

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:

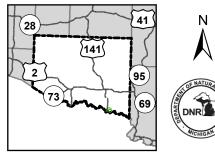
Additional Compartment Information:

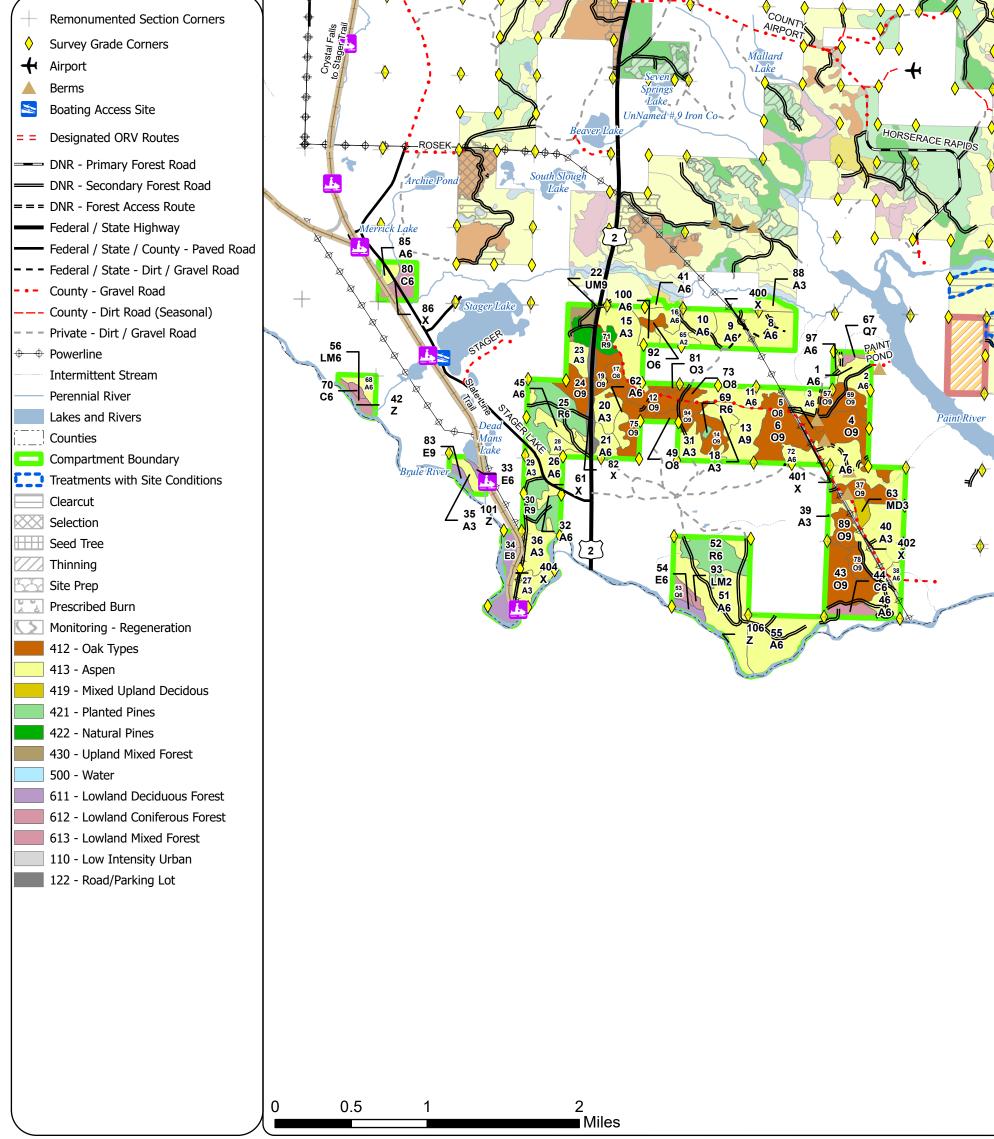
This compartment has had the presence of oak wilt confirmed and has had these areas treated. If other areas of oak wilt are detected, they will be treated.

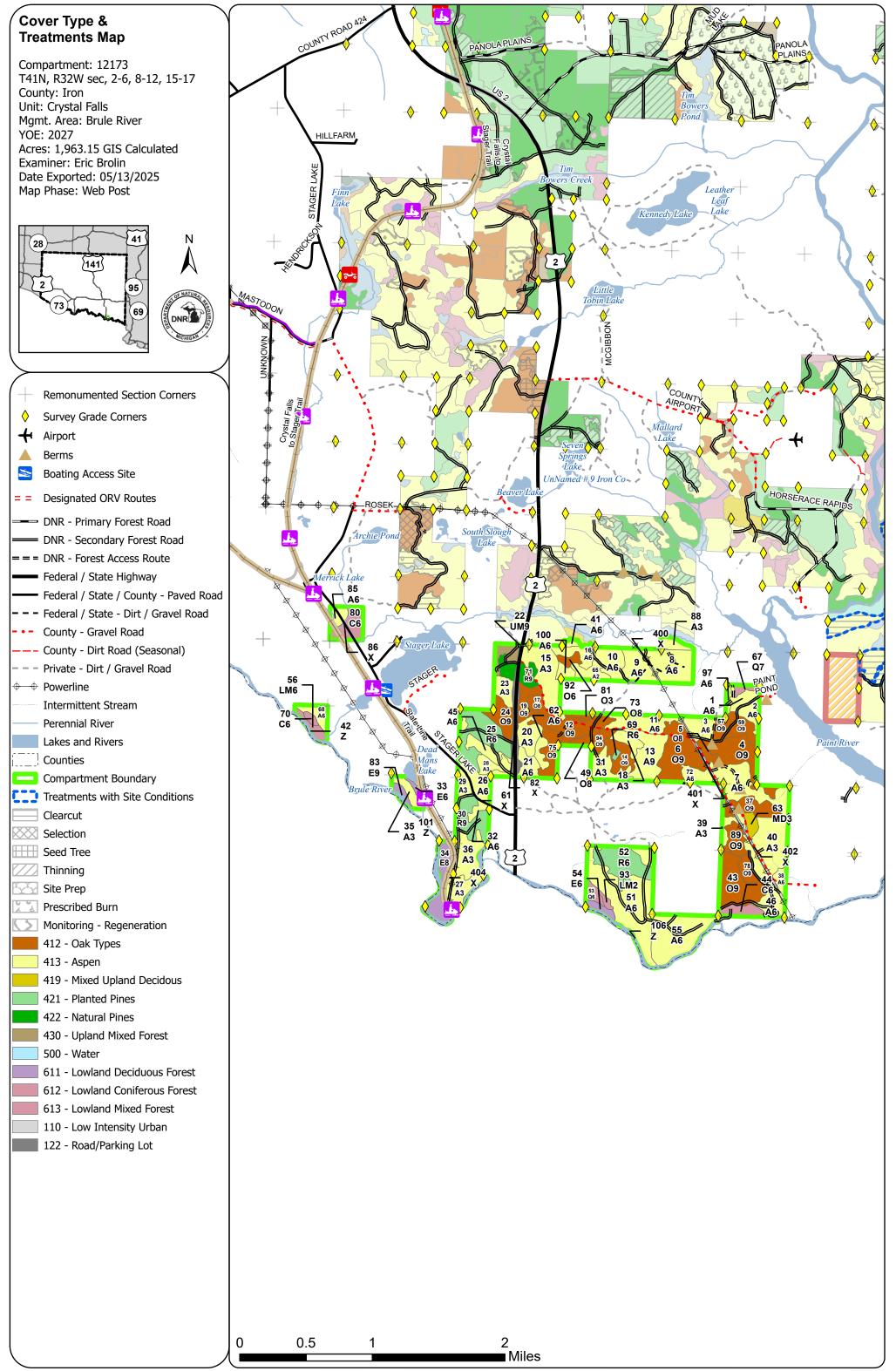
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas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

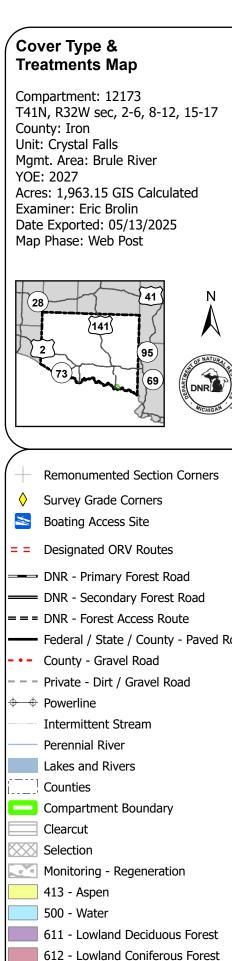
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

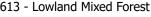
Cover Type &

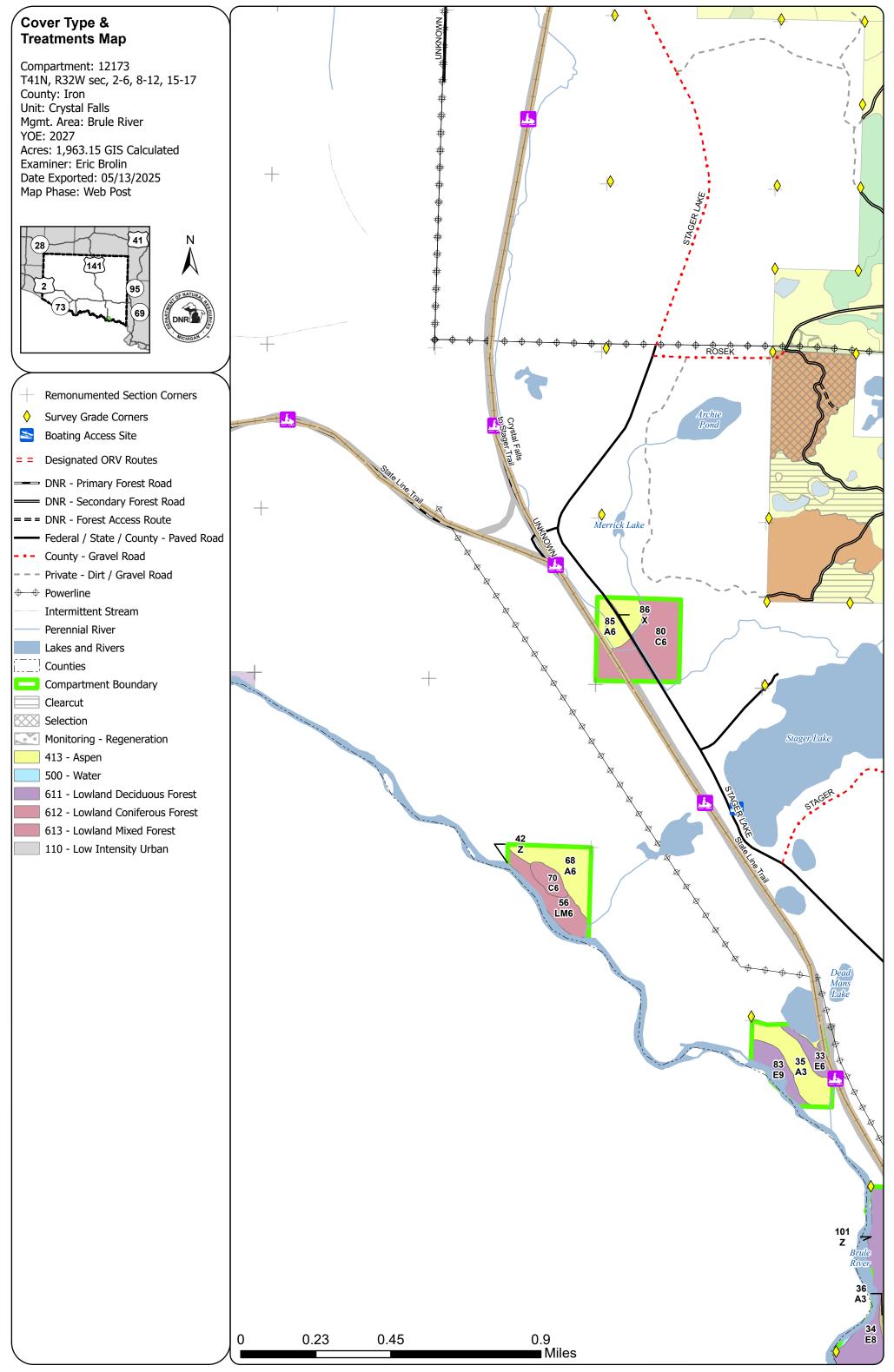




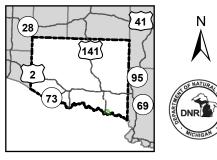




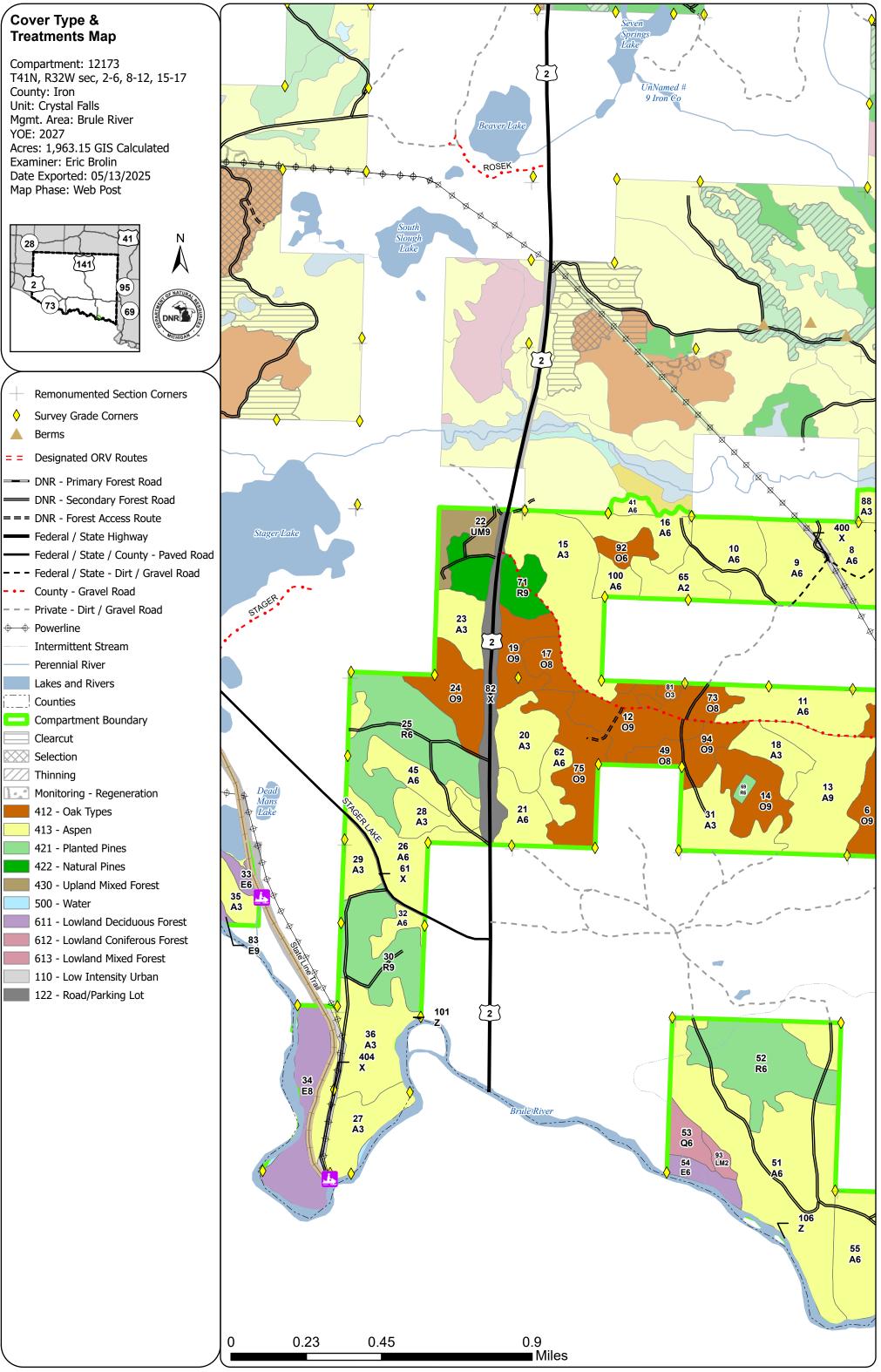


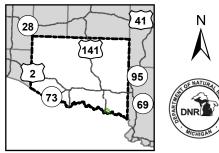


Cover Type &

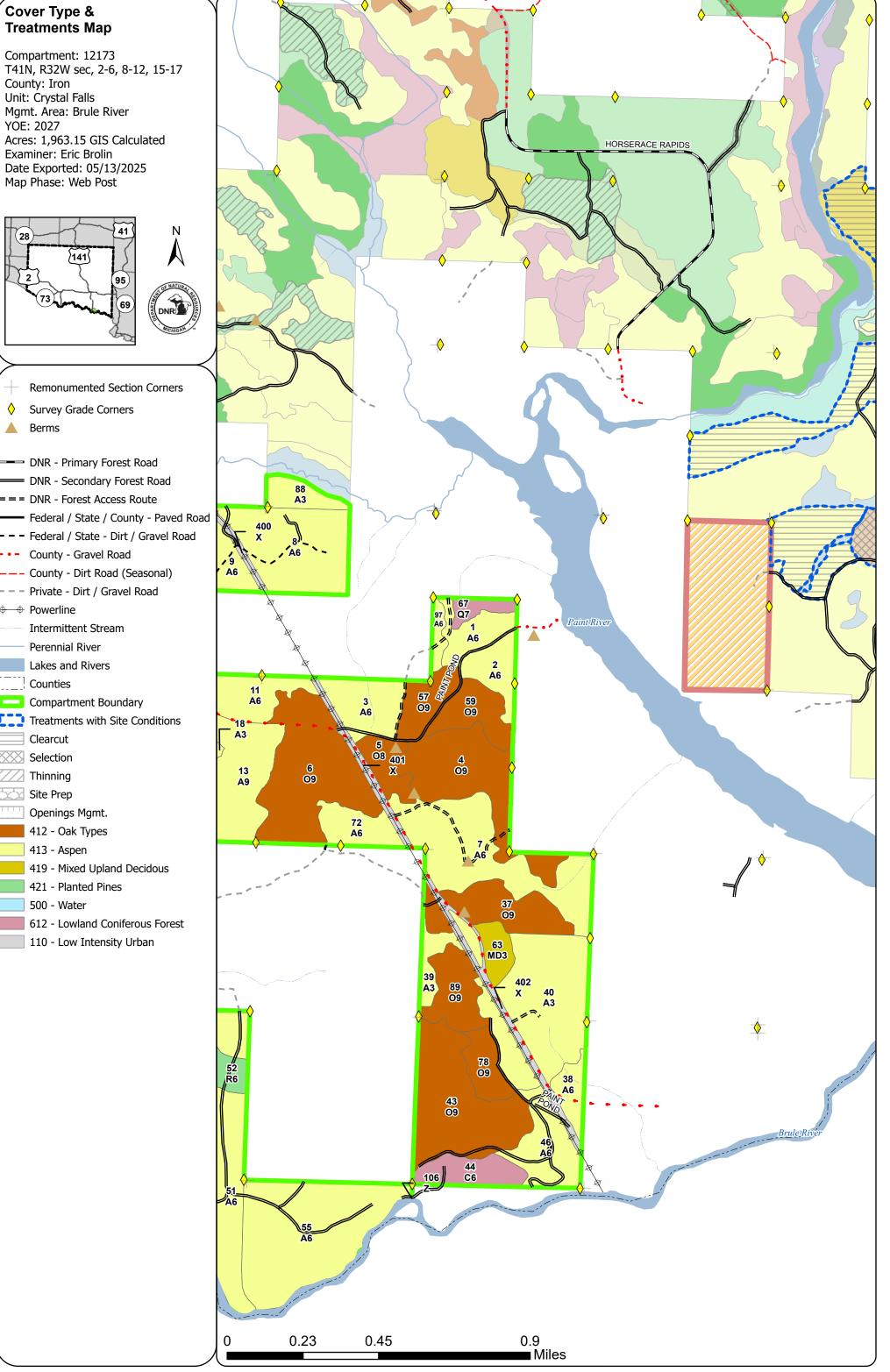


Remonumented Section Corners \diamond Survey Grade Corners Berms Designated ORV Routes = = DNR - Primary Forest Road DNR - Secondary Forest Road = = DNR - Forest Access Route Federal / State Highway County - Gravel Road - - Private - Dirt / Gravel Road + Powerline \oplus Intermittent Stream Perennial River Lakes and Rivers Counties **Compartment Boundary** Clearcut Selection \times Thinning Λ 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



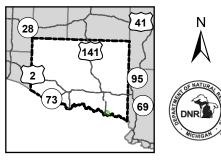




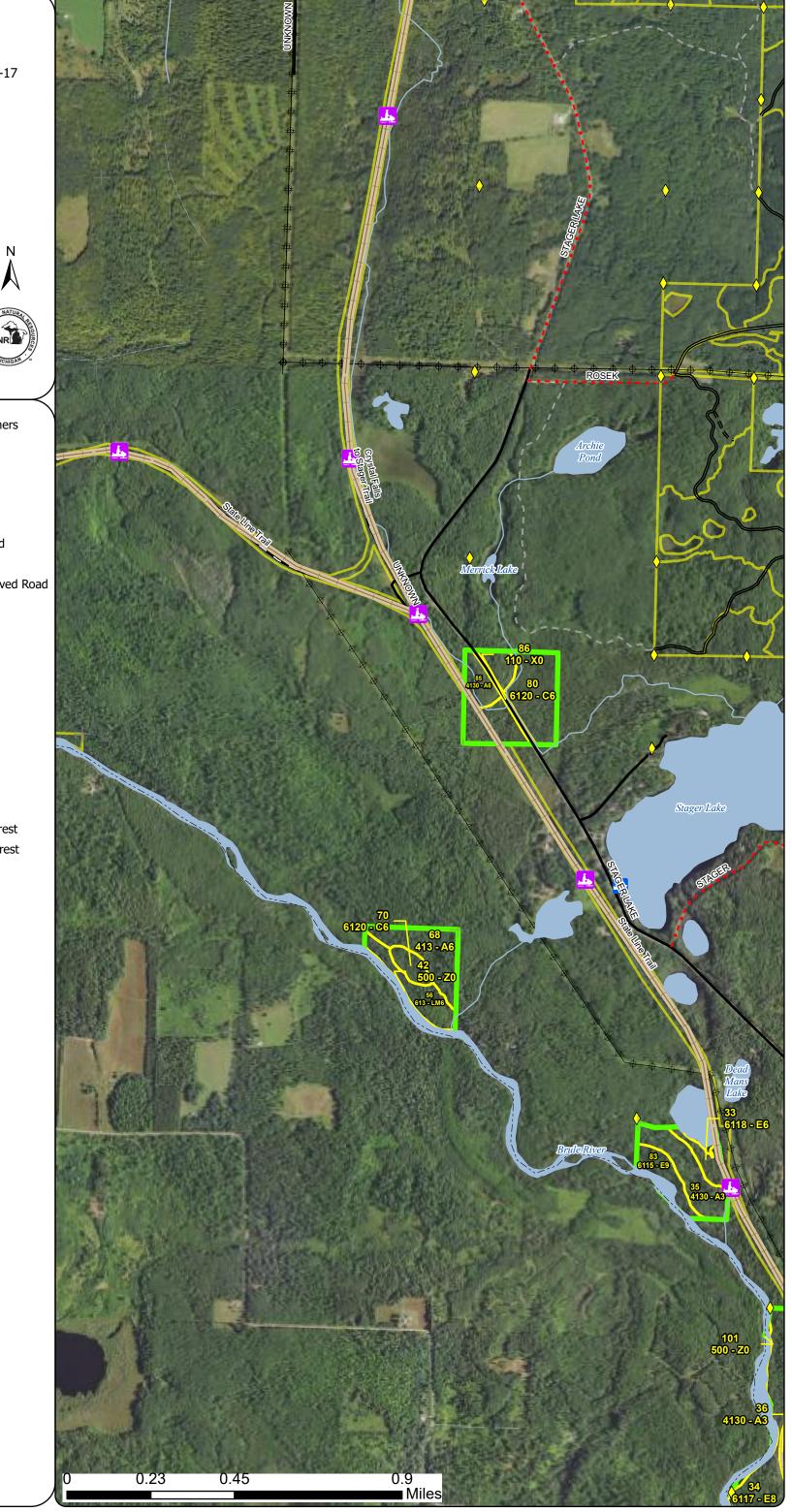


Stand Boundary Map

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: 05/13/2025 Map Phase: Web Post

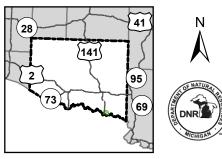


+	Remonumented Section Corners
\diamond	Survey Grade Corners
<i>/</i> /	Boating Access Site
= =	Designated ORV Routes
	DNR - Primary Forest Road
	DNR - Secondary Forest Road
===	DNR - Forest Access Route
	Federal / State / County - Paved R
- • -	County - Gravel Road
	Private - Dirt / Gravel Road
♦	Powerline
	Intermittent Stream
	Perennial River
	Lakes and Rivers
[]	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

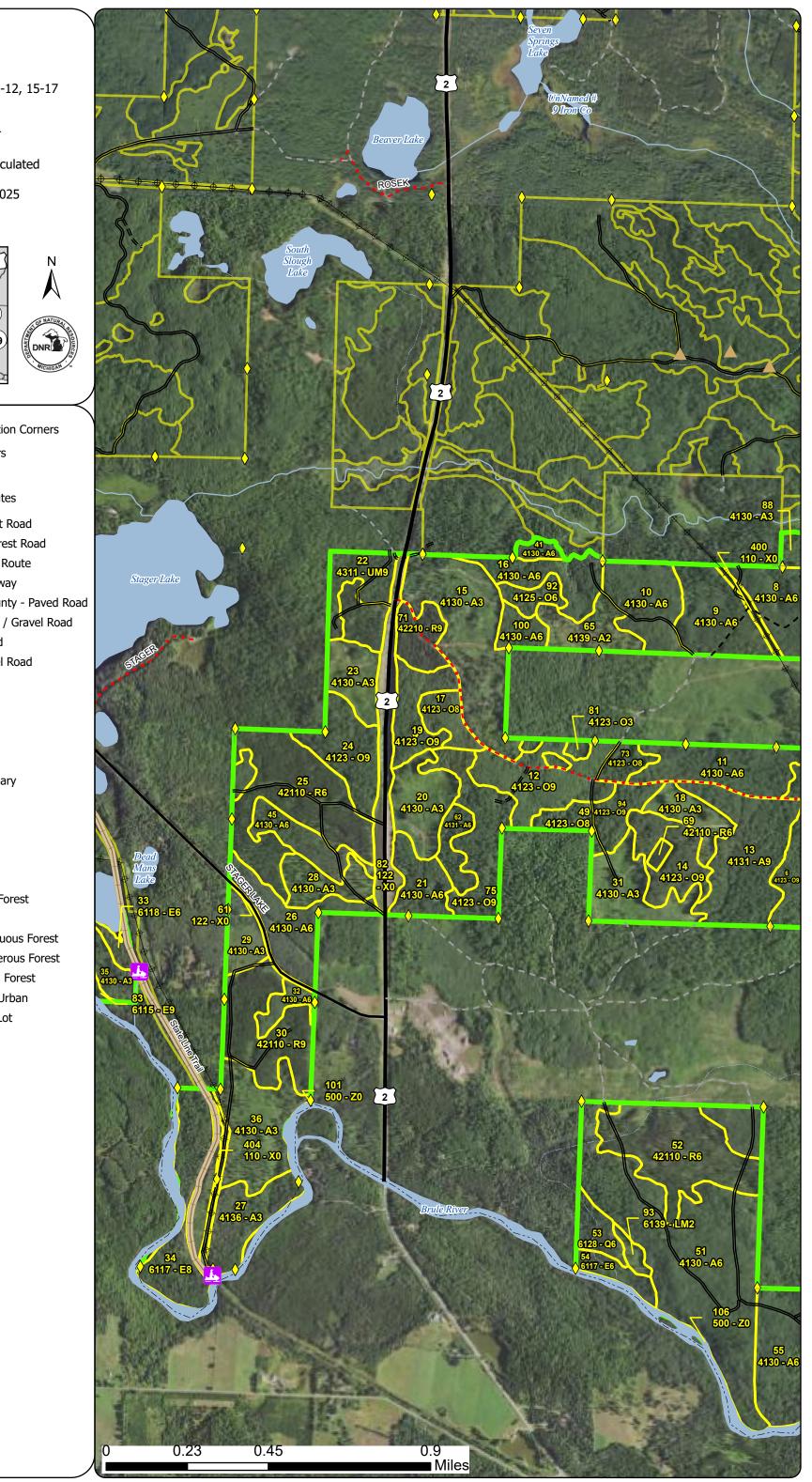


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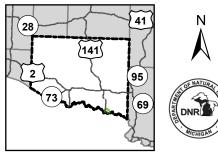


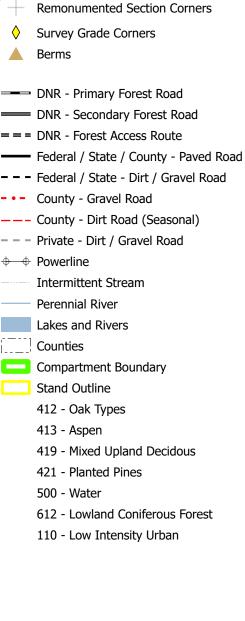
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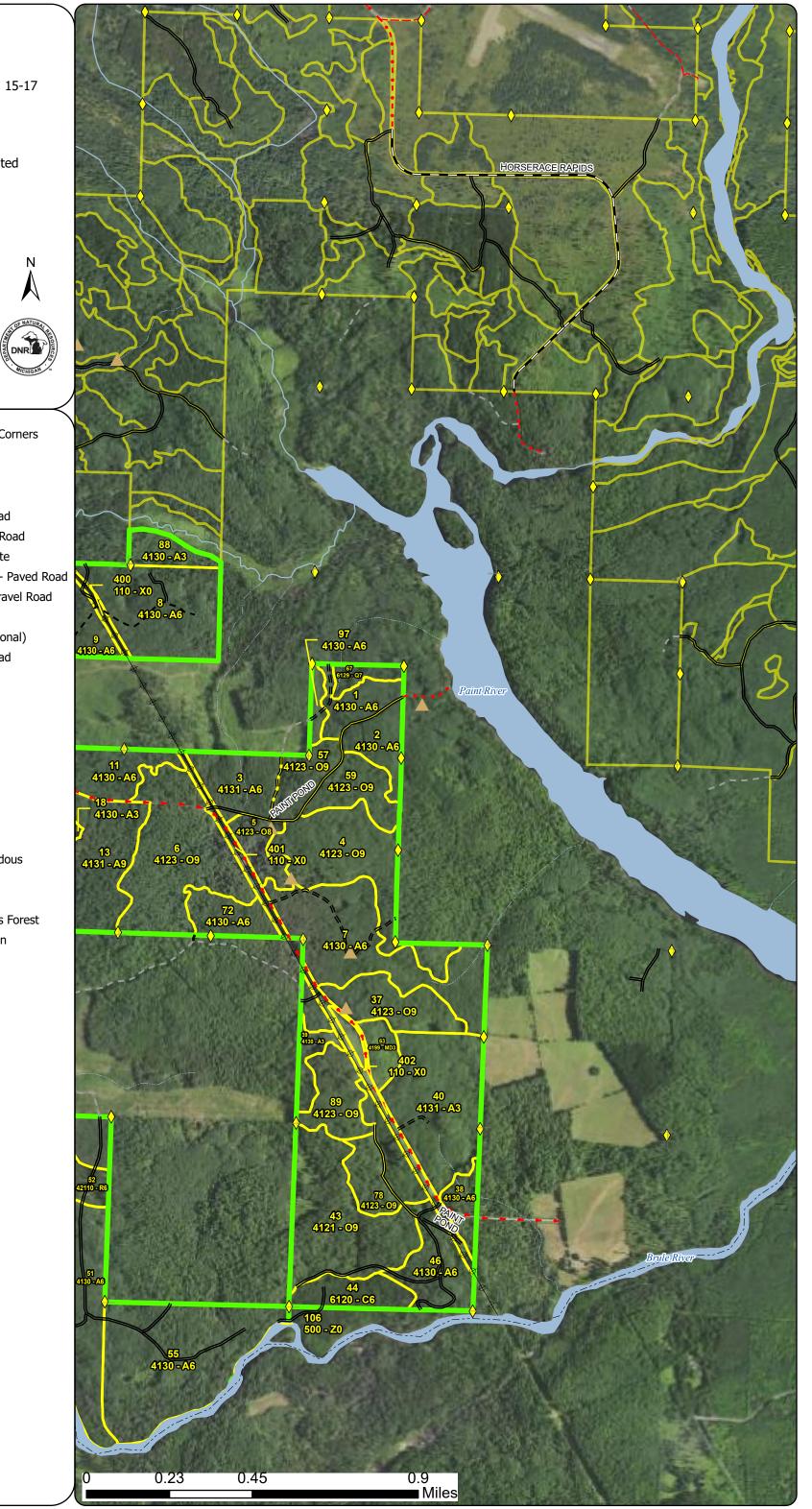


Stand Boundary Map

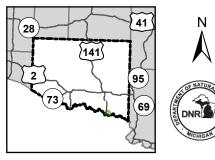
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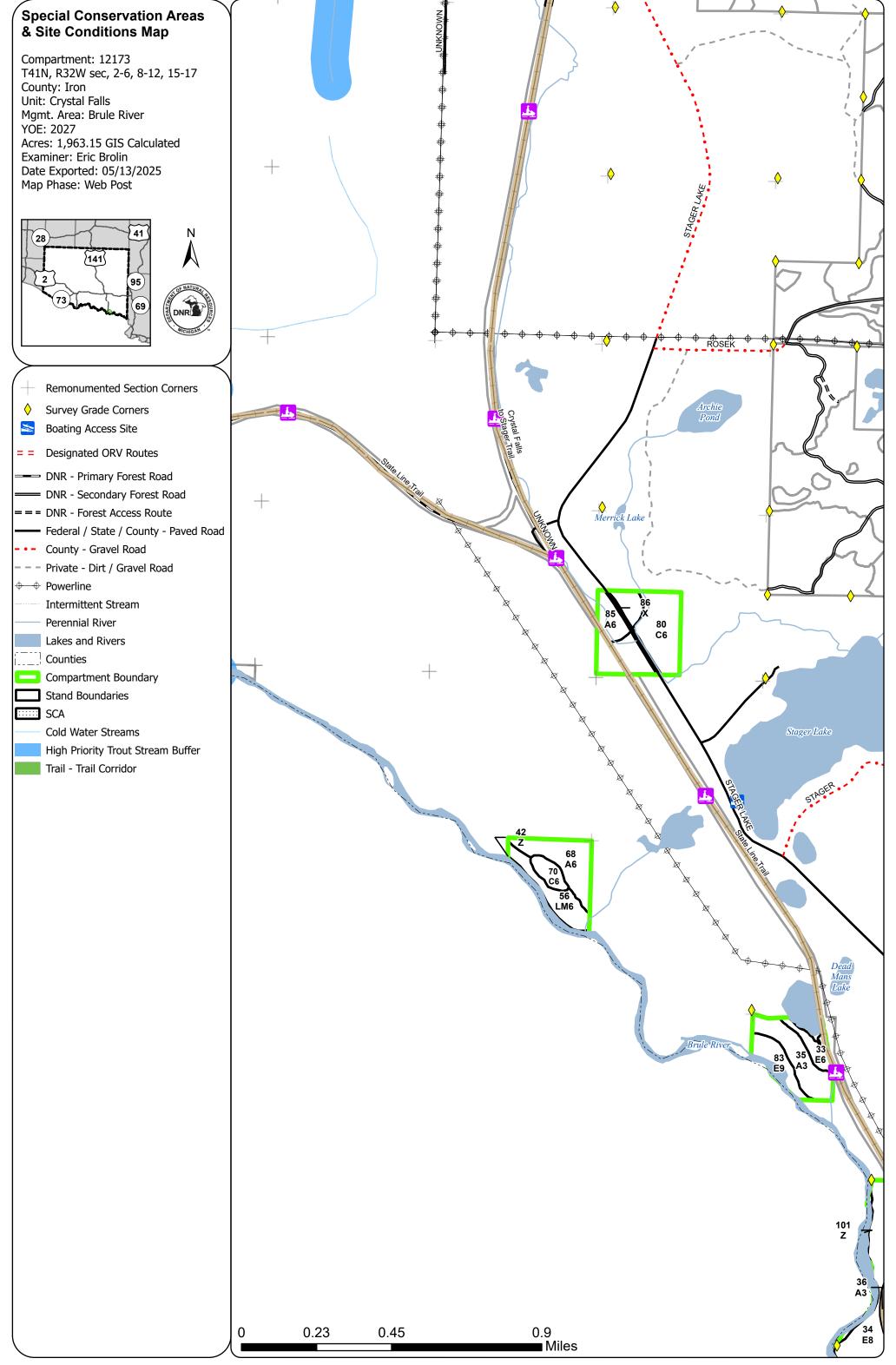
& Site Conditions Map



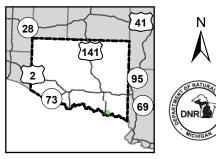
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- -

- - Cold Water Streams



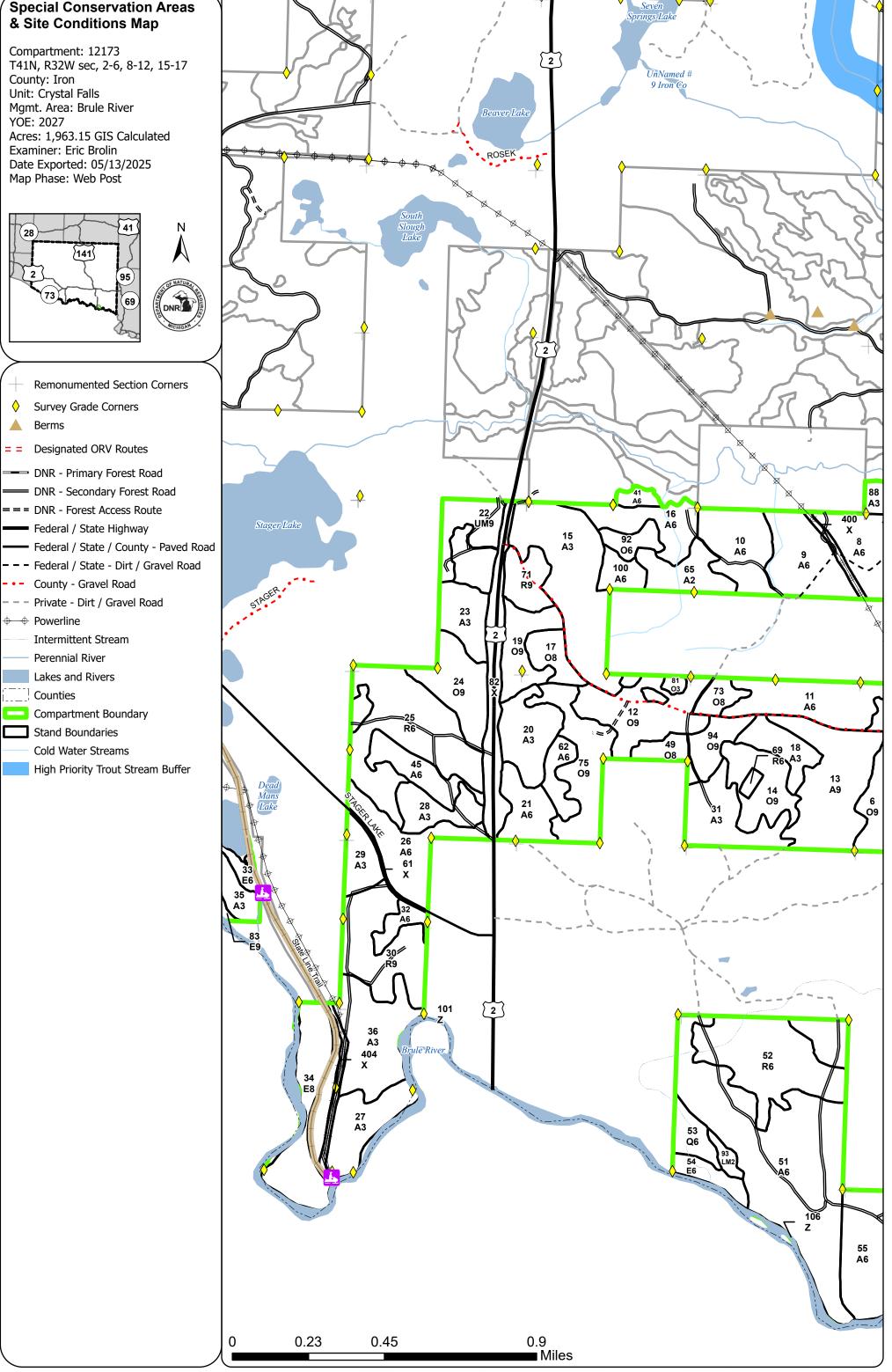
Special Conservation Areas

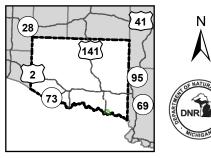


- Survey Grade Corners

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- Cold Water Streams

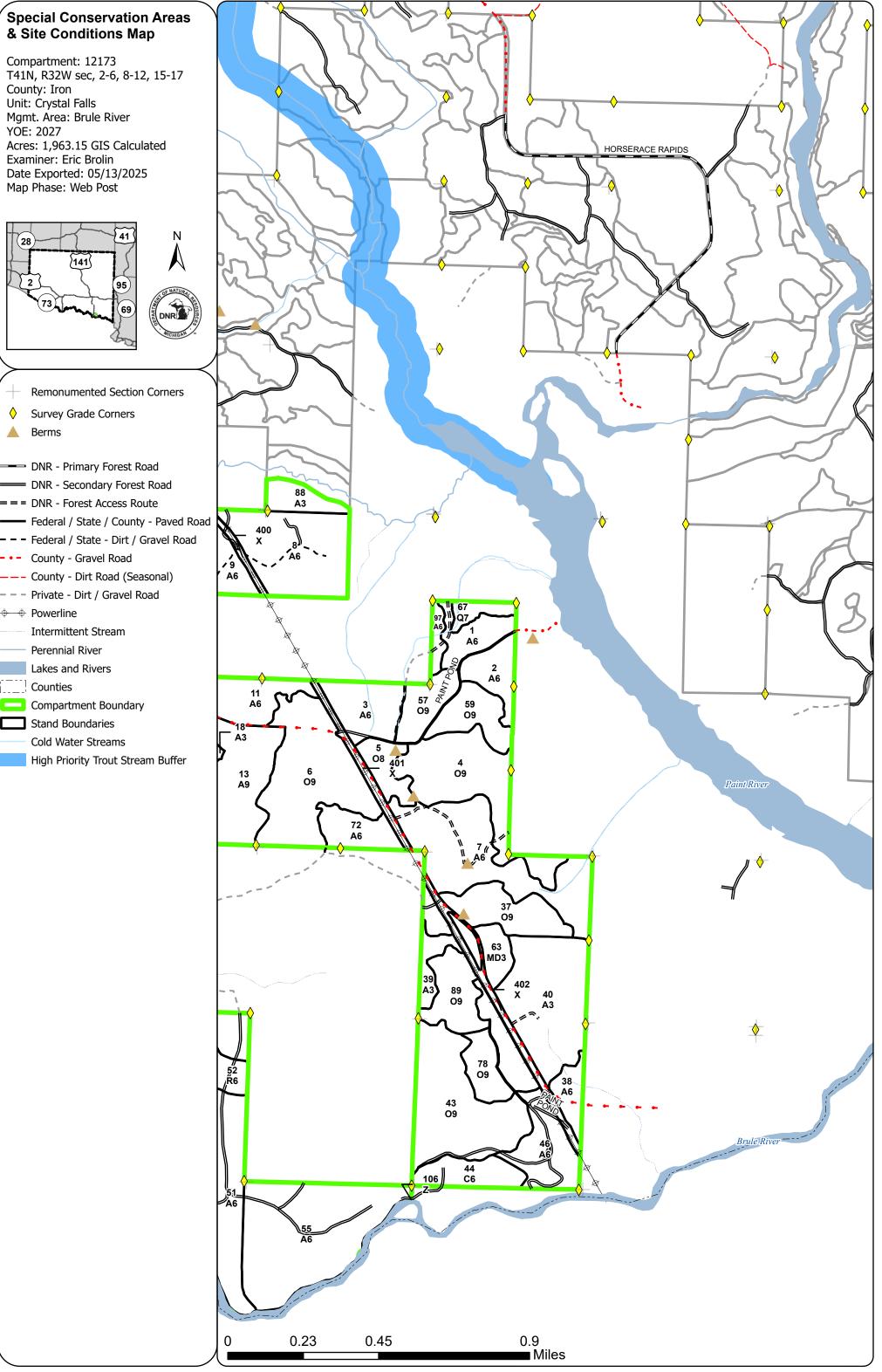




- **Remonumented Section Corners** \diamond Survey Grade Corners

- - -
- ___
- – Private Dirt / Gravel Road

- 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

		KON C	s / 4	\$ \$ \$	P A	3		8	3	R. S.	\$ \$ \$	8 Ju	⁷ a ⁷	<u>ي</u> م	200 - 500 -	27. Ju	DD 2	St rest	AND LOO
Aspen	/ * * 0	246	107	104	175	422	10	15	0	0	0	0	0	0	0		0		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

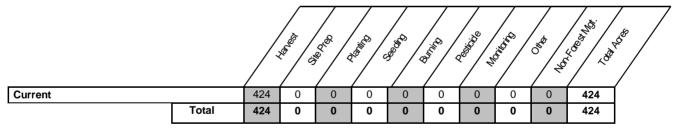


MICHIGAN W	Crystal Falls Mgt. Unit		Compartment	173
- Chid	Year of Entry: 2027	Acres of Harvest	Total Compartment Acres:	1,963
		Commercial Harvest - 424		
		Harvests with Site Condition - 0		
		Next Step Harvest - 0		
		Habitat Cut - 0		

Cover Type by Harvest Method

			Constraint of the second secon	Contraction of the second	to to	and the second	icon con	O CONTRACTOR	Reputer 1	S. S	Ster 1.50	A.C.
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



1 1	and Treatment Name Acres Stand CoverType Size Density Stand Age Range Treatment Type Treatment Method Cover Type Objective Age Structure 94 12173094-Cut 1.5 4123 - Red Oak 9 99 111- 140 Harvest Clearcut 4199 - Other Mixed Upland Deciduous Planting Record Prescription Spects: Harvest all merchantable trees except conifers. Spects: Vertice Verti
94 1.5 4123 · Red Oak 9 99 111- 140 Harvest Clearcut 4199 - Other Mixed Upland Deciduous Planting Record Prescription Specs. Harvest all merchantable trees except conifers. Second	94 12173094-Cut 1.5 4123 - Red Oak 9 9111- 140 Harvest Clearcut 4199 - Other Mixed Upland Deciduous Planting Record Prescription Specs: Harvest all merchantable trees except conifers. Prescription Treatments: Harvest all merchantable trees except conifers. Prescription Treatments: Harvest all merchantable trees except conifers. Prescription Treatments: Acceptable Any combination of the current overstory species. Regen: Other Correct a natural buffer of young mixed regeneration, heavy to aspen, to slow and/or stop spread of adjacent underground oak wilt infect Comment: Interior retention will be left. Include all applicable oak wilt specs. Site Condition: Proposed Start Date: 10/01/2026 10/01/2026 12 12173012-CC 2.5 4123 - Red Oak 9 99 171- 200 Harvest Clearcut 4319 - Mixed Upland Forest Planting Record Prescription Specs: Harvest all merchantable trees except conifers. 9 9 171- 200 Harvest Clearcut 4319 - Mixed Upland Forest Planting Record Prescription Treatments: Harvest all merchantable trees except conifers. 1000 1000 1000 1000
140 Mixed Upland Deciduous Record Deciduous Prescription Specs: Harvest all merchantable trees except conifers. Specs: Next Step. Irreatments: Acceptable Any combination of the current overstory species. Regen: Create a natural buffer of young mixed regeneration, heavy to aspen, to slow and/or stop spread of adjacent underground oak wilt infect Comment: 12 12173012-CC 2.5 4123 - Red Oak 9 99 171. Harvest Clearcut 4319 - Mixed Planting Upland Forest Prescription Treatments: Harvest all merchantable trees except conifers. Specs: Next Step. Record Site Condition: Prescription Upland Forest Harvest all merchantable trees except conifers. Specs: Next Step. See site conditions for small long term retention area. The west 2/3 of the stand will be retained containing healthy mature oak. Comment: Site Condition: Proposed Start Date: 10/01/2025 3 12173003-Cut 21.3 4131 - Aspen, Oak 6 46 111. Harvest Clearcut 4131 - Aspen, Planting Oak Planting Record Prescription Babes: Harvest all merchantable deciduous trees. Leave all conifers. Exclude patches	140 Mixed Upland Deciduous Record Deciduous Prescription Specs: Harvest all merchantable trees except conifers. Next Step. Treatments: Name Acceptable Regen: Any combination of the current overstory species. Other Comment: Create a natural buffer of young mixed regeneration, heavy to aspen, to slow and/or stop spread of adjacent underground oak wilt infect Comment: Site Condition: Preposed Start Date: 10/01/2026 12 12 12173012-CC 2.5 4123 - Red Oak 9 9 200 Harvest Clearcut 4319 - Mixed Upland Forest Prescription Prescription Harvest all merchantable trees except conifers. Specs: Next Step. Treatments:
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<u>Specs:</u> retain mature mast producing oak while creating a vigorous diverse mix of young regeneration. <u>Next Step</u>	
Acceptable Any combination of the current overstory species. Regen:	
Other Patches identified interior are surrounded by dense aspen stocking. A couple of ravines may need to be excluded along the north edge, add to long term stand retention. Include all applicable oak wilt specs for timber sale.	
Site Condition:	Site Condition:
Proposed Start Date: 10/01/2031	

Regen:	52" DBH and larger to 50% white pine with w oxes while planting to ble. 2025	vhite oak m	ix optior	n if availab	le during or after		Cover Type Objective 4310 - Pine, Oak Mix	Age Structure Planting Record	No
Prescription Harvest all trees Specs: Next Step Treatments: Acceptable Acceptable Mixed 50% red/ Regen: Other Other Alternate tree be source is available Site Condition: Site Condition:	52" DBH and larger to 50% white pine with w oxes while planting to ble. 2025	o prep site f vhite oak m	or mixed	140 d pine plar n if availab	nting. ole during or after	initial planting.	Mix	Record	No
Specs: Next Step Treatments: Acceptable Mixed 50% red/s Regen: Other Alternate tree bo Comment: Site Condition:	50% white pine with w oxes while planting to ole. 2025	vhite oak m	ix optior	n if availab	le during or after		bly in open patches		
Treatments: Acceptable Mixed 50% red/s Regen: Alternate tree boots Other Alternate tree boots Comment: source is available Site Condition: Site Condition:	oxes while planting to ble. 2025				-		ibly in open patches		
Regen: Other Alternate tree be Comment: source is available Site Condition:	oxes while planting to ble. 2025				-		ibly in open patches		
<u>Comment:</u> source is available <u>Site Condition:</u>	2025	create a re	d pine /	white pine	e mix. Plant white	e oak within, possi	ibly in open patches		
						••	bly in open pateries,	when funding	and
Proposed Start Date: 10/01/									
17 12173014-OW 16.9	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Prescription Harvest all trees Specs:	2" DBH and larger to	o prep site f	or mixe	d pine plar	nting.				
<u>Next Step</u> <u>Treatments:</u>									
<u>Acceptable</u> Mixed 50% red/ <u>Regen:</u>	50% white pine with w	vhite oak m	ix optior	n if availab	le during or after	initial planting.			
OtherAlternate tree be source is available	oxes while planting to ble.	create a re	d pine /	white pine	e mix. Plant white	e oak within, possi	ibly in open patches,	when funding	and
Site Condition:									
Proposed Start Date: 10/01/	2025								
17 12173012-OW 14.6	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Prescription Harvest to a 2" s	spec to prep site for m	nixed pine p	planting.						
<u>Next Step</u> <u>Treatments:</u>									
Acceptable Mixed pine with Regen:	white oak mix option i	if available	during o	or after initi	ial planting.				
	oxes while planting to ble.	create a re	d pine /	white pine	e mix. Plant white	e oak within, possi	bly in open patches,	when funding	and
Site Condition:									
Proposed Start Date: 10/01/	2025								
17 12173005-OW 8.4	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Prescription Harvest all trees Specs:	2" DBH and larger to	o prep site f	or mixe	d pine plar	nting.				
<u>Next Step</u> Treatments:									
Acceptable Mixed pine with Regen:	white oak mix option i	if available	during o	or after initi	ial planting.				
	oxes while planting to ble.	create a re	d pine /	white pine	e mix. Plant white	e oak within, possi	bly in open patches,	when funding	and
Site Condition:									
Proposed Start Date: 10/01/	2025								

S t	Cı	ystal Fall	s Mgt. Unit		Repoi	rt3 1	reatments		Compartment Year of Entry		DIR NATURAL DIR DIR
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	12173049-OW	5.0	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Pres Spec		t all trees 2	2" DBH and larger to	o prep site f	or mixe	d pine plar	nting.				
<u>Next</u>	<u>Step</u> tments:										
	ptable Mixed &	50% red pi	ne/50% white with v	white oak m	ix optior	n if availab	le during or afte	r initial planting.			
<u>Othe</u>	<u>r</u> Alterna	te tree box is available		create a re	d pine /	white pine	mix. Plant white	e oak within, possi	bly in open patches,	when funding	g and
Site (Condition:										
<u>Prop</u>	osed Start Date:	10/01/20	025								
13	12173013-OW	5.3	4131 - Aspen, Oak	9	34	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Pres</u> Spec		t all trees 2	2" DBH and larger to	o prep site f	or red p	ine plantin	g.				
	<u>Step</u> tments:										
Acce Rege	e <u>ptable</u> Red pir en:	ne									
<u>Othe</u> Com	<u>r</u> No rete <u>ment:</u>	ention due t	to forest health cond	cerns. Inclue	de all ap	plicable o	ak wilt specs for	timber sale.			
<u>Site</u>	Condition:										
Prop	osed Start Date	10/01/20	025								
17	12173059-OW	9.3	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Pres Spec		t all trees 2	2" DBH and larger to	o prep site f	or mixe	d pine plar	nting.				
	<u>Step</u> tments:										
<u>Acce</u> Rege		50% red pi	ne/50% white with v	white oak m	ix optior	n if availab	le during or afte	r initial planting.			
<u>Othe</u> Com		te tree box is available		create a re	d pine /	white pine	mix. Plant white	e oak within, possi	bly in open patches,	when funding	g and
Site (Condition:										
Prop	osed Start Date:	10/01/20	025								
10	12173010-CC	27.8	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Pres</u> Spec			antable trees excep rse mix of species.	ot conifers a	nd oak t	to promote	e aspen regener	ation. Retention sh	nould include large d	liameter, fork	ed crown
	<u>Step</u> tments:										
Acce Rege		mbination	of the current overst	tory species	S.						
<u>Othe</u> Com	<u>r</u> ment:										
Sito	Condition:										
One											

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Report 3 -- Treatments

Compartment: 173 0007 v of Entry



S t	cij		, mgi. offit		Nepol		reatments		Compartmen Year of Entr		DNR MICHIGAN
a n Treatı d Nar		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
8 12173	008-CC	18.7	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Prescription Specs: Next Step Treatments:			antable trees excep n, and a diverse m			ne and oal	k to promote asp	pen regeneration. I	Retention should in	clude large dia	ameter,
Acceptable Regen: Other Comment:	Slope / E	MP exclu	f the current overst sions are estimated wilt specs for timbe	s based off		observatio	ons. These areas	s could change if d	letermined during t	imber sale pre	p. Include
Site Conditio		10/01/20	31								
	007-CC	28.5	4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Prescription Specs:			antable trees excep se mix of species.	t conifers a	and oak t	to promote	e aspen regener	ation. Retention sł	nould include large	diameter, fork	ed crown
<u>Next Step</u> Treatments:											
Regen:			f the current overst								
Other Comment: Site Conditio		II applicat	ble oak wilt specs fo	or timber sa	ale.						
Proposed Sta		10/01/20	25								
6 121730	006-OW	5.4	4123 - Red Oak	9	99	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
Prescription Specs:	Harvest a	all trees 2	DBH and larger to	o prep site t	for red p	ine plantir	ng.				
<u>Next Step</u> Treatments:											
Acceptable Regen:	Red pine										
<u>Other</u> Comment:	No reten	tion due to	o forest health cond	cerns. Inclu	de all ap	plicable o	ak wilt specs for	timber sale.			
Site Conditio											
Proposed St											
6 121730	006-Cut	20.5	4123 - Red Oak	9	99	111- 140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
Prescription Specs:	canopy li future da	ght to rele mage. Cr	oproximately 80 BA ease advanced reg eate approximately forest health conce	eneration. I / five, 1/2 a	mprove cres gap	quality an os (1 per 1	d mark to retain 0 acres) to plan	healthier, stout bra t with white oak ar	anched trees that v nd white pine to inc	vill be more re rease diversity	sistant to
<u>Next Step</u> Treatments:											
Acceptable Regen:	Any com	bination o	f the current overst	tory species	s, includi	ing aspen	and maple.				
<u>Other</u> Comment:			ere advanced reger inge if determined o							ed to reflect so	me of the
Site Conditio	<u>n:</u>										
Proposed Sta	art Date:	10/01/20	25								

S t	С	rystal Fall	s Mgt. Unit		Repo	rt 3 T	Freatments		Compartmen Year of Entry		DRR DRR
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
4	12173004-CC	10.3	4123 - Red Oak	9	99	171- 200	Harvest	Clearcut	4121 - Oak, Aspen	Cutting Record	No
Presc Specs		st all merch	nantable deciduous t	trees. Leave	e all con	ifers. Excl	ude patch along	the south containin	ng mature oak for le	ong term rete	ntion.
<u>Next S</u> Treatr	<u>Step</u> ments:										
Accep Reger		mbination	of the current oversi	tory species	6.						
Other Comn		e all applica	able oak wilt specs f	or timber sa	ale.						
<u>Site C</u>	Condition:										
Propo	sed Start Date	<u>:</u> 10/01/2	025								
17	12173004-OW	2.3	4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Presc Specs		st all trees 2	2" DBH and larger to	o prep site f	for white	e pine plan	ting.				
<u>Next S</u> <u>Treatr</u>	<u>Step</u> ments:										
<u>Accep</u> <u>Reger</u>		pine with w	hite oak mix option	if available	during c	or after init	ial planting.				
<u>Other</u> Comn		vhite pine.	Plant white oak with	iin, possibly	in open	patches,	when funding an	nd source is availab	le.		
Site C	Condition:										
<u>Propo</u>	sed Start Date	<u>:</u> 10/01/2	025								
45	12173045-CC	19.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Presc Specs			nantable trees excep en, and a diverse m			ne and oal	k to promote asp	pen regeneration. F	Retention should inc	clude large dia	ameter,
<u>Next S</u> Treatr	<u>Step</u> ments:										
<u>Accep</u> Reger		mbination	of the current overs	tory species	6.						
<u>Other</u> <u>Comn</u>		nmend sale	e prep during leaf off	f. Include al	l applica	able oak w	ilt specs for timb	ber sale.			
Site C	Condition:										
Propo	sed Start Date	<u>:</u> 10/01/2	026								
92	12173092-Cut	7.7 4	4125 - Black, N. Pin Oak	6	99	111- 140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Cutting Record	No
Presc Specs			nantable trees excep oak or long term ret						e current desirable	advanced re	generation
<u>Next S</u> Treatr	<u>Step</u> ments:										
<u>Accep</u> <u>Reger</u>		mbination	of the current overs	tory species	6.						
Other Comn		aution to no	ot damage current sa	aplings duri	ng timbe	er sale ope	erations. Include	all applicable oak	wilt specs for timbe	r sale.	
	condition:										
Site C	onulion.										

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Report 3 -- Treatments

Compartment: 173

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2									Year of Entry	/: 2027	
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
89 1	2173089-Cut	13.5	4123 - Red Oak	9	99	141- 170	Harvest	Clearcut	4121 - Oak, Aspen	Planting Record	No
<u>Prescri</u> <u>Specs:</u>			antable trees excep esent to create a mo							aspen and m	ixed
<u>Next St</u> Treatm											
<u>Accepta</u> <u>Regen:</u>	•	mbination	of the current overs	tory specie	es.						
<u>Other</u> Comme		ent layer is	s an estimate and m	ay change	. Include	all applic	able oak wilt spe	ecs for timber sale.			
Site Co	ondition:										
Propos	sed Start Date:	10/01/2	025								
75 1	2173075-Cut	7.5	4123 - Red Oak	9	99	111- 140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescri</u> Specs:	•	t all merch	antable trees excep	t conifers.	Do not le	eave any i	nterior oak trees	or retention.			
<u>Next St</u> Treatm											
<u>Accept</u> Regen:	•	mbination	of the current overst	ory specie	S.						
<u>Other</u> Comme		g-term rete	ention due to interior	and/or adj	acent for	rest health	o concerns. Inclu	de all applicable o	ak wilt specs for tim	iber sale.	
Site Cc	ondition:										
Dropos											
FTOPOS	sed Start Date:	10/01/2	026								
	12173072-CC	10/01/2	026 4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
72 1	12173072-CC	15.4 t all merch				140				Record	
72 1 Prescri	iption Harvesi aspen, tep	15.4 t all merch	4130 - Aspen antable trees excep			140				Record	
72 1 Prescri Specs: Next St Treatm	iption Harvesi aspen, Harvesi tep Harvesi hents: Harvesi	15.4 t all merch and a dive	4130 - Aspen antable trees excep	t conifers a	and oak t	140				Record	
72 1 Prescri Specs: Next St Treatm Accepts	12173072-CC iption Harvest aspen, tep tents: table Any cor include	15.4 t all merch and a dive	4130 - Aspen antable trees excep erse mix of species.	t conifers a	and oak t s.	140				Record	
72 1 <u>Prescrit</u> <u>Specs:</u> <u>Next St</u> <u>Treatm</u> <u>Accept:</u> <u>Regen:</u> <u>Other</u> <u>Comme</u>	12173072-CC iption Harvest aspen, tep tents: table Any cor include	15.4 t all merch and a dive	4130 - Aspen antable trees excep rrse mix of species. of the current overst	t conifers a	and oak t s.	140				Record	
72 1 <u>Prescrii</u> <u>Specs:</u> <u>Next St</u> <u>Treatm</u> <u>Accepta</u> <u>Regen:</u> <u>Other</u> <u>Commen</u> <u>Site Co</u>	12173072-CC iption Harvesi aspen, tep hents: iable Any cor include ent:	15.4 t all merch and a dive mbination all applica	4130 - Aspen antable trees excep rrse mix of species. of the current overst able oak wilt specs fo	t conifers a	and oak t s.	140				Record	No ed crown
72 1 <u>Prescrip</u> <u>Specs:</u> <u>Next St</u> <u>Treatm</u> <u>Accepta</u> <u>Regen:</u> <u>Other</u> <u>Comma</u> <u>Site Co</u> <u>Propos</u>	12173072-CC iption Harves: aspen, tep hents: table Any cor include ent: pndition:	15.4 t all merch and a dive mbination all applica	4130 - Aspen antable trees excep rrse mix of species. of the current overst able oak wilt specs fo	t conifers a	and oak t s.	140				Record	ed crown
72 1 <u>Prescrii</u> <u>Specs:</u> <u>Next St</u> <u>Treatm</u> <u>Accept:</u> <u>Regen:</u> <u>Other</u> <u>Comme</u> <u>Site Co</u> <u>Propos</u> 17 12	12173072-CC iption Harvest aspen, tep hents: table Any cor include ent: ondition: sed Start Date: 2173037-OW iption Harvest	15.4 t all merch and a dive mbination all applica . 10/01/2 5.7	4130 - Aspen antable trees excep erse mix of species. of the current overst able oak wilt specs fo	t conifers a cory specie: or timber sa	and oak t s. ale. 99	140 to promote 111- 140	e aspen regener Harvest	ation. Retention sl	nould include large of 4310 - Pine, Oak	Record diameter, fork Planting	
72 1 Prescrii Specs: Next St Treatm Accepta Regen: Other Comme Site Co Propos 17 1: Prescrii	12173072-CC iption Harvest aspen, tep aspen, tep Include include Include ent: Include ondition: Sed Start Date: 2173037-OW Includes iption Harvest iption Harvest	15.4 t all merch and a dive mbination all applica . 10/01/2 5.7	4130 - Aspen antable trees excep erse mix of species. of the current overst able oak wilt specs for 025 4123 - Red Oak	t conifers a cory specie: or timber sa	and oak t s. ale. 99	140 to promote 111- 140	e aspen regener Harvest	ation. Retention sl	nould include large of 4310 - Pine, Oak	Record diameter, fork Planting	ed crown
72 1 Prescrit Specs: Next St Treatm Accept: Regen: Other Commo Site Co Propos 17 1: Prescrit Specs: Next St	I2173072-CC iption Harvess aspen, tep hents: able Any cor Include ent: pondition: sed Start Date: 2173037-OW iption Harvess tep hents: tep hents: able Mixed 5	15.4 t all merch and a dive mbination all applica . 10/01/20 5.7 t all trees 2	4130 - Aspen antable trees excep erse mix of species. of the current overst able oak wilt specs for 025 4123 - Red Oak	t conifers a cory species or timber sa 8 o prep site	and oak t s. ale. 99 for mixed	140 to promote 111- 140 d pine pla	e aspen regener Harvest nting.	ation. Retention sl	nould include large of 4310 - Pine, Oak	Record diameter, fork Planting	ed crown
72 1 Prescrii Specs: Next St Treatm Accept: Regen: Other Comme Site Co Propos 17 1: Prescrii Specs: Next St Treatm Accept: Accept: Site Co Propos	I2173072-CC iption Harvess aspen, tep lents: able Any cor Include ent: ondition: sed Start Date: 2173037-OW iption Harvess tep lents: table Mixed 5 Alternat	15.4 t all merch and a dive mbination all applica . 10/01/2 5.7 t all trees 2	4130 - Aspen antable trees excep orse mix of species. of the current overst able oak wilt specs for 025 4123 - Red Oak 2" DBH and larger to ine/50% white with v	t conifers a tory specie: for timber site 8 o prep site white oak m	and oak t s. ale. 99 for mixed nix optior	140 to promote 111- 140 d pine pla	e aspen regener Harvest nting.	ation. Retention sl Clearcut	4310 - Pine, Oak Mix	Record diameter, fork Planting Record	ed crown
72 1 Prescrii Specs: Next St Treatm Accept: Regen: Other Common Site Co Propos 17 1: Prescrii Specs: Next St Treatm Accept: Regen: Other Common Site Co Propos 17 1: Prescrii Specs: Next St Treatm Accept: Specs: Other Common Site Co Propos 0 Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Treatm Common Specs: Next St Common Specs: Next St Common Specs: Next St Common Specs: Next St Common Specs: Other Common Specs: Next St Common Specs: Other Common Specs: Other Common Specs: Next St Common Specs:	I2173072-CC iption Harvess aspen, tep lents: able Any cor Include ent: ondition: sed Start Date: 2173037-OW iption Harvess tep lents: table Mixed 5 Alternat	15.4 t all merch and a dive mbination all applica . 10/01/2 5.7 t all trees 2 50% red pi te tree box	4130 - Aspen antable trees excep orse mix of species. of the current overst able oak wilt specs for 025 4123 - Red Oak 2" DBH and larger to ine/50% white with v	t conifers a tory specie: for timber site 8 o prep site white oak m	and oak t s. ale. 99 for mixed nix optior	140 to promote 111- 140 d pine pla	e aspen regener Harvest nting.	ation. Retention sl Clearcut	4310 - Pine, Oak Mix	Record diameter, fork Planting Record	ed crown

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Report 3 -- Treatments

Compartment: 173



S t	C	rystal Falls	s Mgt. Unit		керо	rt 3	l reatments		Compartmen Year of Entr		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habit Cut
51	12173051-CC	57.9	4130 - Aspen	6	44	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Spec</u> <u>Next</u> Treat	<u>s:</u> aspen, <u>Step</u> ments:	and a dive	antable trees excep rse mix of species. of the current overs	Mark to lea	ve one r	to promote mature ha	e aspen regener rdwood tree per	ation. Retention sh acre while cruisinç	ould include large g if present where l	diameter, fork leave trees are	ed crown e not foun
Rege Othe	<u>n:</u> Exclusi	on along th	e Brule River is an nclude all applicable	estimate fro	om steej			ge if determined d	uring timber sale p	rep but will stil	l hold the
	Condition:										
Prop	osed Start Date	<u>:</u> 10/01/20)26								
97	12173097-CC	4.8	4130 - Aspen	6	46	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Preso Spec		t all merch	antable trees excep	ot conifers a	nd oak t	to promote	e aspen regener	ation.			
	<u>Step</u> ments:										
Acce Rege		mbination o	of the current overs	story species	3.						
<u>Othe</u> Com	<u>nent:</u>	g term retei	ntion due to small a	and narrow s	stand siz	ze.					
Site (Condition:										
Prop	osed Start Date	<u>:</u> 10/01/20)31								
41	12173041-CC	3.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Prese Spec		t all merch	antable trees excep	ot conifers a	nd oak t	to promote	e aspen regener	ation.			
_	<u>Step</u> ments:										
<u>Acce</u> Rege		mbination o	of the current overs	story species	3.						
<u>Othe</u> Com	<u>nent:</u>	g term reter	ntion due to small s	stand size.							
Site (Condition:										
Prop	osed Start Date	: 10/01/20)25								
38	12173038-CC	8.4	4130 - Aspen	6	47	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	N
Preso Spec		t all merch	antable trees excep	ot conifers a	nd oak t	to promote	e aspen regener	ation.			
	<u>Step</u> ments:										
<u>Acce</u> Rege	• •	mbination o	of the current overs	tory species	8.						
Othe		g-term rete	ntion due to small s	size. Include	all appl	icable oak	wilt specs for til	mber sale.			
Com	nont.										
Com	Condition:										

t	ŭ	rystal Falls	s Mgt. Unit		Repor	t3 1	Freatments		Compartment Year of Entry		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
32	12173032-CC	6.9	4130 - Aspen	6	48	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
Pres Spec		st all mercha	antable trees excep	ot conifers a	nd oak t	o promote	e aspen regener	ation.			
	<u>Step</u> tments:										
Acce Rege		mbination c	of the current oversi	tory species	6.						
Othe		ention due t	o small size. Includ	e all applica	able oak	wilt specs	for timber sale.				
Site	Condition:										
Prop	osed Start Date	<u>e:</u> 10/01/20	026								
25	12173025- Selection	59.0 4	2110 - Planted Rec Pine	6	62	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
Pres Spec			rage 120 BA. Focu t harvest. Leave all				moving suppress	sed trees. Exclude	e more open areas th	nat contain de	ense aspe
	<u>Step</u> tments:										
Acce Rege	p <u>table</u> Red p en:	ne									
Othe							r exclude less d	ense areas if on a	in edge, avoid marki	ng in, or lightly	y thin if
		d. Include a	ll applicable oak wil	It specs for	timber s	ale.					
Site	Condition:										
	osod Start Date	. 10/01/20	126								
Prop	osed Start Date			0	00	111	Llon voot	Clearaut	1210 Dine Ook	Dianting	No
Prop	osed Start Date		026 4123 - Red Oak	8	99	111- 140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
Prop 17 Pres	12173078-OW	2.7				140		Clearcut		•	Nc
Prop 17 Pres Spec Next	12173078-OW	2.7	4123 - Red Oak			140		Clearcut		•	No
Prop 17 Pres Spec Next Trea	12173078-OW <u>cription</u> Harves <u>s:</u> <u>Step</u> <u>tments:</u> <u>ptable</u> Mixed	2.7 St all trees 2	4123 - Red Oak	o prep site f	or mixed	140 d pine plar	nting.			•	Να
Prop 17 Pres Spec Next Trea Acce Rege Othe	12173078-OW cription Harver s: Step tments: thethe Mixed an:	2.7 st all trees 2 50% red pir	4123 - Red Oak " DBH and larger to	o prep site f white oak m	or mixed	140 d pine plar n if availab	nting. le during or afte	r initial planting.	Mix	•	No
Prop 17 Press Spec Next Trea Acce Rege Othe Com	12173078-OW cription Harves ss: Step tments: Harves uptable Mixed n: Plant v	2.7 st all trees 2 50% red pir	4123 - Red Oak " DBH and larger to ne/50% white with v	o prep site f white oak m	or mixed	140 d pine plar n if availab	nting. le during or afte	r initial planting.	Mix	•	Nc
Prop 17 Pres Spec Next Trea Accee Rege Othe Com Site	12173078-OW cription Harves ss: Harves Step Harves tments: Harves sptable Mixed ment: Plant with	2.7 2.7 50% red pir vhite pine. F	4123 - Red Oak " DBH and larger to ne/50% white with v Plant white oak with	o prep site f white oak m	or mixed	140 d pine plar n if availab	nting. le during or afte	r initial planting.	Mix	•	No
Prop 17 Press Spec Next Trea Accee Rege Othe Com Site Prop	12173078-OW cription Harves is: Step tments: Harves interpretable Mixed r Plant with the second s	2.7 2.7 50% red pir vhite pine. F	4123 - Red Oak " DBH and larger to ne/50% white with v Plant white oak with	o prep site f white oak m	or mixed	140 d pine plar n if availab	nting. le during or afte	r initial planting.	Mix	•	
Prop 17 Press Spec Next Trea Accee Rege Othe Com Site Prop 17 Pres	12173078-OW cription Harves ss: Step tments: Mixed optable Mixed r Plant w ment: Condition: osed Start Date 12173075-OW cription Harves	2.7 2.7 50% red pir 50% red pir white pine. F 2. 10/01/20 1 6.8 st all trees 2	4123 - Red Oak " DBH and larger to ne/50% white with v Plant white oak with 025 4123 - Red Oak	o prep site f white oak m in, possibly	for mixed ix optior in open 99	140 d pine plar n if availab patches, n 111- 140	nting. le during or afte when funding an Harvest	r initial planting. Id source is availa Clearcut	Mix ble. 4310 - Pine, Oak	Planting Record	No
Prop 17 Press Spec Next Trea Acce Rege Othe Com Site Prop 17 Press Spec Next Next	12173078-OW cription Harves ss: Step tments: Mixed optable Mixed r Plant w ment: Condition: osed Start Date 12173075-OW cription Harves	2.7 2.7 50% red pir 50% red pir white pine. F 2. 10/01/20 1 6.8 st all trees 2	4123 - Red Oak " DBH and larger to ne/50% white with v Plant white oak with 025 4123 - Red Oak	o prep site f white oak m in, possibly	for mixed ix optior in open 99	140 d pine plar n if availab patches, n 111- 140	nting. le during or afte when funding an Harvest	r initial planting. Id source is availa Clearcut	Mix ble. 4310 - Pine, Oak Mix	Planting Record	No
Prop 17 Press Spec Next Trea Accee Regge Othe Com Site · Prop 17 Press Spec Next Trea Accee Accee Regge	12173078-OW cription Harves ss: Harves Step Harves tments: Harves tments: Plant w condition: Harves condition: Harves osed Start Date Harves cription Harves ss: Harves Step Harves ss: Harves step Harves step Harves step Harves step Harves Step Harves Step Harves Mixed Harves	2.7 2.7 50% red pir 50% red pir white pine. F 2. 10/01/20 4. 6.8 st all trees 2 ty.	4123 - Red Oak " DBH and larger to ne/50% white with v Plant white oak with 025 4123 - Red Oak	o prep site f white oak m in, possibly 8 o prep site f	ix optior in open 99	140 d pine plar n if availab patches, n 111- 140 d pine plar	nting. le during or afte when funding an Harvest nting. If available	r initial planting. Id source is availa Clearcut e, exclude patches	Mix ble. 4310 - Pine, Oak Mix	Planting Record	No
Prop 17 Press Spec Next Trea Accee Regge Othe Com Site I Prop 17 Press Spec Next Trea Accee Regge 0 Com Dress Spec Com Dress Dress	12173078-OW cription Harves ss: Step step Mixed sptable Mixed grable Mixed ment: Plant w Condition: Osed Start Date Osed Start Date diversi Step Harves scription Harves Step Harves	2.7 2.7 st all trees 2 50% red pir white pine. F <u>10/01/20</u> 6.8 st all trees 2 ty. 50% red pir	4123 - Red Oak " DBH and larger to he/50% white with w Plant white oak with 225 4123 - Red Oak " DBH and larger to he/50% white with w	o prep site f white oak m in, possibly 8 o prep site f white oak m	ix optior in open 99 for mixed ix optior	140 d pine plar n if availab patches, n 111- 140 d pine plar n if availab	le during or afte when funding an Harvest hting. If available	r initial planting. Id source is availa Clearcut e, exclude patches r initial planting.	Mix ble. 4310 - Pine, Oak Mix	Record Planting Record plings to retain	No n for
Prop 17 Press Spec Next Trea Accee Rege Othe Com Site 1 Press Spec 17 Press Spec Com 0the 0the	12173078-OW cription Harves ss: Step step Mixed sptable Mixed grable Mixed ment: Plant w Condition: Osed Start Date Osed Start Date diversi Step Harves scription Harves Step Harves	2.7 2.7 50% red pir 50% red pir white pine. F 2. 2.7 50% red pir 6.8 st all trees 2 ty. 50% red pir ate tree box	4123 - Red Oak " DBH and larger to he/50% white with w Plant white oak with 225 4123 - Red Oak " DBH and larger to he/50% white with w	o prep site f white oak m in, possibly 8 o prep site f white oak m	ix optior in open 99 for mixed ix optior	140 d pine plar n if availab patches, n 111- 140 d pine plar n if availab	le during or afte when funding an Harvest hting. If available	r initial planting. Id source is availa Clearcut e, exclude patches r initial planting.	Mix ble. 4310 - Pine, Oak Mix s with pure aspen say	Record Planting Record plings to retain	Nc n for

S t a	С	rystal Falls	s Mgt. Unit		Repor	rt3 ⁻	Freatments		Compartmen Year of Entry		DNR MICHIGAN
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
69	12173069- RowThin	2.04	2110 - Planted Red Pine	6	42	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Specs</u> Next S Treatr	<u>step</u> <u>nents:</u> p <u>table</u> Red pi	·	arvest approximatel	y 1/3 of the	e stand o	creating r	ows as needed f	or operability.			
<u>Other</u> Comn	Rows	may be nar	row or non-existent.	Mark rows	for ope	rability. In	clude all applica	ble oak wilt specs f	or timber sale.		
	ondition: sed Start Date	<u>e:</u> 10/01/20	025								

Total Treatment 0 Acreage Proposed:

-

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	DR MATERIA
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	ad 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	ound, 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.				

	-	l Falls Mgt. Unit Brolin: Examiner		Report 4 – Site Co	nditions	Compartment: 173 Year of Entry: 2027	NTT NATURAL
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	n for Stand 51.		
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
	Commontos						
	Comments: Stand was thinned	in 2020.					
		in 2020. 2F: Too steep	24	3J: Water quality/BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
14	Stand was thinned Unavailable Comments:	2F: Too steep In for 100' river buffer and inope		(stream, river, or lake)	_		
14	Stand was thinned Unavailable Comments: Estimated exclusio	2F: Too steep In for 100' river buffer and inope		(stream, river, or lake)	_		
14	Stand was thinned Unavailable Comments: Estimated exclusio least a 100' river b Available Comments:	2F: Too steep 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
14	Stand was thinned Unavailable Comments: Estimated exclusio least a 100' river b Available Comments:	2F: Too steep on for 100' river buffer and inoper 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



Unspecified

Unspecified

Unspecified

Unspecified

Unspecified

Unspecified

Unspecified

Eric Brolin: Examiner Unspecified Unavailable **5E: Long-Term Retention** Unspecified Unspecified 1 Comments: Healthy oak on a high elevation hump. Part of long term retention for Stand 75. **5E: Long-Term Retention** Unspecified Unspecified Unspecified Unavailable 1 Comments: Long term retention for Stand 3 containing mature oak and surrounded by dense aspen stocking. Unavailable **5E: Long-Term Retention** 4 Unspecified Unspecified Unspecified Comments: Long term retention for Stand 4. Patch that recently had all species thinned out except for oak. Unspecified Unspecified **Available** 8 Unspecified 5C: Delay treatment for age/size class diversity or exceptional site quality **Comments:** Areas that will be excluded from thinning this YOE. Contains sparser oak canopy with better growing conditions for advanced regeneration. Unavailable 3L: Other wildlife 7 Unspecified Unspecified Unspecified concerns Comments: Retain mature oak on the landscape for wildlife. Unspecified Unspecified Unspecified Unavailable 5E: Long-Term Retention 1 Comments: Hemlock slope left as long term retention and hemlock protection for Stand 59. Unavailable 2G: Too wet (sensitive 10 3L: Other wildlife Unspecified Unspecified soils, does not include concerns access issues)

Comments:

Flooded ground with denser cedar across most areas.

Crystal Falls Mqt. Unit

17

18

19

20

21

22

26

-	-		Report 4 – Site Cond	itions	Compartment: 173 Year of Entry: 2027	TT NATURE
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

Stand

1

2

3

4

5

Report 7 – Stands

Compartment: 173

	orysie	ai raiis iviy									Year of Entry: 2027
nd	Level 4 Co	over Type	:	Size De	nsity	Acres	Stand Age BA	\ Range	Managed Site	9	General Comments
	4130	- Aspen	P	Poletimb	er Well	14.4	25	1-50	N/A		Dense aspen stand transitioning to pole sized trees with some mature
C	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	oak speckled within. More bigtooth in the south half and quaking in the north half.
	Red Oak	5		13	99	Wh	ite Pine	Low	Variable	Variable	
	White Pine	1		18		Whit	e Spruce	Low	Variable	Variable	
	Paper Birch	1	Pole	3		Re	d Maple	High	Variable	Variable	
В	igtooth Aspen	63	Sapling	5	25			<u> </u>			-
Q	uaking Aspen	30	Pole	4	25						
	4130	- Aspen	P	Poletimb	er Well	15.2	33 In	nmature	N/A		Dense aspen, small pole sized trees. Oak and a few mature pine are
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	scattered within.
Q	uaking Aspen	15	Sapling	6	33	Whit	e Spruce	Low	Variable	Variable	
	White Pine	1		18		Re	d Maple	Medium	Variable	Variable	
	Red Maple	3	Sapling	5	33						-
	Paper Birch	2	Sapling	6							
В	igtooth Aspen	73	Sapling	7	33						
	Red Oak	5		13	99						
1	White Spruce	1	Seedling	8							
	4131 - A	spen, Oak	P	Poletimb	er Well	22.4	46 1	111-140	N/A		Aspen pole stand. There is a fair amount of mature oak scattered
C	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 Oak	25		14	99	Bal	sam Fir	Low	Variable	Variable	has oak density to continue spreading. The NW patch has less oak
Q	uaking Aspen	30	Seedling	7	46	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
	Red Maple	3	Sapling	7	46			- I			excluded from future management.
	Paper Birch	2									excluded from future management.
P		2		8							
В	igtooth Aspen	38	Seedling	8	46						
	4123 -		S	8 Sawtimbe	46 er Well	49.4	99 1	171-200	N/A		Very dense oak stand over 200 BA in a lot of areas. Average small log
	4123 - Canopy Species	38 Red Oak % Cover	S	8 Sawtimb DBH	46 er Well	Sub-Car	nopy Species	171-200 Density	Avg. Height	Size	
	4123 - Canopy Species Red Oak	38 Red Oak % Cover 85	S Size Class	8 Sawtimb DBH	46 er Well	Sub-Car Wh	nopy Species ite Pine		Avg. Height Variable	Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring.
С	4123 - Canopy Species Red Oak Red Maple	38 Red Oak ✓ Cover 85 3	Size Class	8 Sawtimb DBH 13 8	46 er Well	Sub-Car Wh Rec	nopy Species ite Pine d Maple	DensityLowLow	Avg. Height Variable Variable	Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east
C	4123 - Canopy Species Red Oak Red Maple Paper Birch	38 Red Oak % Cover 85 3 1	S Size Class	8 Sawtimb DBH 13 8 8	46 er Well 99	Sub-Car Wh Rec	nopy Species ite Pine	Density Low	Avg. Height Variable	Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring.
C	4123 - Canopy Species Red Oak Red Maple	38 Red Oak & Cover 85 3 1 9	Size Class	8 Sawtimbo 13 8 8 8 12	46 er Well	Sub-Car Wh Rec	nopy Species ite Pine d Maple	DensityLowLow	Avg. Height Variable Variable	Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 2/3. Very small areas were harvested in 2021 in the SW corner and the
C	4123 - Canopy Species Red Oak Red Maple Paper Birch	38 Red Oak % Cover 85 3 1	Size Class	8 Sawtimb DBH 13 8 8	46 er Well 99	Sub-Car Wh Rec	nopy Species ite Pine d Maple	DensityLowLow	Avg. Height Variable Variable	Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 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
C	4123 - Canopy Species Red Oak Red Maple Paper Birch igtooth Aspen White Pine	38 Red Oak & Cover 85 3 1 9	Size Class Size Class Seedling Seedling	8 Sawtimbo 13 8 8 8 12 20	46 er Well 99	Sub-Car Wh Red Red	hopy Species hite Pine d Maple d Maple	DensityLowLow	Avg. Height Variable Variable	Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 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 canopies. Moderate rolling terrain in areas.
B	4123 - Canopy Species Red Oak Red Maple Paper Birch igtooth Aspen White Pine	38 Red Oak & Cover 85 3 1 9 2	Size Class Seedling Seedling Sa	8 Sawtimbo 13 8 8 8 12 20 wtimber	46 er Well 1 Age 99 99	Sub-Car Wh Red Red	hopy Species hite Pine d Maple d Maple	DensityLowLowMedium	Avg. Height Variable Variable Variable	Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 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 canopies. Moderate rolling terrain in areas.
B	4123 - Canopy Species Red Oak Red Maple Paper Birch igtooth Aspen White Pine 4123 -	38 Red Oak 85 3 1 9 2 Red Oak	Size Class Seedling Seedling Saa	8 Sawtimbo 13 8 8 8 12 20 wtimber	46 er Well 99 99 99 99	Sub-Car Wh Red Red	hopy Species hite Pine d Maple d Maple 99	Density Low Low Medium 81-110	Avg. Height Variable Variable Variable	Variable Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 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 canopies. Moderate rolling terrain in areas.
B	4123 - Canopy Species Red Oak Red Maple Paper Birch igtooth Aspen White Pine 4123 - Canopy Species	38 Red Oak 85 3 1 9 2 Red Oak % Cover	Size Class Seedling Seedling Saa	8 Sawtimbo 13 8 8 8 12 20 wtimber DBH	46 er Well 99 99 99 99	Sub-Car Wh Red Red n 12.1 Sub-Car Red Bigtor	hopy Species hite Pine d Maple d Maple 99 a hopy Species	Density Low Low Medium 81-110 Density	Avg. Height Variable Variable Variable N/A Avg. Height	Variable Variable Variable	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 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 canopies. Moderate rolling terrain in areas.

Report 7 – Stands

Compartment: 173 Year of Entry: 2027

and	d Level 4 Co	over type		Size De	insity	Acres Stand Age	Stand Age DA Range		ite	General Comments				
6	4123 -	Red Oak	5	Sawtimb	er Well	63.7 99	111-140	N/A		This is the healthiest oak stand in this Compartment. Stand has bee \neg managed in the past with oak being thinned. Oak is healthier with m				
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	stout branches and larger diameter trees compared to other unman				
	White Pine	3		20		Red Maple	High	Variable	Variable	stands. Oak canopy is closed across a majority of the stand averag				
	Red Pine	1		20		Bigtooth Aspen	Medium	Variable	Variable	110-120 BA+ across oak areas. Understory has maple and aspen				
	Red Oak	94		13	99	Quaking Aspen	Low	Variable	Variable	saplings from last harvest. Aspen is doing well with smaller gaps ac the stand but is barely holding on with the limited sunlight. No signs				
	Hemlock	1		13						dead oak except along the south edge. Spreading dead oak along				
	Bigtooth Aspen	1		15						south private line from adjacent past harvest. Adjacent private landowner along the south edge clearcut during peak oak wilt sease				
										to the state land border. Significant new mortality and spread along line is anticipated in the coming years. Oak stocking is dense enoug continuous spread across the entire stand. OPIC - FMD: Shelterwood cut to 50' BA oak retention. Summer cu scarification (after July 15). (2006) Shelterwood cut in 2010. Everything removed but oak and pine. (2010)				
7	4130 - Aspen Poletimber Well		63.6 47	N/A		Good quality aspen pole stand. Mature scattered oak and pine mix								
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	mainly in the NW half of the stand. More fir and hazel in the unders in the north half. Some open patches and edges show good natura				
	White Pine			Balsam Fir	Low	Variable	Variable	regeneration. Lower patch of ground in the NE may have to be exc						
	Red Maple	5	Sapling	7	47	White Spruce	Low	Variable	Variable	from future management. Retain the W/NW half of the stand to				
	Paper Birch	2	Sapling	7		White Pine	Low	Variable	Variable	more aspen age class diversity in the area.				
	Bigtooth Aspen	10	Seedling	9	47									
	Red Oak	7		13	99									
	Quaking Aspen	70	Seedling	8	47									
3	4130	- Aspen	F	Poletimb	er Well	50.9 48	111-140	N/A		Good quality mixed aspen poles. Scattered mature oak and pine for				
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Canopy Species	Density	Avg. Height	Size	across the stand. Fingers and areas along the north have steep s down to low ground flats. A fair amount may need to be excluded				
	Quaking Aspen	52	Seedling	8	48	Balsam Fir	Low	Variable	Variable	future management for operations and BMP's. Some areas have b				
	Red Maple	5	Sapling	7		White Pine	Low	< 5 feet	< 5 feet	oak and pine seedlings present.				
	Bigtooth Aspen	30	Seedling	8	48	Red Maple	Low	Variable	Variable					
	White Pine	5		14		Red Oak	Low	< 5 feet	< 5 feet					
	Red Pine	3		14						_				
	Red Oak	5		14	99									
	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-Canopy Species	Density	Avg. Height	Size	heavy to bigtooth with scattered oak and some pine mixed in. A low ravine along the NW should be excluded from future management.				
	Red Maple	2	Pole	3		Red Maple	Medium	Variable	Variable	large rock outcrop in the north was excluded during the last harves				
	Bigtooth Aspen	75	Sapling	5	25	Red Oak	Low	Variable	Variable	some of this may be included in future management.				
	White Pine	5		15						_				
				15										
	Red Pine	2												
		8		13	99									

Report 7 – Stands

	DNR DNR STORES
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Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Sit	e	General Comments
10	4130	- Aspen	I	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.
	Red Pine	1		18		Re	d Maple	Low	Variable	Variable	
	White Pine	1		15	99	R	ed Oak	Trace	Variable	Variable	
	Bigtooth Aspen	7	Seedling	9	48	Whi	e Spruce	Trace	Variable	Variable	
	Red Oak	6		13	99						
	Quaking Aspen	85	Seedling	8	48						
11	4130	- Aspen	l	Poletimb	er Well	35.0	23 I	Immature	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.
	White Pine	2		22		Re	d Maple	Medium	Variable	Variable	
	Red Maple	7	Pole	3		R	ed Oak	Trace	Variable	Variable	
	Bigtooth Aspen	64	Sapling	5	23				I		-
	Red Oak	12		14	99						
	Quaking Aspen	15	Sapling	5	23						
12	4123 -	Red Oak	:	Sawtimb	er Well	34.8	99	171-200	N/A		Good quality oak but extremely suppressed averaging smaller \neg diamaeter, larger pole to small sawlog range. Most areas are reaching
	Canopy Species		Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	up to 200BA for stocking. Some small clones of large, very mature
	Red Oak	80		10	99	Re	d Maple	Medium	Variable	Variable	aspen is mixed in as well as some red maple and birch poles. Significant
	Red Pine	2		17		Pa	ber Birch	Low	Variable	Variable	amount of spreading dead oak patches along the SE edge from past adjacent timber sale. Area north of the road also has numerous
	Quaking Aspen	3		11							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 anticipated in the coming years. Oak stocking is dense enough for continuous
	Bigtooth Aspen	5		12							spread across the entire stand.
13	4131 - A	spen, 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	harvest. Adjacent private landowner along the south edge clearcut
	Red Pine	1		22		Re	d Maple	High	Variable	Variable	during peak oak wilt season up to the state land border. Significant new
	White Pine	1		22		Bigto	oth Aspen	Low	Variable	Variable	mortality and spread along the line is anticipated in the coming years.
	Red Oak	50		14	99						Oak stocking is dense enough for continuous spread across the entire stand.
	Red Maple	3	Sapling	5							
	Paper Birch	2	Sapling	5							
	Bigtooth Aspen	25	Seedling	6	34						
	Quaking Aspen	18	Sapling	6	34						
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 canopy \neg of red oak which is still very dense. Aspen regen present in some of the
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	understory will not succeed with current canopy conditions. Stand is
	Red Pine	3		18			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

DNR

Stanc	d Level 4 Co	over Type		Size De	nsity	Acres S	Stand Age B	A Range	Managed Si	te	General Comments
15	4130	- Aspen		Sapling	Well	58.4	5 lı	nmature	N/A		Dense aspen saplings solid to bigtooth. Scattered mixed pine, mature
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	opy 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		Red	l Oak	Medium	< 5 feet	< 5 feet	dead oak spreading.
	Red Maple	4	Log	1		White	e Pine	Low	Variable	Variable	
	Bigtooth Aspen	81	Log	1	5	Red	Maple	Medium	Variable	Variable	
	White Pine	3		8							_
	Red Oak	8		12							
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-Cano	opy 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
	Red Maple	10	Sapling	6		Red	d Oak	Low	Variable	Variable	yet.
	Paper Birch	2	Sapling	7		White	e Pine	Low	Variable	Variable	
	Bigtooth Aspen	30	Sapling	6	36	Red	Maple	High	Variable	Variable	
	White Pine	3		10					· ·		-
	Quaking Aspen	45	Sapling	5	36						
	Northern Pin Oak	3		9							
	Red Pine	2		10	99						
	Red Oak	5		13	99						
17	4123 -	Red Oak	S	awtimber	Medium	10.9	99	111-140	N/A		red oak logs. patches of alien pipes that succeeded with gaps. dead oak □ patchpine seedlings not very dense but healthy and scattered across
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	opy Species	Density	Avg. Height	Size	entire underskirt
	Bigtooth Aspen	17	Pole	4	37	White	e Pine	Low	< 5 feet	< 5 feet	
	Red Pine	2		16	99	Red	Maple	High	Variable	Variable	
	Red Oak	80		13	99	Bigtoot	th Aspen	Low	>20 feet	>20 feet	
	White Pine	1		20		Red	l Pine	Low	< 5 feet	< 5 feet	
18	4130	- Aspen		Sapling	Well	14.4	4 lı	nmature	N/A		Cut in 2021. Dense aspen saplings with a couple of interior retention
	Canopy Species	% Cover	Size Class	DBH	Age						patches.
	Red Oak	10	Log	1							
	Quaking Aspen	10	Log	1	4						
	Quaking Aspen Red Maple	10 5	Log Log	1	4						
	0 1		•		4						
19	Red Maple Bigtooth Aspen	5	Log Log	1	4	19.0	99	111-140	N/A		Red oak log canopy with patchy dense areas of aspen. Dense red
19	Red Maple Bigtooth Aspen	5 75	Log Log	1 1 Sawtimb	4		99 · · · · · · · · · · · · · · · · · ·	111-140 Density	N/A Avg. Height	Size	Red oak log canopy with patchy dense areas of aspen. Dense red maple sapling understory across much of the stand. One dead oak patch found in the SW was inspected, it appears to have stopped
19	Red Maple Bigtooth Aspen 4123 - Canopy Species Red Pine	5 75 Red Oak	Log Log	1 1 Sawtimb DBH 16	4 er Well Age 99	Sub-Cano Red	ppy Species I Pine		Avg. Height < 5 feet	Size < 5 feet	maple sapling understory across much of the stand. One dead oak patch found in the SW was inspected, it appears to have stopped spreading with a light enough oak canopy and more diverse mix of
19	Red Maple Bigtooth Aspen 4123 - Canopy Species	5 75 Red Oak % Cover	Log Log	1 1 Sawtimb DBH	4 er Well Age	Sub-Cano Red	opy Species	Density	Avg. Height	Size	maple sapling understory across much of the stand. One dead oak patch found in the SW was inspected, it appears to have stopped
19	Red Maple Bigtooth Aspen 4123 - Canopy Species Red Pine	5 75 Red Oak % Cover 2	Log Log	1 1 Sawtimb DBH 16	4 er Well Age 99	Sub-Cano Red White	ppy Species I Pine	Density Low	Avg. Height < 5 feet	Size < 5 feet	maple sapling understory across much of the stand. One dead oak patch found in the SW was inspected, it appears to have stopped spreading with a light enough oak canopy and more diverse mix of

Report 7 – Stands

Compartment: 173 Year of Entry: 2027

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Stan	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	A Range	Managed Sit	te	General Comments
20	4130		Saplin	g Well	23.4	5	Immature	N/A		Dense aspen saplings. A few mature oak patches were left for retention	
	Canopy Species	% Cover	Size Class	DBł	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Patches of retention look to be healthy at this time.
	Quaking Aspen	15	Log	1		Re	ed Pine	Low	5 - 10 feet	5 - 10 feet	
	Red Oak	10	Log	1							_
	Red Maple	5	Log	1							
	Bigtooth Aspen	70	Log	1	5						
21	4130	- Aspen	I	Poletimb	oer 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	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	oak in the north half.
	Red Maple	3	Sapling	5		Re	ed Pine	Low	Variable	Variable	
	Quaking Aspen	80	Seedling	8	48	Blac	ck Cherry	Low	Variable	Variable	
	Red Oak	12		12		Re	d Maple	Low	Variable	Variable	
	Red Pine	5		13							-
22	4311 - Pin	e, Aspen M	ix s	Sawtimb	oer 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	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Ilushed 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	ed Pine	Low	Variable	Variable	to become better established. Consider management next YOE to
	Red Oak	18		12	99	Wł	nite Pine	Low	Variable	Variable	release advanced regen and take some dominant canopy out.
	Red Maple	2	Sapling	7		Wł	nite Pine	Low	< 5 feet	< 5 feet	
	Bigtooth Aspen	30	Sapling	5	32	Re	d Maple	High	Variable	Variable	
	Red Pine	33		12	99	Re	d Maple	Medium	< 5 feet	< 5 feet	
	Quaking Aspen	7	Sapling	5		R	ed Oak	Medium	< 5 feet	< 5 feet	
						R	ed Oak	Low	Variable	Variable	
23	4130	- Aspen		Saplin	g Well	16.4	5	Immature	N/A		Aspen sapling stand with mainly bigtooth. A few retention patches of \neg mature oak within.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	3	Sapling	7		Wł	nite Pine	Low	Variable	Variable	
	Red Pine	2		10		Re	ed Pine	Low	Variable	Variable	
	Quaking Aspen	15	Log	1	5						
	Red Maple	7	Log	1							
	Bigtooth Aspen	68	Log	1	5						
	Red Oak	5	Log	1							
24	4123 -	Red Oak	:	Sawtimb	oer 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	DBł	l Age	Sub-Ca	nopy 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	R	ed Oak	Low	Variable	Variable	saplings in the south half. Most mature pine is in the north half.
	Red Oak	60		13	99	Re	ed Pine	Medium	Variable	Variable	
	Quaking Aspen	10	Sapling	5	32	Wł	nite Pine	Medium	Variable	Variable	
	Red Maple	3		8		Wł	nite Pine	Trace	Variable	Variable	
	Bigtooth Aspen	15	Sapling	6	32	Re	d Maple	Medium	Variable	Variable	
	Red Pine	7		12	99	Bigto	oth Aspen	Low	Variable	Variable	
					·	Quak	king Aspen	Low	Variable	Variable	

Report 7 – Stands

Stand	d Level 4 Co	over Type		Size Den	sity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
25	42110 - Pla	nted Red P	ine	Poletimbe	r Well	59.0	62	141-170	N/A	۱.	Thinned in 2020. Red pine, large pole to small sawlog sized stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy 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.
	White Pine	3		12		Re	ed Oak	Medium	Variable	Variable	Oak and red maple saplings are dense in certain areas within the stand.
	Northern Pin Oak	1		10		White	e Spruce	Low	Variable	Variable	160 150 200 190 80 120 150 150 160 Average 150 BA.
	Red Pine	94		9	62	Northe	rn Pin Oak	Low	Variable	Variable	
	Red Oak	2		12		Quaki	ng Aspen	Low	Variable	Variable	
						Rec	d Maple	Medium	Variable	Variable	
26	26 4130 - Aspen			Poletimbe	r Well	29.0	48	111-140	N/A	۱.	Nice stand of quaking aspen poles. Averages large pole to small sawlog
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	sized trees although some areas average a slightly smaller diameter.
	Red Pine	4		14		Wh	ite Pine	Low	Variable	Variable	understory in areas.
	Paper Birch	1	Seedling	7		Blac	k Cherry	Low	Variable	Variable	
	White Spruce	1		11		Northe	rn Pin Oak	Low	Variable	Variable	
	White Pine	5		15		Re	d Pine	Low	Variable	Variable	
	Black Cherry	1	Sapling	7		White	e Spruce	Low	Variable	Variable	
	Quaking Aspen 88			9	48						
27	27 4136 - Aspen, Mixed		nifer	Sapling \		23.7	24	1-50	N/A	۱.	Patches of declining fir with aspen and mixed hardwood saplings filling in. Any salvage of declining fir will damage better regen on site.
	Canopy Species	% Cover	Size Class	DBH	Age						Unmanaged patch in the far NE corner should be included with future
	Balsam Fir	15	Sapling	7	74						management.
	Red Maple	20			74						Aspen was cut out and other species retained before state acquired
	White Pine	5		10							parcel.
	Quaking Aspen	60	Log	2	24						
28	4130	- Aspen		Sapling \	Nell	15.6	6	1-50	N/A	۱.	Aspen sapling stand with large seed tree pine left. Some small patches
	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							
	White Pine	7		14	99						
	Red Pine	3		14	99						
	Quaking Aspen	85	Log	1	6						
29	4130	- Aspen		Sapling \	Nell	12.1	6	Immature	N/A	۱.	Dense aspen saplings with some scattered mature pine. Pine is mainly found in the north half.
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Pine	5		10							
	Quaking Aspen	87	Log	1	6						
	Red Pine	1		20							
	Red Maple	7	Log	1							

Report 7 – Stands

Compartment: 173

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		J J									Year of Entry: 2027				
Stand	Level 4 C	Level 4 Cover Type		Size Der	sity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments				
30	42110 - Planted Red Pine		ine	Sawtimbe	r 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	DBH	Age	Sub-Can	opy 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	Whi	ite Pine	Low	5 - 10 feet	5 - 10 feet					
	White Pine	1		25		Black	k Cherry	Low	Variable	Variable					
					White	e Spruce	Low	5 - 10 feet	5 - 10 feet						
31	4130	- Aspen		Sapling	Well	27.1	4	Immature	N/A		Cut in 2021. Dense aspen saplings, mainly quaking, transitioning to				
	Canopy Species	% Cover	Size Class	DBH	Age						more bigtooth with higher elevation.				
	White Pine	2	Seedling	8											
	Red Pine	3		14											
	Red Maple	5	Log	1											
	Bigtooth Aspen	35	Log	1	4										
	Quaking Aspen	50	Log	1	4										
	Red Oak	5	Log	1											
32	4130	4130 - Aspen Poletimber			r Well	6.9	48	111-140	N/A		Nice stand of quaking aspen poles. Averages large pole to small sawlog ¬ sized trees although some areas average a slightly smaller diameter.				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	Large pine mixed in patches and scattered across the area. Dense hazel				
	White Pine	5		15		Whi	ite Pine	Low	Variable	Variable	understory in areas.				
	Black Cherry	1	Sapling	7		Black	k Cherry	Low	Variable	Variable					
	Red Pine	4		14		Northe	rn Pin Oak	Low	Variable	Variable					
	Paper Birch	1	Seedling	7		Re	d Pine	Low	Variable	Variable					
	Bigtooth Aspen	20	Seedling	8		White	e Spruce	Low	Variable	Variable					
	Quaking Aspen	68		9	48				1	1	-				
	Red Oak	2		13											
	White Spruce	1		11											
33	6118 - Lowland D	eciduous w	ith Cedar	Poletimber Well		5.1	99	81-110	N/A		INCLUDES OUTLET FROM DEADMANS LAKE. Also includes buffer				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	along Deadman's Lake, which is mostly upland.				
	Black Ash	35	Sapling	7	99	Bla	ck Ash	Medium	Variable	Variable	1				
	Red Maple	25		10		Black	< Spruce	Low	Variable	Variable	1				
											⊥				

Paper Birch

Northern White Cedar

Quaking Aspen

10

20

10

10

9

10

99

99

Report 7 – Stands

Stand	d Level 4 Co	over Type	:	Size De	nsity	Acres	Stand Age E	BA Range	Managed Site	e	General Comments
34	6117 - Lowland Coni	Deciduous, iferous	Mixed Sa	wtimbei	[.] 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
	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 maple and white pine may be manageable in the future.
	White Pine	5		20	100	Bla	ck Cherry	Medium	Variable	Variable	
	American Elm	5	Seedling	8		Bl	ack Ash	Medium	Variable	Variable	
	Balsam Fir	5	Sapling	7		Blac	ck Spruce	Low	Variable	Variable	
	Sugar Maple	5		9							
	Red Maple	10	Sapling	7							
	Paper Birch	5		10							
	Black Ash	22		7							
	White Spruce	3		10							
No	orthern White Cedar	15		9	100						
35	4130	- Aspen		Sapling	Well	16.9	13	Immature	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	W	nite Pine	Low	Variable	Variable	
	Balsam Poplar	10	Log	2		Qual	king Aspen	Medium	Variable	Variable	
	White Pine	15		14		Ba	lsam Fir	Medium	Variable	Variable	-
	Black Cherry	12	Log	1		R	ed Pine	Low	Variable	Variable	
	Red Pine	3		18							-
36	4130	- Aspen		Sapling	l Well	49.1	6	Immature	N/A		Aspen saplings with some hardwood mixed in and residual scattered pine and oak.
	Canopy Species	% Cover	Size Class	DBH	Age						pine and bak.
	White Pine	3		14							
	Black Cherry	4	Pole	3							
	Red Maple	5	Log	1							
	Bigtooth Aspen	8	Log	1							
	Northern Pin Oak	2		12							
	Red Pine	5		14							
	Red Oak	1		14							
	White Spruce	2	Log	2							
	Quaking Aspen	70	Log	1	6						
37	37 4123 - Red C		S	Sawtimb	er Well	28.9	99	111-140	N/A		Solid oak log stand. Large patch of spreading dead oak in the center
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	areas and some along the south edge. Section west of the powerline ROW also contains multiple spreading dead oak patches. Private
	Red Oak	90		13	99	Re	d Maple	Medium	Variable	Variable	bordering the far west edge have new lines in for harvest and do have
	Red Maple	2	Seedling	6	49				I		spreading dead oak patches within.
	Paper Birch	2	Sapling	5							OPIC - FMD: ASPEN CUT OUT IN 1976 (1996)
	Bigtooth Aspen	3	Seedling	8							
	Quaking Aspen	3	Seedling	7							

Report 7 – Stands

itand Level 4		over Type		Size De	ensity	Acres	Stand Age E	3A Range	Managed Sit	e	General Comments
38	4130 - Aspen			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-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	1	Sapling	7		Ba	lsam Fir	Low	Variable	Variable	
	Quaking Aspen	71	Seedling	8	47	Whi	te Spruce	Low	Variable	Variable	
	Red Oak	6		13		WI	nite Pine	Trace	Variable	Variable	
	White Spruce	1	Sapling	7		Blac	ck Cherry	Low	Variable	Variable	
	White Pine	2		14		Re	d Maple	Low	Variable	Variable	
	Black Cherry	2	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-Ca	nopy Species	Density	Avg. Height	Size	1
	Red Maple	5	Log	1		Wit	ch Hazel	Medium	5 - 10 feet	5 - 10 feet	
	Bigtooth Aspen	85	Log	1	5						-
	Red Oak	10	Log	1							
40	4131 - A	1 - Aspen, Oak Sapling W		Sapling Well		68.9	15	Immature	N/A		Cut in 2010. Stand ranges from dense aspen saplings to large areas with a more diverse mix. Areas with oak and hardwood saplings are
	Canopy Species	% Cover	Size Class	DBH	I Age						growing excellent and competing with the young aspen. A fair amount of
	Balsam Poplar	2	Log	2							oak saplings are mixed in from both seed and stump sprouting. Long
	Quaking Aspen	15	Log	2	15						term retention patches left from the past harvest contain spreading dea oak patches. Overall, this is a vigorous, diverse, young mixed stand.
	Red Maple	8	Log	2	15						oak patches. Overall, this is a vigorous, diverse, young mixed stand.
	Paper Birch	12	Log	2							
	Bigtooth Aspen	38	Log	3	15						
	Red Oak	25	Log	2	15						
41	4130	- Aspen		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-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	3		14	99	Re	d Maple	Medium	Variable	Variable	
	Quaking Aspen	10	Sapling	6	48						_
	Bigtooth Aspen	83	Sapling	6	48						
	Red Oak	4		13	99						
42	500	- Water		Unspe	cifed	2.1	0		No		Brule River

5

25

10

60

% Cover Size Class

Seedling

Sapling

Sapling

Size Density

Sawtimber Well

7

7

6

13

Poletimber Well

DBH Age

36

36

99

Level 4 Cover Type

4121 - Oak, Aspen

6120 - Lowland Cedar

Canopy Species

Red Maple

Bigtooth Aspen

Quaking Aspen

Red Oak

Stand

43

44

Report 7 – Stands

111-140

Density

Medium

Low

Low

Medium

141-170

Acres Stand Age BA Range

99

Sub-Canopy Species

Red Maple

Red Maple

Bigtooth Aspen

Bigtooth Aspen

99

58.6

16.6

nds		Compartment: 173 Year of Entry: 2027							
Managed S	ite	General Comments							
N/A	۱.	Rolling terrain across stand. Ranges from denser oak log patches to							
Avg. Height	Size	dense aspen pole areas. Aspen is heavy to bigtooth transitioning to quaking on the lower elevations. Aspen on higher elevations has larger							
Variable	Variable	diameter. Dead oak clumps scattered in the north and a larger vein							
Variable	Variable	containing numerous pockets zigzags across the SW area.							
Variable	Variable	*							
Variable	Variable								
N/A	۱.	Very dense cedar across a majority of the stand. Patch in the far east							
Avg. Height	Size	has some more mixed conifer and aspen mixed in. Low, flooded ground.							
Variable	Variable								
5 - 10 feet	5 - 10 feet								
N/A	Λ	Nice stand of quaking aspen poles. Averages large pole to small sawlog							
Avg. Height	Size	sized trees although some areas average a slightly smaller diameter.							
Variable	Variabla	Large pine mixed in patches and scattered across the area. Dense hazel							

Can	Canopy Species % Cover		Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	has some more mixed conifer and aspen mixed in. Low, flooded ground.
	hite Pine	4		15	Balsam Fir	Low	Variable	Variable	
	king Aspen	4		10	Tag Alder	Low	5 - 10 feet	5 - 10 feet	
	ck Spruce	5	Sapling	7					
	White Cedar	87	Caping	9 99					
		01		0 00					
45	4130 -	Aspen	F	oletimber Well	19.9 48 ²	111-140	N/A	L Contraction of the second seco	Nice stand of quaking aspen poles. Averages large pole to small sawlog
Can	opy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	sized trees although some areas average a slightly smaller diameter.
Quak	king Aspen	88		9 48	White Pine	Low	Variable	Variable	understory in areas.
Re	ed Pine	4		14	Black Cherry	Low	Variable	Variable	
Whit	te Spruce	1		11	Northern Pin Oak	Low	Variable	Variable	
Wł	hite Pine	5		15	Red Pine	Low	Variable	Variable	
Blac	ck Cherry	1	Sapling	7	White Spruce	Low	Variable	Variable	
Pap	per Birch	1	Seedling	7					A
46	4130 -	Aspen		oletimber Well	25.5 47	111-140	N/A		Good quality aspen stand. Some mature oak mixed in. A low swale runs
		•				-			\exists along the east edge and may have to be excluded from future
	opy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	management.
R	ed Oak	7		13	White Pine	Trace	Variable	Variable	
Whit	te Spruce	1	Sapling	7	Black Cherry	Low	Variable	Variable	
Blac	ck Cherry	3	Seedling	7	Red Maple	Low	Variable	Variable	
Bla	ack Ash	2	Sapling	7	Balsam Fir	Low	Variable	Variable	
Ba	alsam Fir	1	Sapling	7	White Spruce	Low	Variable	Variable	
Quak	king Aspen	74	Seedling	8 47					-
Pap	per Birch	2	Sapling	7					
Bigto	ooth Aspen	10	Seedling	9					
47	4319 - Mixed	Upland Fo	rest		0.6 100	111-140	N/A		

% Cover

1

1

96

2

% Cover

1

65

7

1

10

1

12

3

1

99

% Cover Size Class

42110 - Planted Red Pine

Size Class

Sapling

Size Class

Seedling

Seedling

Seedling

16

16

13

6

14

8

15

9

9

6

9

14

12

8

Level 4 Cover Type

4123 - Red Oak

4130 - Aspen

Canopy Species

Red Pine

White Pine

Red Oak

Paper Birch

Canopy Species

White Pine

Quaking Aspen

Red Oak

Sugar Maple

Red Maple Paper Birch

Bigtooth Aspen

Red Pine

Canopy Species

White Pine

Red Pine

Stand

49

51

52

53

Report 7 – Stands

Compartment: 173

Year of Entry: 2027 **General Comments** Size Densitv Acres Stand Age BA Range Managed Site 99 Sawtimber Medium 7.9 81-110 N/A Cut in 2009. Dense oak canopy with some open sapling sized patches of mixed aspen and maple. Numerous spreading dead oak patches **DBH Age** Sub-Canopy Species Avg. Height Size Density across the stand south of Paint Pond Road, north of the road is healthy Red Oak Variable Variable Trace 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 Red Maple High Variable Variable border. Significant new mortality and spread along the line is anticipated 99 **Bigtooth Aspen** Medium Variable Variable in the coming years. Oak stocking is dense enough for continuous Variable Quaking Aspen Variable Low spread across the entire stand. Poletimber Well 125.6 44 111-140 N/A Nice aspen poles with good diameter. Stand is heavy to guaking aspen with some bigtooth clones mixed in, mainly on elevation rises. More DBH Age Size Sub-Canopy Species Density Avg. Height diverse mix in the NW area with a bit more pine and hardwood mixed in. White Spruce Variable Variable Trace 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 44 Variable Red Maple Low Variable the area. Aspen is healthy and will hold up well. Edges of the adjacent Red Maple Medium Variable Variable red pine stand were avoided for the proposed harvest due to dense Paper Birch Trace Variable Variable saplings along edges from 2021 harvest to allow the edge to become more established. Poletimber Well 51.4 62 81-110 N/A 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 Size **DBH** Age Sub-Canopy Species Density Avg. Height regeneration from past harvest. A lot of aspen saplings will have enough Full 10 - 20 feet 10 - 20 feet **Quaking Aspen** light to succeed into the future. 62 White Spruce Low Variable Variable Red Maple Low Variable Variable ning. Wet flooded ground except a small

6128 - Lowland Coniferous, Mixed	Poletimber Well	9.8	99	51-80	N/A	Spruce/fir is dead and/or declini
Deciduous						patch along the W/NW.

N/A

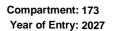
C	anopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Qı	uaking Aspen	20		12		Balsam Fir	Medium	Variable	Variable
,	White Pine	10		14		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
В	lack Spruce	35		8	99				
North	ern White Cedar	35		9					

6117 - Lowland Deciduous, Mixed Poletimber Well 99 8.7 81-110 54 Coniferous

Floodplain along the Brule River with saturated soil. Dead and dving black ash along the river. Conifer and aspen are falling apart.

001								
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3		14	99	Tag Alder	Medium	5 - 10 feet	5 - 10 fee
Black Ash	45	Sapling	7	99	Balsam Fir	Medium	Variable	Variable
Balsam Fir	10		8					
Quaking Aspen	12		12	99				
Red Maple	15		10					
White Spruce	5		9	99				
Black Spruce	10	Sapling	7					

Report 7 – Stands



Stanc	Level 4 Co	4 Cover Type Size Density Acres Stand Age BA Range Managed Site		te	General Comments								
55	4130	- Aspen		Poletimber Well	81.3	36	36 81-110			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			
	White Pine	2		18	Re	d Maple	Medium	Variable	Variable	areas along the south due to slope and BMP's. Open area in SW cor			
	Black Cherry	1	Sapling	7	Black Cherry		Low	Variable	Variable	that is growing in with mixed hardwood, conifer, and oak saplings/pole			
	Red Maple	3	Sapling	6	R	ed Oak	Trace	Variable	Variable				
	Paper Birch	1	Seedling	8	Whi	te Spruce	Low	Variable	Variable				
	Bigtooth Aspen	40	Seedling	9						-			
	Quaking Aspen	46	Seedling	8 36									
	Red Oak	7		16									
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			
	White Pine	1		22		nite Pine	Low	Variable	Variable	mature oak canopy. 180 140 140 180 Average of 160 BA in oak areas			
	Red Oak	98		12 99	Re	d Maple	Medium	Variable	Variable				
	Hemlock	1		12	Bigto	oth Aspen	Low	Variable	Variable				
					Yel	low Birch	Trace	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			
	Paper Birch	1	Sapling	7	Ba	lsam Fir	Low	Variable	Variable	hemlock patch in the SW center area.			
	Bigtooth Aspen	5	Seedling	8 33	Re	d Maple	High	Variable	Variable				
	Quaking Aspen	3	Seedling	7						[⊥] OPIC - FMD: ASPEN HARVESTED(1992)			
	Red Oak	89		13 99									
	Hemlock	2		14									
61	122 - Road	d/Parking Lo	ot	Unspecifed	1.9	0		No		Stager Lake Road			
62		spen, Oak		Poletimber Well	9.9	16	1-50	N/A		Cut in 2009. Dense mixed aspen saplings. Scattered mature oak acros			
	Canopy Species		Size Class	DBH Age		nopy Species	Density	Avg. Height	Size	diverse mix across this stand.			
	White Pine	1		17		d Maple	Medium	Variable	Variable	-			
	Quaking Aspen	30	Log	2 16	0	oth Aspen	Medium	Variable	Variable	-			
	Red Oak	35		12 99	Qual	king Aspen	Medium	Variable	Variable				
	Red Pine	1		15									
	Bigtooth Aspen	33	Log	2 16									

Report 7 – Stands

Compartment: 173

Year of Entry: 2027

DNR

Stand	Level 4 Co	Level 4 Cover Type			nsity	Acres	Stand Age	e BA Range	Managed Site		General Comments		
63	4199 - Other Mixed Upland Deciduous			Sapling Wel		9.2	12	Immature	N/A		Harvested 2013 due to Oak wilt. Mixed aspen and hardwood		
	Canopy Species % Co		Size Class	DBH	Age						regeneration. There is a good component of healthy oak sapling scattered in areas.		
	Red Maple	25	Log	1	12								
	Paper Birch	5	Log	2									
	Bigtooth Aspen	30	Log	2	12								
	Red Oak	35	Log	2	12								
	Quaking Aspen	5	Log	2	12								
65	4139 - Aspen,	Mixed Decid	duous	Sapling N	ledium	17.8	5	1-50	N/A		Aspen saplings with mature oak and pine scattered across the stand.		
	Canopy Species	% Cover	Size Class	DBH	Age						Saplings range from fully stocked to areas with more open patches. An open patches should fill in more with time.		
	Red Oak	13		12	99								
	Quaking Aspen	10	Log	1									
	White Pine	10		9									
	Red Maple	15	Log	1									
	Bigtooth Aspen	40	Log	1	5								
	Northern Pin Oak	3		11									
	Northern Pin Oak	5	Log	1									
	Red Pine	4		14									
67	6129 - Mixed Conif			Sawtimb		6.4	99	51-80	N/A		Low flooded mix of dead and/or declining trees. Large healthy pine		
	Canopy Species		Size Class		Age		nopy Specie	-	Avg. Height	Size	-		
	Balsam Fir	5	Sapling	6		Ta	ig Alder	Medium	5 - 10 feet	5 - 10 feet			
	Balsam Poplar	5		10									
	White Pine	45		16	99								
	Black Spruce	10	Sapling	7	99								
No	orthern White Cedar	30		12	99								
	Red Maple	5		8									
	413 -	3 - Aspen		Poletimber Well		14.6	69	81-110	N/A		Aspen with some conifer mixed in. No access due to private.		
68	410												
	42110 - Pla	nted Red Pi	ne	Poletimb	er Well	2.0	42	171-200	N/A		Dense red pine poles.		
68 69			-		er Well Age 42	2.0	42	171-200	N/A		Dense red pine poles. OPIC - FMD: Red pine plantation, part of old ELF study area. (2006)		

Report 7 – Stands

Compartment: 173

Year of Entry: 2027

Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
71	42210 - Na	ine s	Sawtimber Well		25.0	99	81-110	N//	4	Thinned in 2020. Most merchantable species were removed. Scattered	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	mature oak across the stand. Some mixed understory saplings and areas with good oak seedlings.
	White Pine	10		12		Wh	ite Pine	Low	Variable	Variable	
	Red Oak	7		12		Re	d Pine	Low	Variable	Variable	
	Red Maple	5	Sapling	6		Re	d Maple	Medium	Variable	Variable	
	Red Pine	78		12	99	Bigto	oth Aspen	Low	Variable	Variable	
						Re	ed Oak	Medium	Variable	Variable	
						Re	ed Oak	Medium	< 5 feet	< 5 feet	
72	4130	- Aspen	F	Poletimb	er Well	15.4	47	111-140	N//	4	Nice aspen pole stand with pure quaking aspen. Some pine and oak
	Canopy Species	hopy Species % Cover Size Class DI		DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	- scattered within. Understory is fairly open.
	White Pine	5		14		Whit	e Spruce	Low	Variable	Variable	
	Red Maple	1	Sapling	6	47	Ba	sam Fir	Low	Variable	Variable	
	Red Pine	2		11		Wh	ite Pine	Low	Variable	Variable	
	Quaking Aspen	90	Seedling	8	47	Blac	k Cherry	Low	Variable	Variable	
	Red Oak	2		11	99						_
73	4123 - Red Oak Sa			Sawtimber Medium		n 7.1 99 a		81-110	1-110 N/A		Cut in 2009. Dense oak canopy with some open sapling sized patches
	Canopy Species	nopy Species % Cover Size Class DBH		DBH Age		Sub-Car	opy 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
	White Pine	1		16		Re	ed Oak	Trace	Variable	Variable	yet and has some larger canopy gaps. Adjacent private landowner along
	Red Oak	96		13	99	Quak	ng Aspen	Low	Variable	Variable	the south edge clearcut during peak oak wilt season up to the state land
	Paper Birch	2	Sapling	6		Re	d Maple	High	Variable	Variable	border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous
	Red Pine	1		16		Bigto	oth Aspen	Medium	Variable	Variable	spread across the entire stand.
75	4123 -	4123 - Red Oak Sawtimb			er Well	32.9	99	111-140	N/A	4	Cut in 2009. This stand was delineated out from the adjacent stand due
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy 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
	White Pine	2		17		Re	d Maple	Medium	Variable	Variable	landowner along the east edge clearcut during peak oak wilt season up
	Red Pine	2		15		Bigto	oth Aspen	Medium	Variable		to the state land border. Significant new mortality and spread along the
	Red Oak	96		12	99	Quak	ng Aspen	Low	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 Sawtim			Sawtimb	awtimber Well		99	141-170	N/A	4	Dense oak log stand. Majority of understory is very dense to red maple
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	saplings. Dead oak patches in the center and north half showing spread.
	Red Oak	95		13	99	Re	d Maple	High	Variable	Variable	
	Ded Marila	0	Carolina			D' /					
	Red Maple	2	Sapling	7		Bigto	oth Aspen	Low	Variable	Variable	

Crvs	stal Fa	lls M	lat. U	nit
	Juli		9	

Report 7 – Stands

DNR DNR STREET

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

Report 7 – Stands

Stand Level 4 (over Type		Size Den	sity	Acres	Stand Age E	A Range	Managed S	ite	General Comments		
88	4130 - Aspen			Sapling	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			
	Balsam Fir	5	Pole	2		Ba	Ilsam Fir	Medium	Variable	Variable			
	Balsam Poplar	20	Log	2	10						-		
	White Pine	5		14									
	Quaking Aspen	70	Log	2	10								
89	4123 -	Red Oak		Sawtimbe	r Well	20.6	99	141-170	N/A	N N	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 Maple	3		8		Re	ed Maple	Low	Variable	Variable	aggressive, continued spread.		
	Bigtooth Aspen	25		11	99	Re	ed Maple	Low	Variable	Variable			
	Red Oak	72		13	99						1		
92	4125 - Blac	ak	Poletimber Well			99	111-140	N/A	\	Mixed oak stand that is heavy to northern pin oak. Red oak and pine are			
	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.		
	White Pine	7		10	99	W	hite Pine	Medium	< 5 feet	< 5 feet			
	Red Oak	15		12	99	Re	ed Maple	High	Variable	Variable			
	Northern Pin Oak	75		9	99	Re	ed Maple	Medium	Variable	Variable			
	Red Pine	3		12		R	ed Oak	Low	< 5 feet	< 5 feet			
93	6139 - Mixed Lowland Forest Sapling		Sapling M	edium	3.7	4	4 Immature		۱.	Cut in 2021. Patchy aspen and mixed hardwood regeneration present. There is a good amount of shorth black spruce regeneration. Thick ald in a lot of areas. This stand is not fully stock but more time should allow			
	Canopy Species	y Species % Cover Size Class DBH Age		Age	Sub-Canopy Species		Density	ensity Avg. Height	Size				
	Quaking Aspen	40	Log	1	4	Та	ag Alder	Medium	5 - 10 feet	5 - 10 feet	conifers to become established.		
	Black Cherry	10	Log	1	4	Blac	ck Spruce	Medium	< 5 feet	< 5 feet			
	Black Spruce	50	Log	1	4						-		
94	4123 -	4123 - Red Oak			r Well	12.1	99	111-140	N/A		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 along the east edge.		
	White Pine	1		22		Re	ed Maple	High	Variable	Variable			
	Red Pine	1		22		Bigto	ooth Aspen	Low	Variable	Variable			
	Red Oak	68		14	99						-		
	Red Maple	3	Sapling	5									
	Paper Birch	2	Sapling	5									
	Bigtooth Aspen	20	Seedling	7	34								

Report 7 – Stands

DNR MICHIGAN

Stand	Level 4 C		Size De	nsity	Acres	Stand Age B	A Range	Managed Site		General Comments	
97	4130		Poletimber Well			46	111-140	N/A		Good quality aspen with some oak mixed in. Stand was left from past	
С	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvest due to an old trespass case.
	Red Maple	2	Seedling	7		W	hite Pine	Low	Variable	Variable	
Bi	ligtooth Aspen	80	Seedling	8	46	Ba	alsam Fir	Low	Variable	Variable	
	Red Oak	3		13	99	R	ed Oak	Low	< 5 feet	< 5 feet	
V	White Spruce	1		12					· ·		_
Q	uaking Aspen	14	Seedling	8							
100	4130	- Aspen		Poletimb	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.
	Red Oak	8		14	99	W	hite Pine	Trace	Variable	Variable	
	White Pine	4		13	99	Re	ed Maple	Medium	Variable	Variable	
	Red Maple	2	Sapling	5		Bigto	ooth Aspen	Medium	>20 feet	>20 feet	
Bi	ligtooth Aspen	83	Sapling	6	36			·			_
	Red Pine	3		13	99						
101	500 -	- Water		Unspe	cifed	9.9	0		No		Brule River
106	500 -	500 - Water		Unspe	cifed	8.0	0		No		Brule River
400	110 - Low Intensity Urban			Unspe	cifed	3.6			No		Power line
401	1 110 - Low Intensity Urban			Unspecifed		7.5			No		Power line
402	110 - Low Intensity Urban		an	Unspecifed		12.8			No		Power line
404	110 - Low li	ntensity Urb	an	Unspecifed		5.6			No		Power line ROW.