

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12143
Entry Year 2023
Acreage: 763
County Iron

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner: Legal Description:

Sections 1-3, T43N-R31W and sections 35-36, T44N-R31W

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and topography:

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

State land mixed with company land and small private parcels. State land and company lands used mainly for forest products and hunting. Private lands have some camps and full time residences.

Unique Natural Features:

Butler Lake is just to the NW of compartment.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Butler Lake is near the northwest corner and may have wet areas in that region. 100ft. buffer if appropriate there.

Wildlife Habitat Considerations:

This compartment is located in the core part of the Mansfield Cut-Off

Deeryard. Maintenance and enhancement of both the existing lowland conifer stands and the upland conifer component is critical to support healthy deer numbers in the area.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is three miles to the southeast. There may be some potential for sand & gravel within the compartment on the uplands. Extensive iron ore exploration was completed in the area of the compartment by Longyear around 1917. However, the nearest historic iron ore mining occurred three miles to the southwest. There does not appear to be iron ore potential beneath the compartment (or at least not at depths where it would be economical to mine). Potential for other metallic minerals is unknown but is considered low at this time. There has been no metallic mineral leasing activity within the compartment in the last 35 years. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is East off Way Dam Road and south off Channing Road. Access to most of this compartment is through company lands.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting.

Fire Protection:

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Additional Compartment Information:

None.

The following reports from the Inventory are attached:

Total Acres by Cover Type and Age Class

Cover Type by Harvest Method

Proposed Treatments - No Limiting Factors

Proposed Treatments – With Limiting Factors

Stand Details (Forested and Nonforested)

Dedicated and Proposed Special Conservation Areas

Site Condition Details

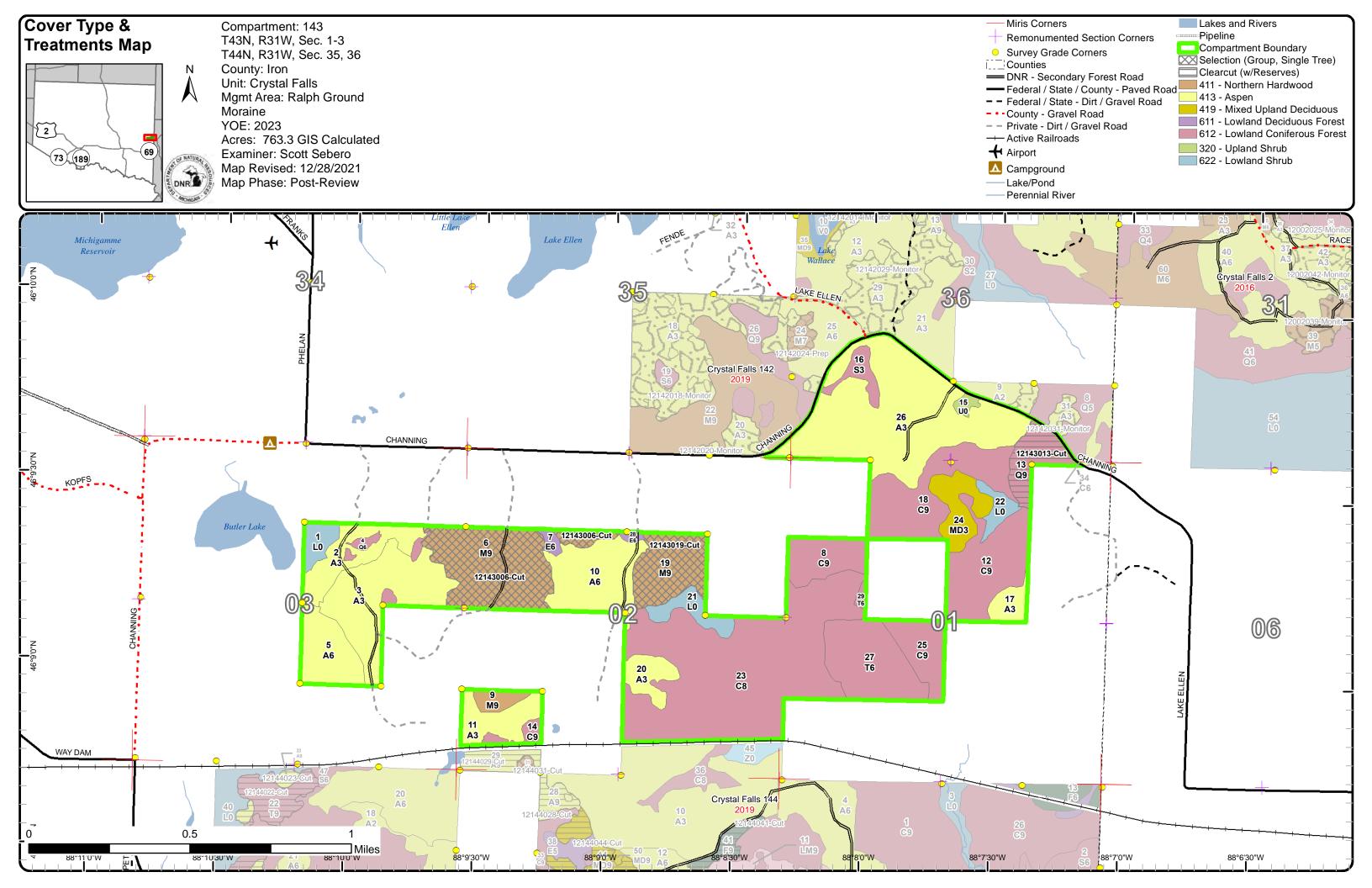
The following information is displayed, where pertinent, on the attached compartment maps:

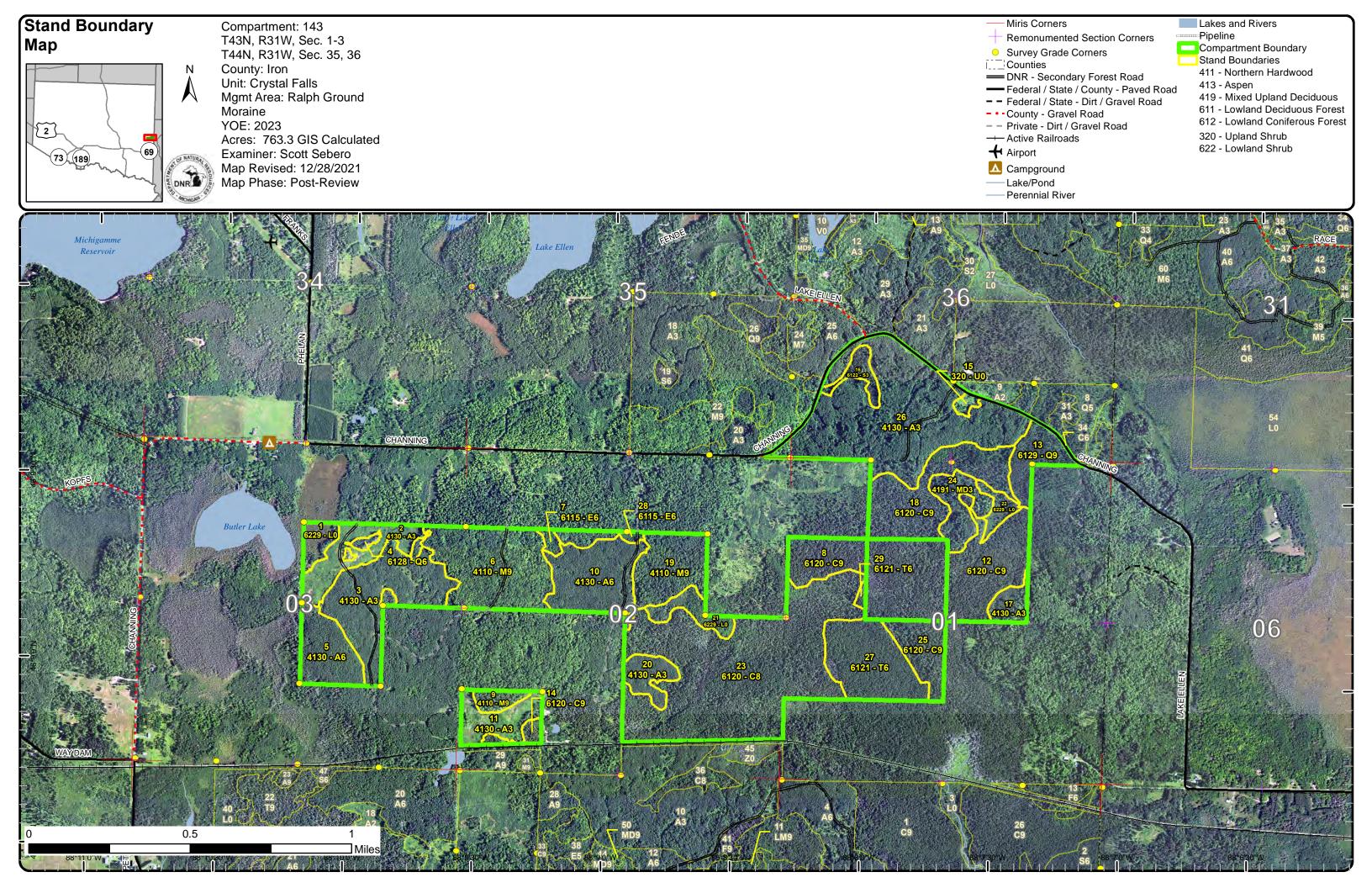
Base feature information, stand boundaries, cover types, and numbers

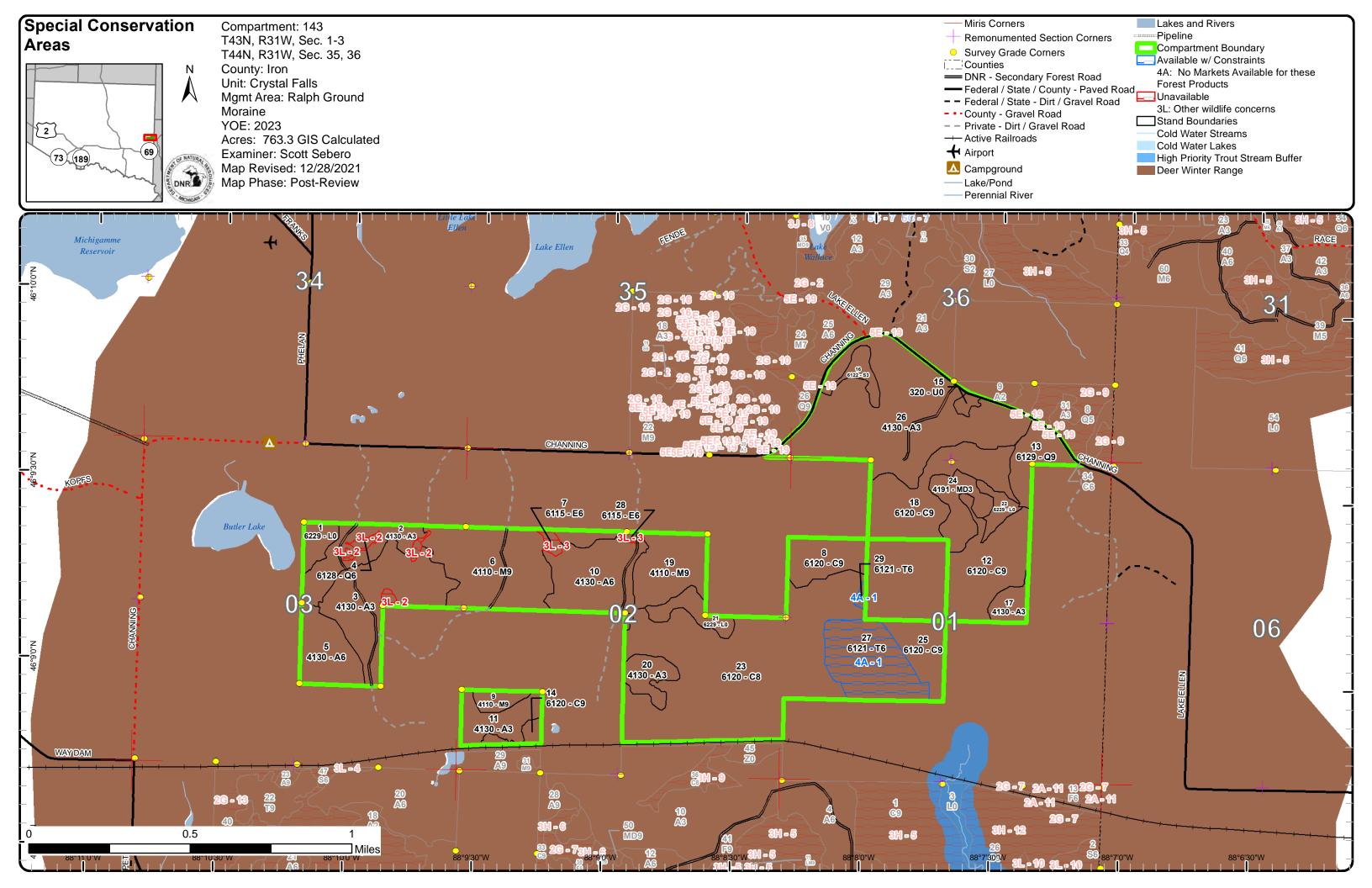
Proposed treatments

Site condition boundaries

Details on the road access system







Compartment 143 Year of Entry 2023

Crystal Falls Mgt. Unit Scott Sebero : Examiner



Age Class

	, ¥or		3 / 4	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	P K	3 / 6	& &	3/8		Ry &			70,7				84 / £	\$ Joe	To Take
Aspen	0	40	50	132	60	0	0	0	0	0	0	0	0	0	0	0	0	0	282
Cedar	0	0	0	0	0	0	0	0	0	0	0	275	0	0	0	0	0	0	275
Lowland Conifers	0	0	0	0	0	0	0	0	0	17	5	0	0	0	0	0	0	0	22
Lowland Deciduous	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Spruce/Fir	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	87	0	0	0	0	0	6	93
Tamarack	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	40
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	26	40	50	132	67	0	0	40	0	21	5	362	0	0	0	0	0	23	766



Report 2 – Treatment Summary

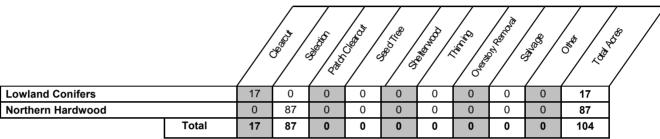
Crystal Falls Mgt. Unit Year of Entry: 2023

Acres of Harvest

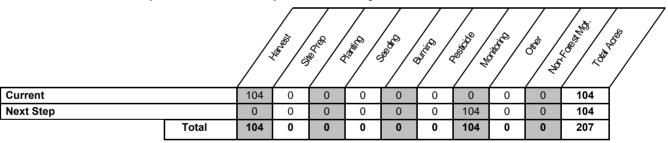
Compartment 143
Total Compartment Acres: 763

Commercial Harvest - 104 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Report 3 -- Treatments Crystal Falls Mgt. Unit

Compartment: 143 S Year of Entry: 2023 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment** Cover Type Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d

Approved Treatments:

12143006-Cut 58.8 4110 - Sugar Maple Sawtimber 141-Harvest Single Tree 411 - Northern Even-Aged No Association Well 170 Selection Hardwood

Prescription Mark to 80 BA. Leave all conifer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, aspen and fir.

Regen:

<u>Other</u> Comment:

Site Condition

Proposed Start Date: 10/1 /2022

12143013-Cut 6129 - Mixed Sawtimber 612 - Lowland No 16.8 80 81-110 Harvest Clearcut with Even-Aged Coniferous Lowland Well Retention Coniferous Forest

Forest

Prescription Cut all trees with one or more pulpwood stick, except no cedar or white pine will be cut.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of spruce and tamarack.

Regen:

Winter cut because of wet ground. Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

12143019-Cut 27.9 4110 - Sugar Maple Sawtimber 100 111-Harvest Single Tree 411 - Northern Even-Aged No Association Well 140 Selection Hardwood

Prescription Mark to 80 BA. Leave all conifer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, aspen and fir.

Regen:

<u>Other</u> Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Year of Entry: 2023

Compartment: 143

Availa	ability for	Managemer	nt				
Total	Acres	Acres Avail	Acres		Domina	nt Site	Conditions
Acres	Available	With Condition	Not Available		4A	3L	
280	280	0	0	Aspen			
275	275	0	0	Cedar			
22	17	0	5	Lowland Conifers		5	
4	0	0	4	Lowland Deciduous		4	
24	24	0	0	Lowland Shrub			
7	7	0	0	Lowland Spruce/Fir			
17	17	0	0	Mixed Upland Deciduous			
92	92	0	0	Northern Hardwood			
40	0	40	0	Tamarack	40		
2	2	0	0	Upland Shrub			
763	715	40	9	Total Forested Acres	40	9	
	94%	5%	1%	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.

Sit	e Dominant Site . Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	4A: No Markets Available for these Forest Products	40	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand looks healthy	and trees are only averaging	6" diame	ter. Monitor for health cor	ncerns.		
2	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	3L: Other wildlife concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Crystal Falls Mgt. Unit Compartment: 143





Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish speci- year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in low openings and savannas. Habitat areas are distinct from critical had endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high d communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	unique conditions adjacent to lakes, iversity of plants and wildlife. Riparian cts on water quality and quantity, as well



Stand	Level 4 C	over Type	:	Size De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments	MICHIGAN .
1	6229 - Mixed	l lowland s	hrub	Nonsto	cked	7.6		Unspecified	No			
2	4130	- Aspen		Sapling	y Well	22.6	6	Immature	N/A		Sale # 61-13	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	100	Sapling	1	6	Hazelnut	(American)	Medium	5 - 10 feet	Tall Shrub		
3	4130	- Aspen		Sapling	y Well	49.7	16	Immature	N/A		sale # 73-03	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	100	Sapling/Pole	4	16	Hazelnut	(American)	Medium	5 - 10 feet	Tall Shrub		
4	6128 - Lowland Dec	Coniferous iduous	, Mixed P	oletimb	er Well	4.8	95	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Balsam Fir	5	Pole	6		Tag	g Alder	Low	5 - 10 feet	Tall Shrub		
	Black Spruce	40	Pole/Log/Sap	8	95							
No	rthern White Cedar	10	Pole	8								
	Tamarack	15	Pole/Sapling	6								
	Red Maple	20	Pole/Log/Sap	8								
	Black Ash	10	Pole/Log/Sap	8								
5		- Aspen		oletimb			36	81-110	N/A			
	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	90	Pole/Sapling	6	36	Hazelnut	(American)	Medium	5 - 10 feet	Tall Shrub		
	Red Maple	5	Pole/Sapling									
	Balsam Fir	5	Pole/Sapling	6								
6	4110 - Sugar N	•		Sawtimb		58.8	100	141-170	N/A			
	Canopy Species		Size Class		Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Sugar Maple	60	Log/Pole/Sap	10	100	Iror	nwood	Medium	5 - 10 feet	Sapling		
	Basswood	40	Log/Pole	12								
7	6115 - Lo	owland Ash	n P	oletimb	er Well	2.4	85	81-110	N/A			
	Canopy Species	% Cover	Size Class		Age	Sub-Can	opy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	10	Log/Pole	10		Tag	g Alder	Low	5 - 10 feet	Tall Shrub		
	Balsam Fir	10	Pole	8								
	Black Ash	65	Pole/Log/Sap		85							
	Red Maple	10	Log/Pole/Sap									
	Black Spruce	5	Pole/Sap/Log	8								



Stand	d Level 4 C	over Type	;	Size De	ensity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments	MICHIGAN .
8	6120 - Lo	wland Ced	ar S	awtimb	er Well	19.3	100	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Balsam Fir	5	Pole/Log/Sap			T	ag Alder	Medium	5 - 10 feet	Tall Shrub		
No	orthern White Cedar	75	Log/Pole	10	100							
	Black Spruce	10	Pole/Log/Sap									
	Black Ash	10	Pole/Log/Sap	8								
9	4110 - Sugar M	<u>'</u>			er Well	5.7	100	81-110	N/A			
	Canopy Species		Size Class		l Age	Sub-Ca	nopy Species		Avg. Height	Size		
	Sugar Maple	70	Log/Pole/Sap		100	Ir	onwood	Medium	5 - 10 feet	Sapling		
	Basswood	30	Log/Pole	10								
10	4130	- Aspen	Р		er Well	36.3	35	81-110	N/A		sale # 22-83	
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	90	Pole/Sapling	6	35	Hazeln	ut (American)	Medium	5 - 10 feet	Tall Shrub		
	Red Maple	5	Pole/Sapling	6								
	Balsam Fir	5	Pole/Sapling	6								
11	4130	- Aspen		Saplin	g Well	16.9	6	Immature	N/A		Harvested 2015. Sale # 61-13.	
	Canopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	100	Sapling	1	6	Hazeln	ut (American)	Medium	5 - 10 feet	Tall Shrub		
12	6120 - Lo	wland Ced	ar S	awtimb	er Well	39.5	100	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Black Spruce	5	Pole/Log/Sap	8		T	ag Alder	Low	5 - 10 feet	Tall Shrub		
No	orthern White Cedar	90	Log/Pole	10	100							
	Tamarack	5	Pole/Log/Sap	8								
13	6129 - Mixed Conif	erous Lowl	and Forest S			16.8	80	81-110	N/A			
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size		
	Black Spruce	40	Pole/Log/Sap		80	T	ag Alder	Medium	5 - 10 feet	Tall Shrub		
No	orthern White Cedar	15	Log/Pole	10								
	Tamarack	45	Log/Pole/Sap	10	80							
14	6120 - Lo	wland Ced	ar S		er Well	4.1	100	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBI	l Age		nopy Species	Density	Avg. Height	Size		
	Balsam Fir	5	Pole/Log/Sap				alsam Fir	Low	10 - 20 feet	Pole		
	Black Spruce	25	Pole/Log/Sap			T	ag Alder	Medium	5 - 10 feet	Tall Shrub		
No	orthern White Cedar	50	Log/Pole	10	100							
	Red Maple	10	Log/Pole/Sap									
	Black Ash	10	Pole/Sap/Log	8								



Stand	Level 4 Co	over Type	;	Size De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
15	320 - Upl	land Shrub		Nonsto	cked	2.4	0	Unspecified	No		
16	6122 - Bla	ack Spruce	;	Sapling	y Well	7.0	30	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Speci	es Density	Avg. Height	Size	
	Black Spruce	70	Sapling/Pole	4	30	Wh	nite Pine	Low	10 - 20 feet	Sapling	
	Tamarack	30	Sapling/Pole	4					ı		
17	4130	- Aspen		Sapling	y Well	7.7	23	Immature	N/A		Poor quality log sized red maple and cedar in SE corner of stand.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Speci	es Density	Avg. Height	Size	
	Quaking Aspen	80	Sapling/Pole	4	23	Hazelnu	ıt (American	n) Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	5	Pole/Sapling	6						,	
No	rthern White Cedar	5	Log/Pole	10							
	Red Maple	10	Log/Pole/Sap	10							
18	6120 - Lov	vland Ceda	ar S	awtimb	er Well	I 44.0	100	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Speci	es Density	Avg. Height	Size	
	Black Spruce	10	Pole/Log/Sap	8		Та	ıg Alder	High	5 - 10 feet	Tall Shrub	
No	rthern White Cedar	80	Log/Pole	10	100						
	Tamarack	10	Log/Pole/Sap	10							
19	4110 - Sugar M	<u>'</u>		awtimb			100	111-140	N/A		
	Canopy Species	% Cover	Size Class		Age	Sub-Car	nopy Speci	es Density	Avg. Height	Size	
	Sugar Maple	80	Log/Pole/Sap		100	Whit	te Spruce	Medium	10 - 20 feet	Sapling	
	Basswood	15	Log/Pole	12							
	Red Maple	5	Log/Pole/Sap	10							
20		- Aspen		Sapling		11.7	26	Immature	N/A		sale # 001-93
	Canopy Species	% Cover			Age		nopy Speci		Avg. Height	Size	
	Quaking Aspen	90	Sapling/Pole	4	26	Hazelnu	ıt (American	n) Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	5	Pole/Sapling	5							
	White Spruce	5	Pole/Sapling	5							
21	6229 - Mixed	lowland sh	nrub	Nonsto	cked	10.2		Unspecified	No		
22	6229 - Mixed	lowland sh	nrub	Nonsto	cked	6.0	_	Unspecified	No		
						Sub-Car	nopy Speci	es Density	Avg. Height	0:	
						Sub-Cai	liopy opeci	es Density	5 - 10 feet	Size	



Stand	d Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age B	A Range	Managed	Site	General Comments	MICHIGAN
23	6120 - Lov	wland Ceda	ar Saw	rtimbe	r Mediur	m 149.9	100	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Balsam Fir	5	Pole/Log/Sap	8		Та	g Alder	High	5 - 10 feet	Tall Shrub		
No	orthern White Cedar	70	Log/Pole	10	100							
	Black Spruce	10	Pole/Log/Sap	8								
	Black Ash	5	Pole/Log/Sap	8								
	Tamarack	10	Log/Pole/Sap	10								
24	4191 - Mixed Upla Co	and Decidu onifer	uous with	Saplino	g Well	17.1	24 I	mmature	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	30	Sapling	4	24	Hazelnu	ıt (American)	Low	5 - 10 feet	Tall Shrub		
	Balsam Poplar	20	Sapling	4	24							
	Balsam Fir	30	Pole/Sapling	6								
	White Pine	10	Log/Pole/Sap	16								
	Red Maple	10	Sapling/Pole	4								
25	6120 - Lov	wland Ceda	ar Sa	wtimb	er Well	18.1	100	111-140	N/A			
25	6120 - Lov		ar Sa		er Well		100	111-140 Density	N/A Avg. Height	Size		
25			Size Class Pole/Log/Sap		l Age	Sub-Car						
	Canopy Species	% Cover 5 85	Size Class Pole/Log/Sap Log/Pole	6 10	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Canopy Species Black Spruce	% Cover	Size Class Pole/Log/Sap	DB H	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Canopy Species Black Spruce orthern White Cedar Tamarack	% Cover 5 85	Pole/Log/Pole Pole/Sap/Log	6 10 6	l Age	Sub-Car	nopy Species g Alder	Density	Avg. Height	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack	% Cover 5 85 10	Pole/Log/Sap Log/Pole Pole/Sap/Log	DBH 6 10 6 Sapling	100	Sub-Cai Ta	nopy Species g Alder	Density Medium	Avg. Height 5 - 10 feet	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack 4130	% Cover 5 85 10 - Aspen	Pole/Log/Sap Log/Pole Pole/Sap/Log	DBH 6 10 6 Sapling	100 Well	Sub-Car Ta	nopy Species g Alder 24 I	Density Medium mmature	Avg. Height 5 - 10 feet N/A	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species	% Cover 5 85 10 - Aspen % Cover	Pole/Log/Sap Log/Pole Pole/Sap/Log	DBH 6 10 6 Saplino	100 Well	Sub-Car Ta	phopy Species g Alder 24 Inopy Species	Density Medium mmature Density	Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen	% Cover 5 85 10 - Aspen 85	Pole/Log/Sap Log/Pole Pole/Sap/Log Size Class Sapling/Pole	DBH 6 10 6 Sapling DBH 4	100 Well	Sub-Car Ta	phopy Species g Alder 24 Inopy Species	Density Medium mmature Density	Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen Balsam Fir	% Cover 5 85 10 - Aspen 85 5	Pole/Sap/Log Size Class Pole/Sap/Log Pole/Sap/Log Size Class Sapling/Pole Pole/Sapling	DBH 6 10 6 Sapling DBH 4 6 6	100 Well	Sub-Car Ta	phopy Species g Alder 24 Inopy Species	Density Medium mmature Density	Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub		
No	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen Balsam Fir White Spruce White Pine	% Cover	Pole/Log/Sap Log/Pole Pole/Sap/Log Size Class Sapling/Pole Pole/Sapling Pole/Sapling XLog/Log/Pole	DBH 6 10	100 Well 1 Age 24 Cer Well	Sub-Car Ta 112.2 Sub-Car Hazelnu	24 Inopy Species It (American)	Density Medium mmature Density	Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub Size Tall Shrub		
26 27	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen Balsam Fir White Spruce White Pine 6121 -	% Cover	Pole/Sapling Pole/Sapling Sapling/Pole Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	DBH 6 10	100 Well 1 Age 24	Sub-Car Ta 112.2 Sub-Car Hazelnu 38.4 Sub-Car	24 Inopy Species It (American)	Medium mmature Density Medium	Avg. Height 5 - 10 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub Size Tall Shrub		
26 27	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen Balsam Fir White Spruce White Pine 6121 - Canopy Species orthern White Cedar	% Cover	Pole/Sapling Pole/Sapling Sapling/Pole Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	DBH 6 10	100 Well 1 Age 24 Cer Well	Sub-Car Ta 112.2 Sub-Car Hazelnu 38.4 Sub-Car	24 Inopy Species It (American)	Medium mmature Density Medium 141-170	Avg. Height 5 - 10 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height Variable	Size Tall Shrub Size Tall Shrub Tall Shrub		
26 27	Canopy Species Black Spruce orthern White Cedar Tamarack 4130 Canopy Species Quaking Aspen Balsam Fir White Spruce White Pine 6121 -	% Cover	Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Size Class Sapling/Pole Pole/Sapling Pole/Sapling XLog/Log/Pole	DBH 6 10 6 Sapling DBH 4 6 6 18 DBH DBH	100 Well 1 Age 24 Cer Well	Sub-Car 112.2 Sub-Car Hazelnu 38.4 Sub-Car Bar	24 Inopy Species It (American)	Density Medium mmature Density Medium 141-170 Density	Avg. Height 5 - 10 feet N/A Avg. Height 5 - 10 feet N/A Avg. Height	Size Tall Shrub Size Tall Shrub		

Crystal Falls Mgt. Unit

Report 7 - Stands



Stand	Level 4 Co	Level 4 Cover Type		ize De	ensity	Acres	Stand Age B	A Range	Managed \$	Site	General Comments	MICHIGAN
28	6 115 - Lowla		n Po	Poletimber Well		1.4	85	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
	Quaking Aspen	10	Log/Pole	10		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub		
	Balsam Fir	10	Pole	8	l l				1			
	Black Ash	65	Pole/Log/Sap	8	85							
	Red Maple	10	Log/Pole/Sap	10								
	Black Spruce	5	Pole/Sap/Log	8								
29	6121	Tamarack	Po	oletimb	er Well	1.3	60	141-170	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
No	rthern White Cedar	5	Log/Pole	10		Ва	Isam Fir	Low	Variable	Pole		
	Black Spruce	10	Pole/Sap/Log	6		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub		
	Tamarack	85	Pole/Log/Sap	6	60			'	1			