

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12055 Entry Year: 2027 Acreage: 1,532

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T42N R29W Sec 2-5, 8-11 T43N R29W Sec 35

Identified Planning Goals:

Manage all forested cover types in a sustainable manner. Develop aspen age class distribution as the SFMP Management Plan directs. Encourage species diversity and conifers in hardwoods.

Soil and topography:

Fine sandy loams dominate the uplands, with a smattering of rock outcrops. Lowlands are dominated by Carbondale-Cathro mucks. Topography is quite varied from rolling hills to rock outcrops with a fair amount of seeps.

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

Entirely State owned and surrounded by State forest land.

Unique Natural Features:

Tributaries to form the South Branch of the East Branch of the Sturgeon River.

Archeological, Historical, and Cultural Features:

Archaeological hit was verified to be outside of this compartment.

Special Management Designations or Considerations:

Cold water fisheries require 300' buffer.

Watershed and Fisheries Considerations:

300 foot buffer to the trout waters of the E. Br. of the Sturgeon, upstream from the Gene's Pond bridge for areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment

(https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. This compartment also contains Warren Pond- Fisheries Division's walleye rearing pond. As such, as water flowing into or out of the pond should have appropriate buffer widths. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

White-tailed deer was selected as a featured species in this compartment to manage for critical habitat conditions which include important conifers for winter cover, travel corridors and upland dispersal for forage. Forest openings will also be managed to provide important spring and summer forage. In addition, black bear was selected to manage for critically important lowland hardwoods, lowland conifers, vernal ponds and drainages, refuge trees, forest openings and mast producing trees and shrubs. Maximizing age class diversity, decreasing stand size and maintaining the conifer component in aspen stands will provide grouse, woodcock. Maintaining mature forest conditions will provide critical habitat for northern goshawk.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is roughly three miles west. There is some potential for development of sand & gravel within the

compartment on the uplands, but bedrock is near the surface in places, and the relatively thin glacial sediments appear to be clay-rich. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Significant past metallic mineral exploration test drilling was completed in the immediate vicinity of the compartment. Although the setting is suitable for the occurrence of metallic minerals, there has been no identified prospect and no recent leasing activity in the area involving State-owned mineral rights. Potential for future production of metallic minerals from within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Wells Grade accesses the south and east boundary of this compartment. Two-track roads and trails also cross into the interior.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There is a snowmobile trail in the far west portion of this stand. It is heavily used for hunting, ATV riding, trapping, and fishing. Gene's Pond campground and boat launch is located a few miles to the east.

Fire Protection:

Felch protection area.

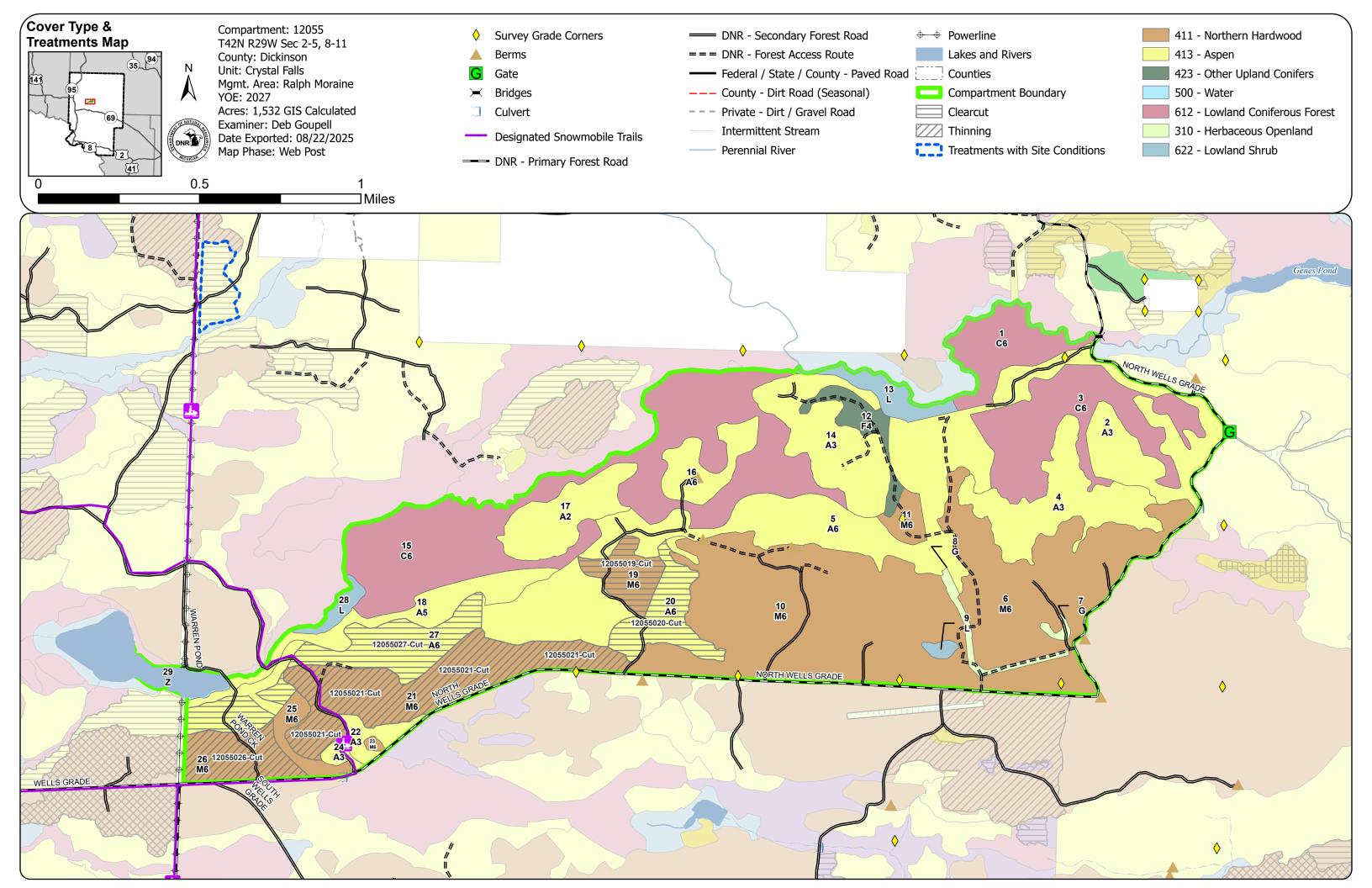
Additional Compartment Information:

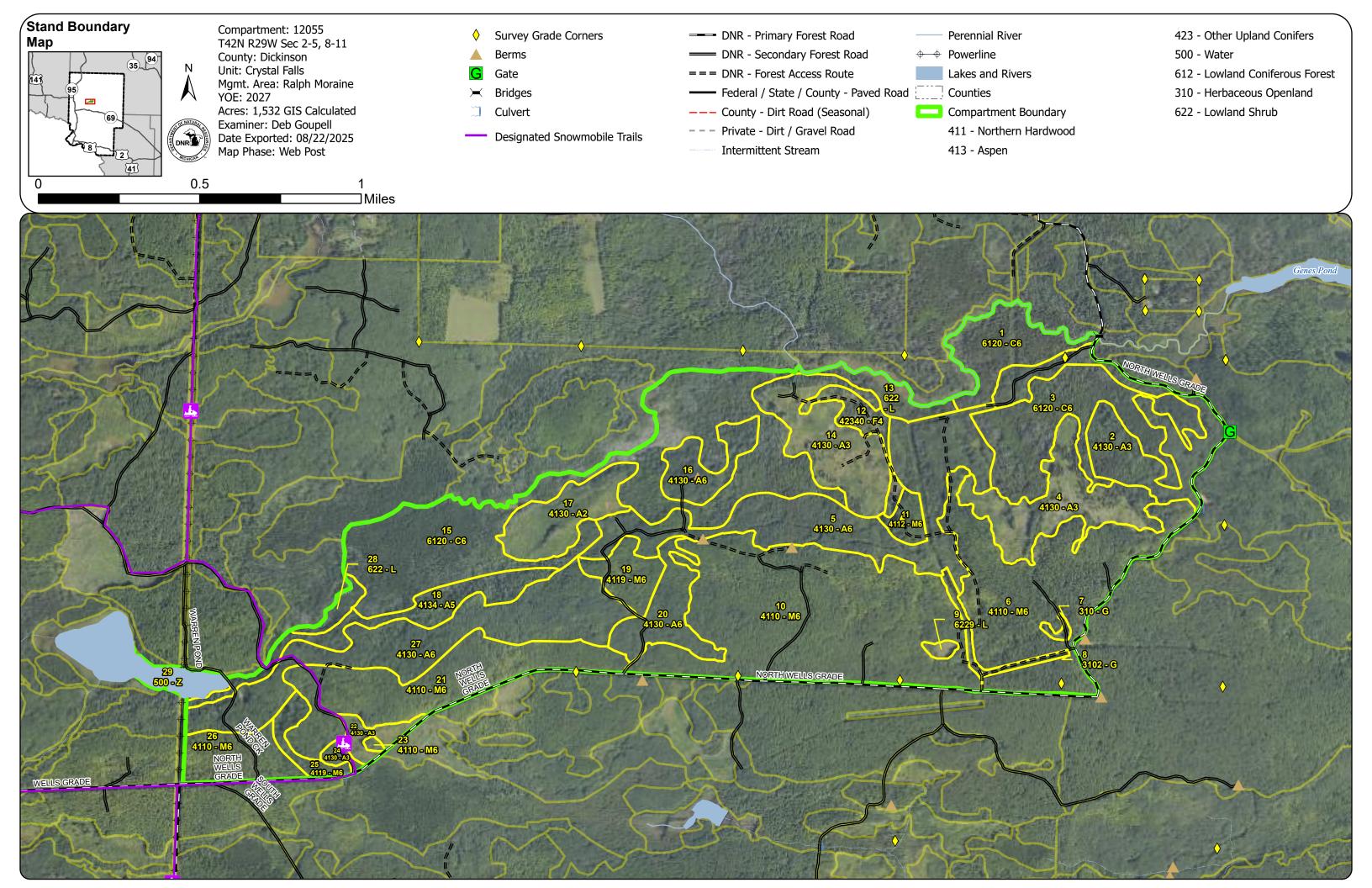
The following reports from the Inventory are attached:

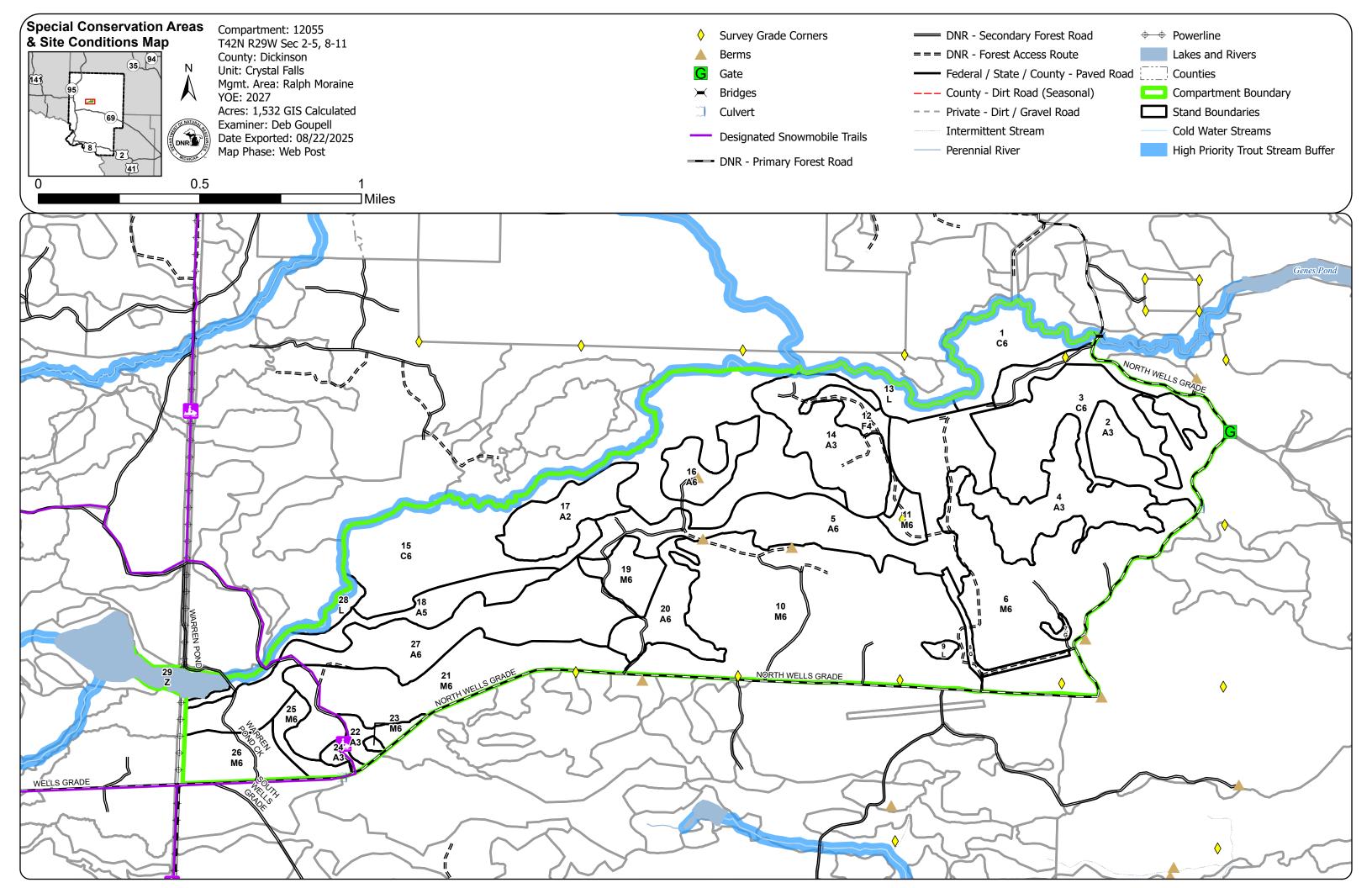
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment 55 Year of Entry 2027



Age Class

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Aspen	0	174	0	73	0	152	151	0	0	0	39	0	0	0	0	0	0	0	589
Cedar	0	0	0	0	0	0	0	0	0	0	0	330	0	0	0	0	0	0	330
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	0	0	0	0	0	21	23	500	0	0	0	0	0	0	544
Upland Spruce/Fir	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	53	174	0	73	16	152	151	0	0	21	62	830	0	0	0	0	0	0	1532



Report 2 – Treatment Summary

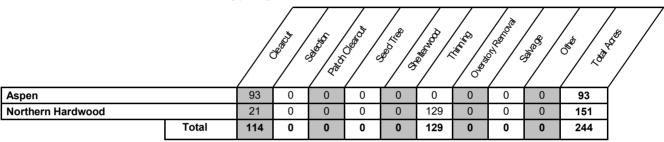
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

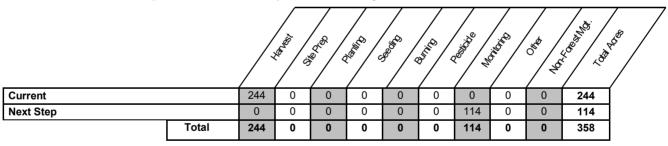
Compartment 55
Total Compartment Acres: 1,532

Commercial Harvest - 357 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Stand

CoverType

Size

Density

Stand

Age

BA

Range

Structure

Cover Type

Objective

n

d

2055 027	DINE MICHIGATI
Age	Habitat

Cut

Pro	posed	Treatm	ents
	2000	catiii	CIICO

Treatment

Name

19 12055019-Cut 21.2 4119 - Mixed 6 87 81-110 Harvest Clearcut 4319 - Mixed Cutting No Northern Hardwoods Upland Forest Record

Treatment

Type

Treatment

Method

Prescription Final harvest all trees 3" and up on east side of woods road; thin to BA 80-90 on west side of road, which will serve as retention for stand. Leave

<u>Specs:</u> some variety of species scattered across stand.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Acres

Regen:

Other west of road is primarily a pole stand on a rock knob

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

20 12055020-Cut 32.0 4130 - Aspen 6 57 Harvest Clearcut 413 - Aspen Planting No Record

<u>Prescription</u> Final harvest all stems 3" and greater. Retention is in far north = 5%, reflected by treatment also add 2 conifer pockets for retention per WLD

Specs: request

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Regen:
Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

21 12055021-Cut 97.3 4110 - Sugar Maple 6 103 81-110 Harvest Thinning 411 - Northern Planting No Association Hardwood Record

Prescription Thin to BA 80 following Compleat Marker: leave all present species represented, focus on releasing crowns on crop trees. Open around

<u>Specs:</u> basswood clumps to encourage more stump sprouting. Favor minor species especially yellow birch. Use snowmobile specs

Next Step Treatments:

Acceptable

Regen:

<u>Other</u>

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

 26
 12055026-Cut
 32.0 4110 - Sugar Maple
 6
 104 81-110
 Harvest
 Thinning
 411 - Northern
 Planting
 No Record

<u>Prescription</u>
Specs:
Thin to BA 80 following Compleat Marker: leave all present species represented, especially yellow birch, focus on releasing crowns on crop trees.
Open around basswood clumps to encourage more stump sprouting.

Next Step

Treatments:

<u>Acceptable</u>

Regen:

<u>Other</u>

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

S t a		Cı	rystal Falls	Mgt. Unit		Repoi	rt 3 '	Treatments		Compartme Year of Entr			
n d	Treatmen Name	t	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut	
27	12055027-	Cut	61.0	4130 - Aspen	6	51		Harvest	Clearcut	413 - Aspen	Planting Record	No	
Preso Spec			,	g all stems 3" and tually disappears (0				undary (6% of stan	nd): 300 ft buffer to	N.Br. Sturge	on river +	
<u>Next</u> <u>Treat</u>	<u>Step</u> Mo tments:	nito	ring, Natura	l Regen (Re-Inver	ntory)								
Acce Rege		oen,	mixed hard	wood, mixed softv	wood								
Other Com	<u>r</u> ment:												

Total Treatment Acreage Proposed: 243.5

Proposed Start Date: 10/01/2026

Site Condition:

Report 4 - Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 55
Year of Entry: 2027



Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available Acres 2F 3Н 3J 5E 435 376 60 25 26 9 0 Aspen 126 330 204 Cedar 126 0 10 10 0 Herbaceous Openland 0 27 27 0 Lowland Shrub 0 544 12 532 Northern Hardwood 12 0 16 16 0 0 Upland Spruce/Fir 16 16 0 0 Water 1,378 1,181 197 Total Forested Acres 25 38 126 9 86% 14% Relative Percent

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition	
1	Unavailable	Unavailable 2F: Too steep		Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments: Fisheries has reque	sted 300 feet						

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner



Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	5E: Long-Term Retention	n Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	8	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	3B: Threatened, endangered, and special concern species	8	3J: Water quality/BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
Comments:						
	Unavailable Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments:	(stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention Comments: Unavailable 5E: Long-Term Retention Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Threatened, endangered, and special concern species	(stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 8 Comments: Unavailable 5E: Long-Term Retention 1 Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments:	(stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 8 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 1 Unspecified Comments: Unavailable 3J: Water quality/BMPs 5 Unspecified Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3B: Threatened, endangered, and special concern species	Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 8 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs 5 Unspecified Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments: Unavailable 3J: Water quality/BMPs (stream, river, or lake) Comments:	Unavailable 3J: Water quality/BMPs (stream, river, or lake) Unavailable 5E: Long-Term Retention Unspecified Unspecified Unavailable 5E: Long-Term Retention 8 3J: Water quality/BMPs (stream, river, or lake) Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs (stream, river, or lake) Unavailable 3J: Water quality/BMPs 5 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs 5 Unspecified Uns

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 55
Year of Entry: 2027



13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	126	5A: Not able to obtain desirable regeneration	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Co	omments:						

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Mgt. Unit Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Report 7 - Stands



	d Level 4 Co	over Type		Size De	nsity	Acres	Acres Stand Age BA Range Managed Site		ite	General Comments	
1	6120 - Lov	vland Ceda	ır	Poletimb	er Well	41.3	105	_	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Tamarack	5	Seedling	8		Тад	g Alder	Low	5 - 10 feet	5 - 10 feet	
N	Iorthern White Cedar	95		10	105						_
2	4130	- Aspen		Sapling	Well	68.5	24	Immature	N/A	\	balsam and spruce more on far north. Some wetter areas. Iron Bridge $_{\!$
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	- 13 cut 2001
	Red Pine	1		12		White	e Spruce	Medium	Variable	Variable	
	Quaking Aspen	82	Log	4	24	Bals	sam Fir	Medium	Variable	Variable	
	White Pine	2		16							_
	Balsam Fir	5	Sapling	6							
	White Spruce	5	Sapling	6							
	Balsam Poplar	5	Log	2							
3	6120 - Lov	vland Ceda	ır	Poletimb	er Well	84.3	102	111-140	N/A	\	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Tamarack	9	Seedling	8		Tag	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Black Ash	2	Seedling	7							-
	White Spruce	7		12							
	Balsam Poplar	2		14							
N	Iorthern White Cedar	70		9	102						
	Black Spruce	10	Seedling	7							
4	4130	- Aspen		Sapling	Well	62.5	4	Immature	N/A	\	Minnesconsin TS cut 2021. VERY SHALLOW SOILS
	Canopy Species	% Cover	Size Class	DBH	Age						
N	Iorthern White Cedar	5		10							
	Balsam Poplar	25	Log	1							
	Quaking Aspen	60	Log	1	4						
	Red Maple	10	Log	1							
5	4130	- Aspen		Poletimb	er Well	126.3	40	81-110	N/A	\	Seeps and drainages throughout this stand. Smaller diameter in
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	center/wetter areas.
	Balsam Poplar	5	Seedling	8		Red	l Maple	Low	>20 feet	>20 feet	
	Quaking Aspen	90	Seedling	8	40	White	e Spruce	Low	Variable	Variable	
	White Spruce	5	Sapling	7		Bals	sam Fir	Medium	Variable	Variable	
6	4110 - Sugar M	laple Assoc	ciation	Poletimb	er Well	146.8	104	81-110	N/A	\	This portion was cut Elf Hardwood North in 1997. Minnesconsin TS cu
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	2021
	Basswood	40		14		Hazelı	nut (Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	10		12		White	e Spruce	Trace	Variable	Variable	
	Sugar Maple	50		11	104	Iro	nwood	High	Variable	Variable	
							nerwood	Medium	5 - 10 feet	5 - 10 feet	†

Compartment: 55 Year of Entry: 2027

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Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Si	te	General Comments
7	310 - Herbac	eous Open	land	None	2.1			No		trees closing in this opening
8	3102	- Grass		None	8.0			No		Old ELF line
9	6229 - Mixed Lowland Shrub		hrub	None	2.9		No			
10	4110 - Sugar Maple Association		ciation	Poletimber Well	223.7	104	81-110	N/A		There are drainages to watch out for. Wells Drains TS Thinned 2023.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Paper Birch	3		12	Sug	ar Maple	Trace	10 - 20 feet	10 - 20 feet	
	Basswood	30		12	Iro	onwood	Medium	Variable	Variable	
	Red Maple	10		10				'		
	Quaking Aspen	7		12						
	Sugar Maple	50		12 104						
11	4112 - Maple, Beec	h, Cherry A	ssociation	Poletimber Well	9.7	95	111-140	N/A		ParV-Wisco habitat type on Rubicon sand 18-35% slope. Based on this, I suggest managing even aged hardwood and wait at least another 10
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species Density		Avg. Height	Size	years to final harvest. There are many multi-stemmed trees and
	Basswood	10		12	Haze	Inut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	epicormic boles. Few quality trees. A second alternative would be to try
	Sugar Maple	40		10 95	Whi	te Spruce	Low	Variable	Variable	a heavy shelterwood by marking as much quality crop trees to a BA of 40-50 this would be more experimental. Well covered with princess
	Red Maple	50	Seedling	9 95	Ва	lsam Fir	Low	Variable	Variable	pine and lycopodium club mosses, making maple regeneration
										questionable.
12	42340 - Upla	and Spruce	/Fir	Poletimber Poor	16.1	38	1-50	N/A		Old opening filling in with various species
	Canopy Species	% Cover	Size Class	DBH Age						
	Balsam Fir	20	Sapling	6						
	Black Cherry	20	Sapling	5						
	Quaking Aspen	20		10						
	White Spruce	40	Sapling	7 38						
13	622 - Low	rland Shrub	1	None	16.3			No		OPIC - FMD: OI Stand Year Origin was 555
14	4130	- Aspen		Sapling Well	61.1	6	Immature	N/A		Humpback Ridge TS cut 2019. Retention is 100' buffer from stream includes red maple, cedar, white pine.
	Canopy Species	% Cover	Size Class	DBH Age						indudes red maple, cedar, while pine.
	Quaking Aspen	75	Log	1 6						
	Red Maple	15	Log	1						
	Balsam Poplar	5	Log	1						
No	orthern White Cedar	5	Seedling	9						

Report 7 - Stands

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Stand				Size Density	<u> </u>			Managed S	ite	General Comments
15				Poletimber Well				N/A		This is a very variable stand. Shallow soils, seeps and drainages
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species		Density	Avg. Height	Size	throughout.
	White Pine	1		16	Hazelnut	(Spp.)	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	3	Seedling	9	Tag A	lder	Low	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	3		14						
	Black Ash	5	Seedling	7						
	Balsam Fir	8	Seedling	8						
	Black Spruce	5	Seedling	7						
N	orthern White Cedar	65		9 104						
	White Spruce	10		11						
16	4130 - Aspen			Poletimber Well	25.4 40 Unspecified		N/A		Cut in 1985; few larger white spruce were left originally. Stand is on a	
	Canopy Species	s % Cover Size Clas		DBH Age	Sub-Canop	y Species	Density	Avg. Height	Size	rock ledge; east end is much heavier to conifer but has been heavily impacted by SBW in the past 10 years
	Quaking Aspen	85	Seedling	8 40	Hazelnut	(Spp.)	High	5 - 10 feet	5 - 10 feet	The state of the s
	White Spruce	15	Seedling	8	White S	pruce	Medium	Variable	Variable	
					Balsan	n Fir	Medium	Variable	Variable	
17	4130	- Aspen		Sapling Medium	38.9	38.9 6 Immature N/A			١	Very steep rock in center. Rocky with terrain. Buffer stream on north.
	Canopy Species	% Cover Size Class DBH Age								Humpback Ridge TS cut 2019. Southeast corner where hardwoods was
	Quaking Aspen	80	Log	1 6						heavier is not regenerating well yet.
	Red Maple	20	Log	1						
18 4134 - Aspen, Spruce/Fir Poletimber					n 39.0 90 N/A					At least 3 seeps and 2 different bed/banks. Very steep ridge. Black ash
	Canopy Species	% Cover Size Class DBI		DBH Age	Sub-Canopy Species		Density	Avg. Height	Size	swale. With hydrology and terrain, and buffer to Sturgeon River, stand is
	White Spruce	15	0.20 0.000	10	Balsan		High	Variable	Variable	factor limited.
	Balsam Fir	10		8	Hazelnut		Medium	5 - 10 feet	5 - 10 feet	
	Paper Birch	5		10		(11 /				
	Black Ash	2	Seedling	7						
	Quaking Aspen	63		14 90						
	Red Maple	5		10						
19	4119 - Mixed No	orthern Hard	dwoods	Poletimber Well	21.2	87	81-110	N/A	λ	Seepy, shallow soils. Very few quality stems except on west side of road
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canop	y Species	Density	Avg. Height	Size	(much defect, broken tops or limbs). Ash is dying. Trace amount of cedar. Thick with princess pine and lycopodium. Final harvest east of
	Red Maple	30	Seedling	8	Balsan	n Fir	Medium	5 - 10 feet	5 - 10 feet	road and thin west side(many pole sized trees) as retention.
	Yellow Birch	3	Seedling	8	White Spruce		Medium	5 - 10 feet	5 - 10 feet	
	Basswood	10		10	Hazelnut	(Spp.)	Medium	5 - 10 feet	5 - 10 feet	*
	Sugar Maple	40	Seedling	8 87						
	Black Ash	2	Seedling	6						
	Balsam Poplar	5	Caadling	0						
	Daisairi i Opiai	5	Seedling	8						

Report 7 - Stands

Compartment: 55 Year of Entry: 2027 DNR MICHIGAN

Stand				Size Density	Acres Stand Age BA Range			Managed Si	ite	General Comments Far north piece is poor quality maple on a rock outcrop.
20				Poletimber Well	33.7 57			N/A		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	5		10	Hazel	nut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	5		10	Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	90		10 57	White	e Spruce	Low	10 - 20 feet	10 - 20 feet	
					Suga	ar Maple	Medium	10 - 20 feet	10 - 20 feet	
					Iro	nwood	Low	Variable	Variable	
21	4110 - Sugar Maple Association			Poletimber Well	97.3	103	81-110	N/A		Thinned in 2001 Wells West TS. Steep hills in northwest. Ironwood very heavy in east 1/3 of stand. More conifer along north edge/rock knob
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Theavy in east 1/3 of stand. More confiler along north edge/rock knob
	Basswood	30		14	Iro	nwood	Low	Variable	Variable	
	Yellow Birch	5		10	White	e Spruce	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	55		12 103						<u>-</u>
	Quaking Aspen	10		12						
22	4130	- Aspen		Sapling Well	11.3	6	Immature	N/A		Humpback Ridge TS cut 2019
	Canopy Species	% Cover	Size Class	DBH Age						
	Quaking Aspen	75	Log	1 6						
	Black Ash	5	Pole	1						
	Balsam Poplar	20	Log	1						
23	4110 - Sugar N	Maple Assoc	ciation	Poletimber Well	1.3	94	81-110	N/A		Humpback Ridge TS thinned 2019
	Canopy Species	% Cover	Size Class	DBH Age						
	Basswood	40		12 94						
	Quaking Aspen	15		12						
	Red Maple	5		10						
	Sugar Maple	40		12 94						
24	4130	- Aspen		Sapling Well	4.4	27	Immature	N/A		Baby Wells TS cut 2001. Black ash is mostly dead (EAB)
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Balsam Poplar	10	Log	1	White	e Spruce	Low	< 5 feet	< 5 feet	
	Quaking Aspen	90	Log	1 27	Bal	sam Fir	Low	< 5 feet	< 5 feet	
25	4119 - Mixed No	orthern Hard	dwoods	Poletimber Well	12.3	94	81-110	N/A		There is a bed and bank from the Grade going north and eventually
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	disappears underground for a bit and reappears in bits in stand to the northwest. Most of the conifer in the north lobe has fallen out and there
	White Spruce	5		12	White	e Spruce	Low	Variable	Variable	is some windfall aspen there as well.
	Sugar Maple	30		11 94			1			<u>.</u>
	Basswood	20		14						
	Quaking Aspen	15		13						
	Red Maple	15		10						
	Balsam Poplar	10		14						

Report 7 - Stands



Stand	Level 4 Cover Type 4110 - Sugar Maple Association			Size Density Poletimber Well		Acres Stand Age B		BA Range	Managed Site		General Comments
26						32.0	104	81-110	N/A		Wells West TS thinned 2001. White ash regen is heavy on far east third
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of this stand. Basswood tops showing dieback. Terrain slopes down to
	Basswood 40 11		Leatherwood		Low	5 - 10 feet	5 - 10 feet				
	Sugar Maple	50		10	104	White Ash		Medium	10 - 20 feet	10 - 20 feet	
(Quaking Aspen	2		12		Ironwood		High	10 - 20 feet	10 - 20 feet	
	Yellow Birch 8 1		11		Balsam Fi		Low	w < 5 feet < 5 feet	< 5 feet		
27	4130 - Aspen		F	Poletimber Well		117.2 51		N/A		There are some older and larger trees on the north edge and far west	
	Canopy Species % Cover Size C		Size Class	ass DBH Age		Sub-Canopy Species		Density	Avg. Height Size	(south of Warren Pond)	
	White Spruce	3	Sapling	7		Sug	gar Maple	Low	10 - 20 feet	10 - 20 feet	
-	Balsam Poplar	10	Seedling	9		Whi	ite Spruce	Medium	Variable	Variable	
	Sugar Maple	2	Sapling	6		Ва	alsam Fir	Medium	Variable	Variable	
(Quaking Aspen	80	Seedling	9	51			,			•
	Balsam Fir	5	Sapling	7							
28	622 - Lowland Shrub		1	Nor	ne	7.4			No)	
29	500 - Water			None		16.4			No)	Warren Pond