

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12144
Entry Year 2019
Acreage: 1,200
County Iron

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-17

Stand Examiner: Scott Sebero

Legal Description:

T43N-R31W SECTION 2, 10, 11, & 12.

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. Develop buffers on lakes and streams. Maintain and improve road system.

Soil and topography:

Nearly level to hilly, well drained to somewhat poorly drained, loamy soils on moraines and end moraines.

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

State lands mixed with company lands and private parcels. Lands used mainly for hunting and fishing.

Unique Natural Features:

Headwaters of the Ford River.

Archeological, Historical, and Cultural Features:

Multiple compartments were determined to have no known archaeological sites within them; we have no concerns for these compartments: 10, 14, 30, 50, 70, 75, 93, 112, 116, 138, 142, 144, 156, 166, and 186.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Mix of Way Dam drainage and Ford River watershed headwaters. Stand 29 there is a small pond/wetland int he western portion that should receive a 100 foot buffer. For all other riparian areas, BMPs should be followed to maintain canopy cover and prevent erosion into waterbodies.

Wildlife Habitat Considerations:

This compartment contains part of a critical deer wintering complex that provides shelter and forage for deer in Iron County. Featured species in this Management Area (Ralph Ground Moraine MA) include; deer, bear, grouse, woodcock and northern goshawk. Moose, eagles, osprey, and wolves all have been documented in this compartment. Red-shoulder hawk presence is highly probable. Management for Deer winter cover, including transition zones, movement corridors and conifer component throughout the forage stands is critical in this compartment. Aspen age class diversity is an important management goal to provide deer, bear, grouse and woodcock and goshawk habitat. The hemlock pine, spruce/fir component provides both winter cover for deer to access forage in uplands, and provides ideal habitat for black bears. Oak in the compartment provides mast important for most of the featured species identified for this MA.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in the area, but there may be some potential in the compartment. There has been extensive iron ore exploration in this area but never any mining. A significant magnetic anomaly crosses the area, and there may be metallic mineral potential. There are currently no active leases but the area has been leased in the past. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is through private and corporate land from Way Dam Road or Tenth Street by woods roads.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information:

E & LS Railroad track runs along north side of compartment.

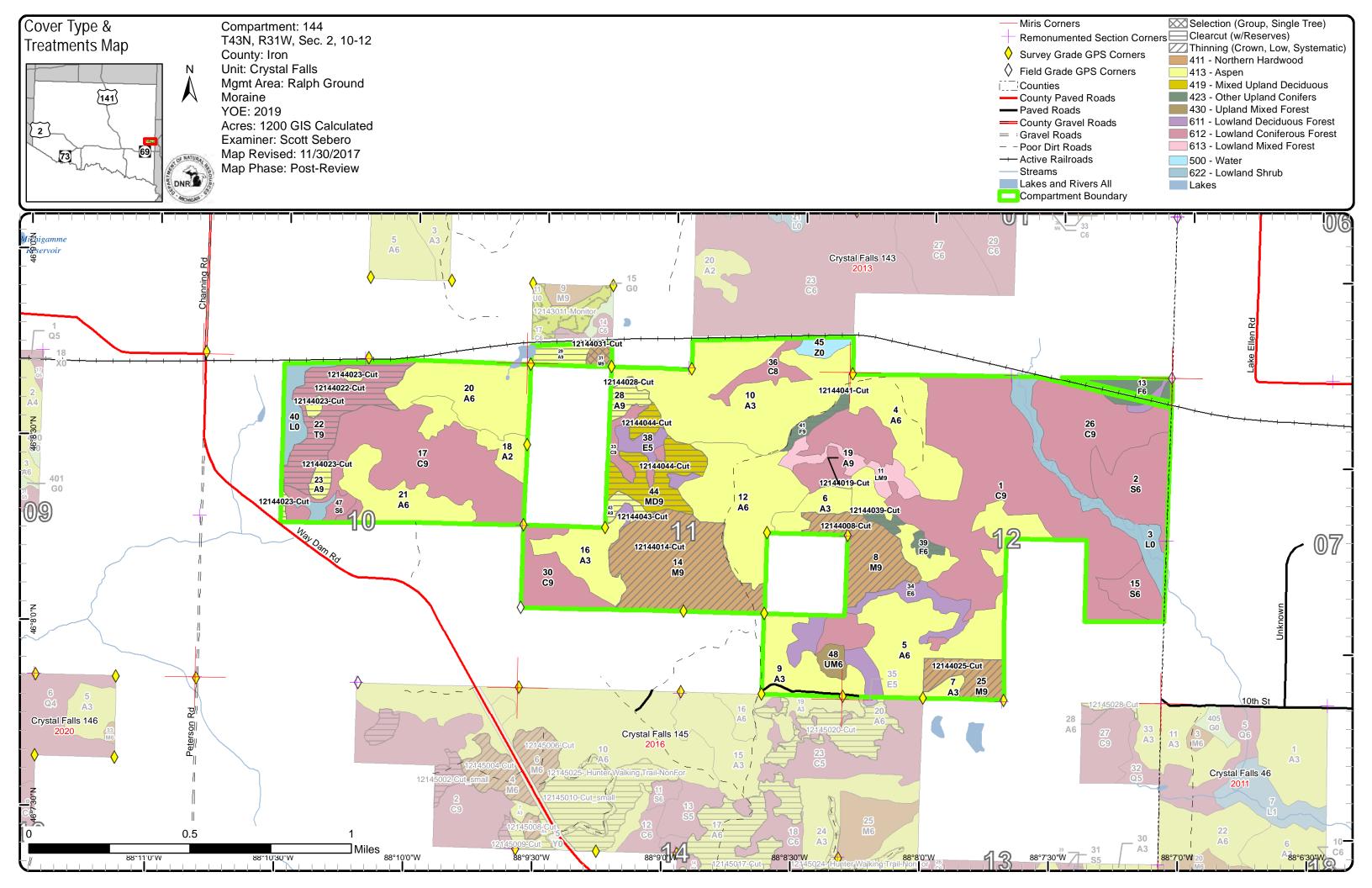
The following reports from the Inventory are attached:

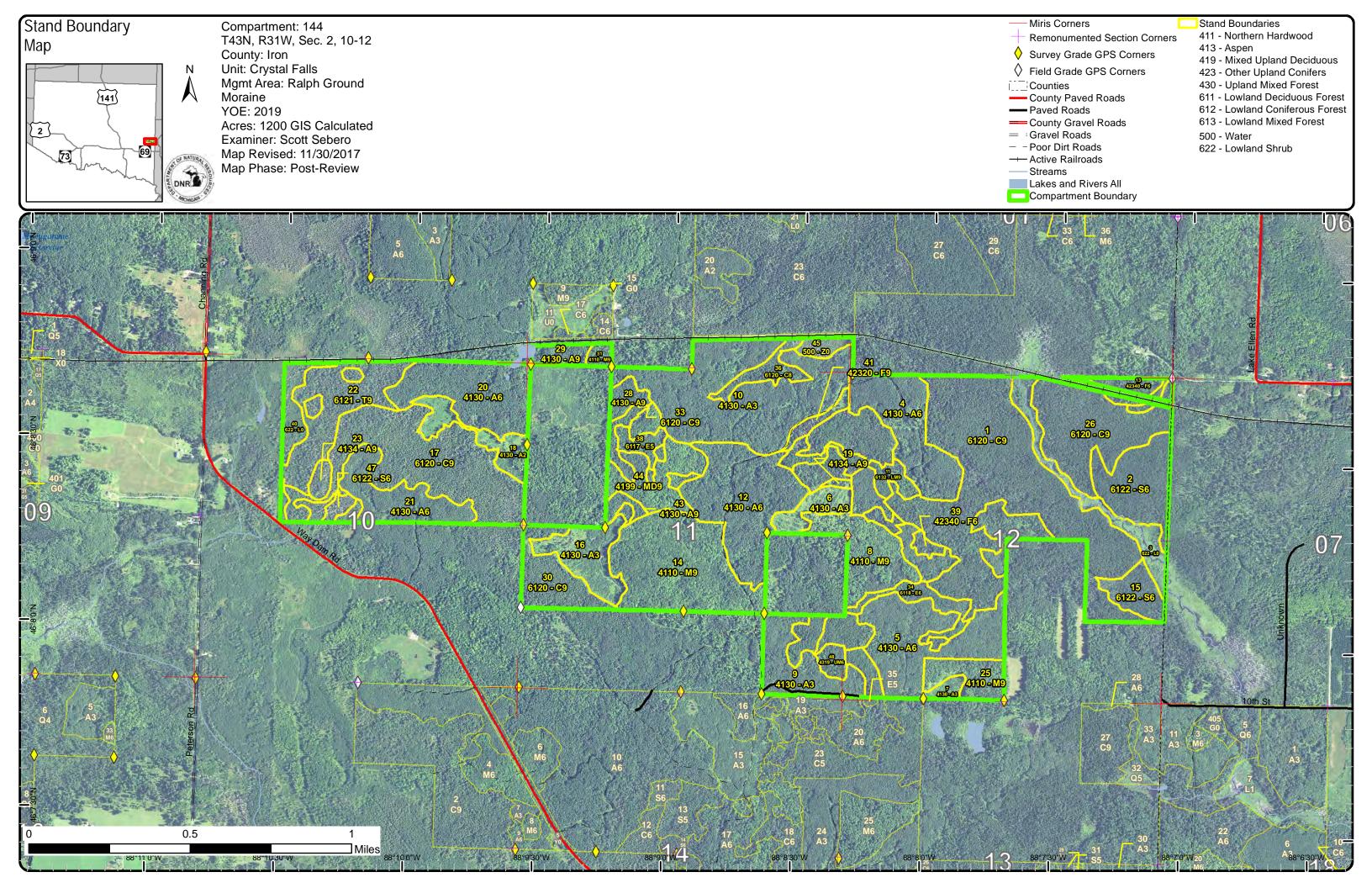
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

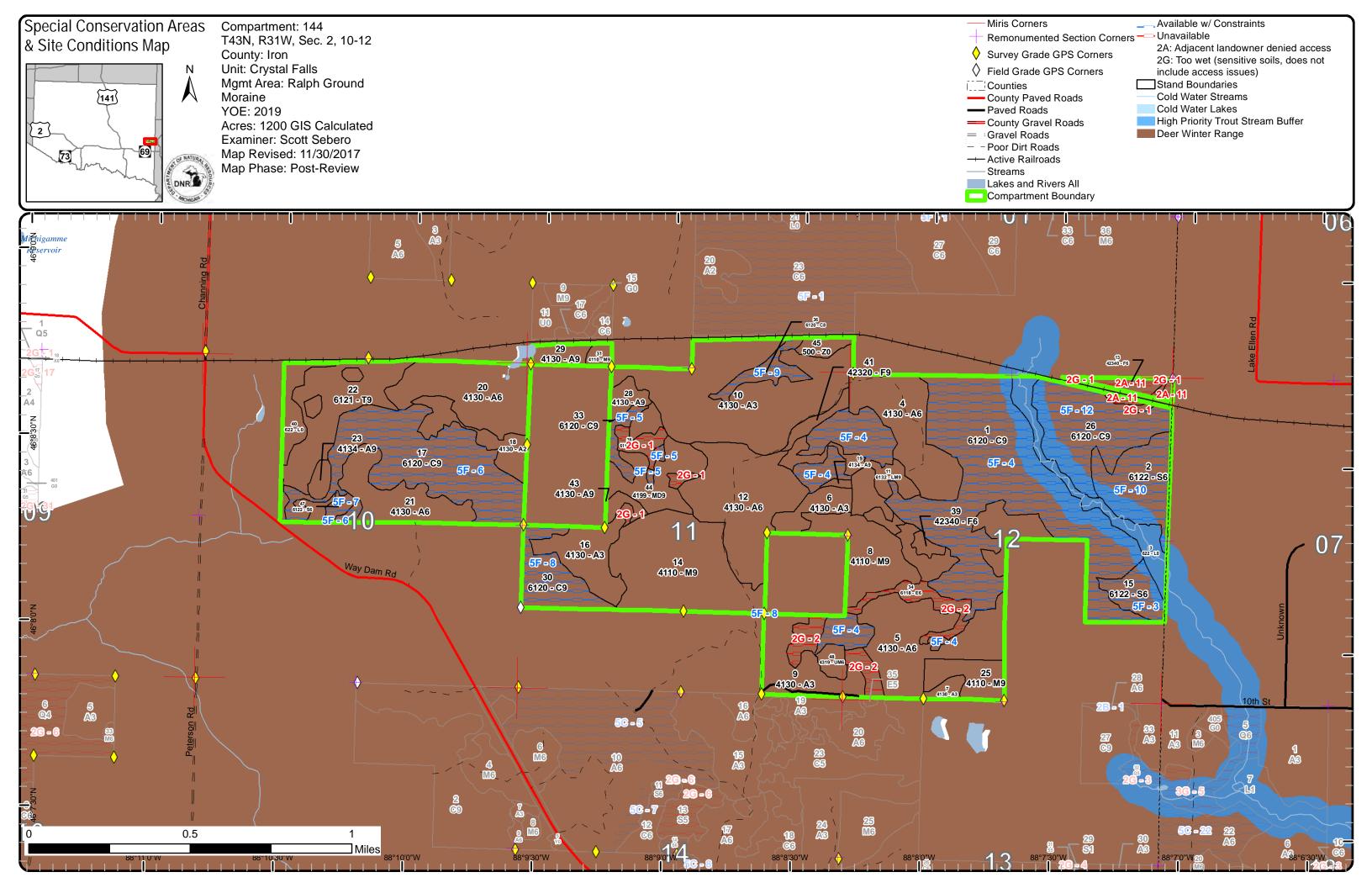
The following information is displayed, where pertinent, on the attached compartment maps:

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

Proposed treatments
Site condition boundaries
Details on the road access system







Crystal Falls Mgt. Unit Scott Sebero : Examiner



Compartment 144 Year of Entry 2019

Age Class

Aspen 0 57 28 97 157 116 7 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Cedar 0 <th>De Article Property of the Pro</th>	De Article Property of the Pro
Lowland Deciduous 0	472
Lowland Mixed Forest 0	371
	37
Lowland Shrub 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14
	36
Lowland Spruce/Fir 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50
Mixed Upland Deciduous 0	29
Northern Hardwood 0 0 0 0 0 0 0 0 121 0 0 0 0 0 0	121
Tamarack 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40
Upland Mixed Forest 0 0 0 0 5 0	5
Upland Spruce/Fir 0 0 0 0 6 8 0 0 5 0 0 0 0 0 0	19
Water 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5
Total 41 57 28 97 157 127 15 0 0 47 405 225 0 0 0 0 0 0	1199



Report 2 – Treatment Summary

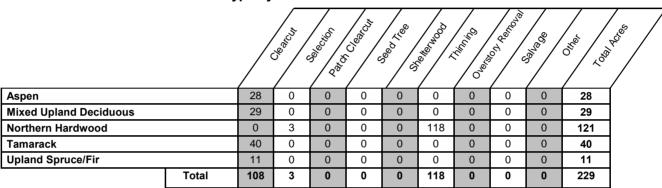
Crystal Falls Mgt. Unit Year of Entry: 2019

Acres of Harvest

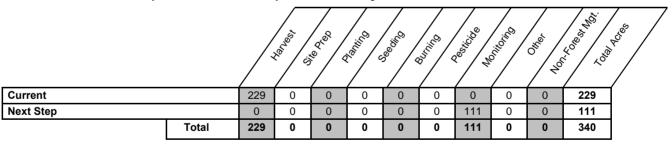
Compartment 144
Total Compartment Acres: 1,200

Commercial Harvest - 229 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 144 s Year of Entry: 2019 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Objective Name CoverType Density Age Range Type Method Structure **Status** d 8 12144008-Cut 31.6 4110 - Sugar Maple Sawtimber Crown Thinning 411 - Northern Approved 111-Harvest Even-Aged Association Well 140 Hardwood Proposal **Habitat Cut: No Site Condition:** Prescription Mark hardwood to 80 BA using Compleat Marker as guide. Cut all aspen, spruce and balsam with one or more pulpwood stick. Specs: Next Step **Treatments:** Acceptable Regen: Other Comment: **Proposed Start Date:** 10/01/2018 14 12144014-Cut 70.4 4110 - Sugar Maple Sawtimber 95 111-Harvest Crown Thinning 411 - Northern Even-Aged Approved Association Well 140 Hardwood Proposal **Habitat Cut: No Site Condition:** Prescription Mark hardwood to 80 BA using Compleat Marker as guide. Cut all aspen, spruce and balsam with one or more pulpwood stick. Specs: Next Step **Treatments:** <u>Acceptable</u> Regen: Other Comment: **Proposed Start Date:** 10/01/2018 12144019-Cut 1.2 4134 - Aspen, Sawtimber 94 141-Clearcut with 4134 - Aspen, Even-Aged Harvest Approved Spruce/Fir Well 170 Retention Spruce/Fir Proposal **Habitat Cut: No Site Condition:** Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No cedar, hemlock, red or white pine or oak will be cut. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:**

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

12144022-Cut 81-110 40.1 6121 - Tamarack Sawtimber 94 Clearcut with 613 - Lowland Harvest Even-Aged Approved Well Retention Proposal

Mixed Forest

Habitat Cut: No Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks,

Specs: except leave some clumps of black spruce when found next to cedar clumps. No cedar, hemlock, red or white pine or oak will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of tamarack, spruce and aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 144 s Year of Entry: 2019 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Method Objective Name CoverType Density Age Range Type Structure **Status** d 12144023-Cut 8.9 4134 - Aspen, Sawtimber 94 81-110 Clearcut with 4134 - Aspen, Approved 23 Harvest Even-Aged Spruce/Fir Well Retention Spruce/Fir Proposal **Site Condition: Habitat Cut: No** Prescription Cut all aspen and mixed hardwood 2" or greater DBH, except oak and cherry. Cut all cherry with two or more pulpwood sticks. Cut all spruce, Specs: balsam and tamarack with one or more pulpwood sticks. No cedar, hemlock, red or white pine or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:
Other
Comment:

Proposed Start Date: 10/01/2018

25 12144025-Cut 15.9 4110 - Sugar Maple Sawtimber 95 111- Harvest Crown Thinning 411 - Northern Even-Aged Approved Association Well 140 Hardwood Proposal

Habitat Cut: No Site Condition:

Prescription Mark hardwood to 80 BA using Compleat Marker as guide. Cut all aspen, spruce and balsam with one or more pulpwood stick.

Specs:

Next Step Treatments:

Acceptable

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

28 12144028-Cut 6.4 4130 - Aspen Sawtimber 44 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Approved Well Retention Spruce/Fir Proposal

Habitat Cut: No Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No

<u>Specs:</u> cedar, hemlock, red or white pine or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

29 12144029-Cut 7.1 4130 - Aspen Sawtimber 56 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Approved Retention Spruce/Fir Proposal

Habitat Cut: No Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No

Specs: cedar, hemlock, red or white pine or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other BMP buffer on little bog pond in NW corner of stand.

Comment:

Proposed Start Date: 10/01/2018

Compartment: 144 Year of Entry: 2019

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а	
n	

	Acres Stand Size Stand BA Tr CoverType Density Age Range	ment Treatment Cover Type Age Appro pe Method Objective Structure Stat	
31 12144031-Cut 3.3 4110 - Sugar Maple Sawtimber 95 141- Harvest Single Tree 411 - Northern Two-Aged Appropriate Selection Hardwood Prop		3 1 1	

Habitat Cut: No Site Condition:

Prescription Thin to 70 BA, but create some canopy gaps by removing some of the large maples and cleaning out the gaps.

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Mix of hardwood, softwood and aspen.

Regen: Other

Comment:

Proposed Start Date: 10/01/2018

4134 - Aspen, 39 12144039-Cut 6.0 42340 - Upland Poletimber 45 51-80 Harvest Clearcut with Even-Aged Approved Spruce/Fir Well Retention Spruce/Fir Proposal

Habitat Cut: No Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No

cedar, hemlock, red or white pine or oak will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

12144041-Cut 42320 - Upland Sawtimber 95 81-110 Clearcut with 4134 - Aspen, Even-Aged 5.1 Harvest Approved Well Retention Spruce/Fir Proposal Spruce

Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No

cedar, hemlock, red or white pine or oak will be cut. Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Habitat Cut: No

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

12144043-Cut 4.0 4130 - Aspen Sawtimber 44 111-Clearcut with 4134 - Aspen, Harvest Even-Aged Approved Well 140 Retention Spruce/Fir Proposal

Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No

Specs: cedar, hemlock, red or white pine or oak will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Habitat Cut: No

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018 Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 144
Year of Entry: 2019



t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	12144044-Cut	29.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	95	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Approved Proposal

Habitat Cut: No Site Condition:

<u>Prescription</u> Cut all aspen and mixed hardwood, except oak, 2" or greater DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No <u>Specs:</u> cedar, hemlock, red or white pine or oak will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

s

Acceptable Mix of maple, aspen, spruce and balsam.

Regen:
Other
Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 229.0

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 144
Year of Entry: 2019

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail Acres			Domina	nt Site	e Cond	itions
Acres	Available	With Condition	Not Available		5F	2A	2G	
472	472	0	0	Aspen				
371	0	371	0	Cedar	371			
36	0	0	36	Lowland Deciduous			36	
14	14	0	0	Lowland Mixed Forest				
36	36	0	0	Lowland Shrub				
50	0	50	0	Lowland Spruce/Fir	50			
29	29	0	0	Mixed Upland Deciduous				
121	121	0	0	Northern Hardwood				
40	40	0	0	Tamarack				
5	5	0	0	Upland Mixed Forest				
19	11	0	8	Upland Spruce/Fir		8		
5	5	0	0	Water				
1,200	734	422	45	Total Forested Acres	422	8	36	
	61%	35%	4%	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	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
							0440

Report 4 – Site Conditions

Crystal Falls Mgt. Unit Scott Sebero : Examiner Compartment: 144
Year of Entry: 2019

Health Considerations Comments: 5 Available 5F: Evaluated for Forest Health Considerations Comments: 6 Available 5F: Evaluated for Forest Health Considerations Comments: 7 Available 5F: Evaluated for Forest Health Considerations Comments: 7 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations Comments:	3	Available	5F: Evaluated for Forest Health Considerations	14	Unspecified	Unspecified	Unspecified	Unspecified
Health Considerations Comments: 5 Available 5F: Evaluated for Forest 8 Unspecified Unspe		Comments:						
5 Available 5F: Evaluated for Forest Health Considerations Comments: 6 Available 5F: Evaluated for Forest Health Considerations Comments: 7 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations 25 Unspecified Unspecif	4	Available		193	Unspecified	Unspecified	Unspecified	Unspecified
Health Considerations Comments: 6 Available 5F: Evaluated for Forest Health Considerations Comments: 7 Available 5F: Evaluated for Forest Health Considerations Comments: 8 Available 5F: Evaluated for Forest Health Considerations Comments: Unspecified		Comments:						
Available 5F: Evaluated for Forest 84 Unspecified Unsp	5	Available		8	Unspecified	Unspecified	Unspecified	Unspecified
Health Considerations Comments: 7 Available 5F: Evaluated for Forest 3 Unspecified Unspe		Comments:						
7 Available 5F: Evaluated for Forest 3 Unspecified Uns	6	Available		84	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 8 Available 5F: Evaluated for Forest 25 Unspecified Uns		Comments:						
3 Available 5F: Evaluated for Forest 25 Unspecified Un	7	Available		3	Unspecified	Unspecified	Unspecified	Unspecified
Health Considerations		Comments:						
Comments:	8	Available		25	Unspecified	Unspecified	Unspecified	Unspecified
		Comments:						

Report 4 – Site Conditions

Compartment: 144

Crystal Falls Mgt. Unit

Scott Sebero : Examiner Year of Entry: 2019

9	Available	5F: Evaluated for Forest Health Considerations	10	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
10	Available	5F: Evaluated for Forest Health Considerations	33	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
11	Unavailable	2A: Adjacent landowner denied access	8	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
12	Available	5F: Evaluated for Forest Health Considerations	52	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						

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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				

Crystal Falls Mgt. Unit Compartment: 144
Year of Entry 2019



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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish specified 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.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildle and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical hendangered 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 rendangered 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 communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well

S t	Crystal Falls	Crystal Falls Mgt. Unit			- Forested Stan	Compartment: 144 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Sawtimber Well	192.8	104	141-170	
2	6122 - Black Spruce	Poletimber Well	33.4	87	81-110	
4	4130 - Aspen	Poletimber Well	42.3	31	1-50	
5	4130 - Aspen	Poletimber Well	84.5	30	1-50	
6	4130 - Aspen	Sapling Well	11.7	6	Immature	
7	4130 - Aspen	Sapling Well	3.9	6	Immature	
8	4110 - Sugar Maple Association	Sawtimber Well	31.6	95	111-140	
9	4130 - Aspen	Sapling Well	28.0	17	Immature	
10	4130 - Aspen	Sapling Well	96.8	20	Immature	
11	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	14.1	94	51-80	
12	4130 - Aspen	Poletimber Well	60.7	44	81-110	
13	42340 - Upland Spruce/Fir	Poletimber Well	8.1	50	81-110	
14	4110 - Sugar Maple Association	Sawtimber Well	70.4	95	111-140	
15	6122 - Black Spruce	Poletimber Well	13.6	84	111-140	
16	4130 - Aspen	Sapling Well	24.0	6	Immature	Aspen regen poor in area shades by cedar.
17	6120 - Lowland Cedar	Sawtimber Well	84.0	94	141-170	
18	4130 - Aspen	Sapling Medium	16.7	6	Immature	
19	4134 - Aspen, Spruce/Fir	Sawtimber Well	1.2	94	141-170	Falling apart.

s t	Crystal Falls	Mgt. Unit		Report 7	– Forested Stands	Compartment: 144 Year of Entry: 2019	OF NATURAL PROPERTY OF NAT
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
20	4130 - Aspen	Poletimber Well	45.2	43	81-110		
21	4130 - Aspen	Poletimber Well	30.0	31	51-80		
22	6121 - Tamarack	Sawtimber Well	40.1	94	81-110		
23	4134 - Aspen, Spruce/Fir	Sawtimber Well	8.9	94	81-110		
25	4110 - Sugar Maple Association	Sawtimber Well	15.9	95	111-140		
26	6120 - Lowland Cedar	Sawtimber Well	52.4	97	111-140		
28	4130 - Aspen	Sawtimber Well	6.4	44	81-110		
29	4130 - Aspen	Sawtimber Well	7.1	56	81-110		
30	6120 - Lowland Cedar	Sawtimber Well	24.5	107	141-170		_
31	4110 - Sugar Maple Association	Sawtimber Well	3.3	95	141-170		_
33	6120 - Lowland Cedar	Sawtimber Well	7.5	107	141-170		_
34	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.6	95	51-80		
36	6120 - Lowland Cedar	Sawtimber Medium	10.2	95	51-80		
38	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	11.8	95	1-50		
39	42340 - Upland Spruce/Fir	Poletimber Well	6.0	45	51-80		
41	42320 - Upland Spruce	Sawtimber Well	5.1	95	81-110		
43	4130 - Aspen	Sawtimber Well	4.0	44	111-140		
44	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.0	95	111-140		

S t a n d	Crystal Falls Mgt. Unit			Report 7 – Forested Stands		Compartment: 144 Year of Entry: 2019	DNR DNR
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
47	6122 - Black Spruce	Poletimber Well	3.3	94	111-140		
48	4319 - Mixed Upland Forest	Poletimber Well	5.1	45	51-80		

Compartment: 144 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
3	622 - Lowland Shrub	22.3	No	TAG ALDER AND HEADWATERS OF THE FORD RIVER
40	622 - Lowland Shrub	14.1	No	
45	500 - Water	5.2	No	Beaver pond. Flooded cedar swamp. Cedar are all dead.