

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12074
Entry Year 2018
Acreage: 1,184
County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2016-08-21

Stand Examiner: Scott Sebero

Legal Description:

T41N R30W Section 8, 9 & 10

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:

Soil and Topography: Soils in this compartment range from mucks to fine sandy loam, some of the latter being poorly drained; topography is level in the swamps but mostly rolling and even a few steep hills.

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

Ownership Patterns, Development, and Land Use in and Around the Compartment: State-owned land and private ownership, used by loggers, hunters, fisherman and general recreationists. Land around the compartment is mostly privately owned, including some timber company land.

Unique Natural Features:

Badwater Creek. Rocky outcrops

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Deeryard

Watershed and Fisheries Considerations:

Badwater Creek

Wildlife Habitat Considerations:

This compartment is in the Ralph Ground Moraine Management Area which has the following featured species: American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. This compartment is now considered conditional winter range for deer, so management of uplands adjacent to critical winter cover is essential. Lowland conifers are managed as deer critical winter covers. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife and are essential bear spring and summer habitat. These covertypes also provide critical habitat for riparian species, as well as, movement corridors. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. 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 thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Archean Granite/Gneiss, Chocolay Group and Michigamme Formation outcrops beneath the glacial drift. There is not a current economic use for these rocks, but the granite/gneiss has building/dimension stone potential. A crushed marble quarry is located two miles to the north. The Groveland iron mine is located approximately six miles to the east. This compartment was previously leased for metallic exploration and there may still potential. A gravel pit is located two miles to the north and there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road 607 on east side, Peavy Falls Road to the south, trails through the compartment

Survey Needs:

Recreational Facilities and Opportunities:

Hunting, dispersed camping, fishing, trapping and hiking.

Fire Protection:

Norway & Felch protection area. There is minimal access to most upland stands; standard fire equipment may have difficultly utilizing existing trails.

Additional Compartment Information:

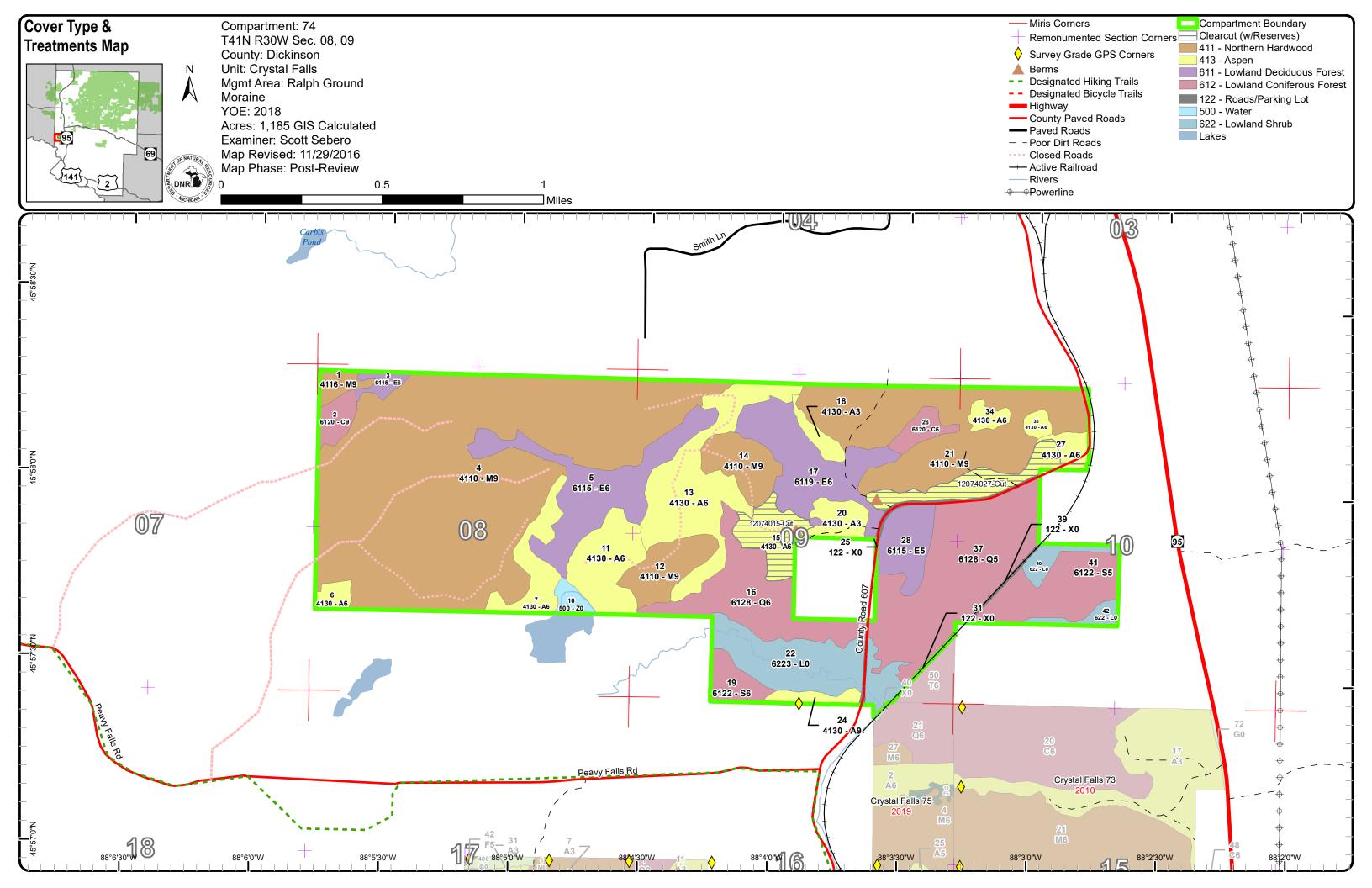
Details on the road access system

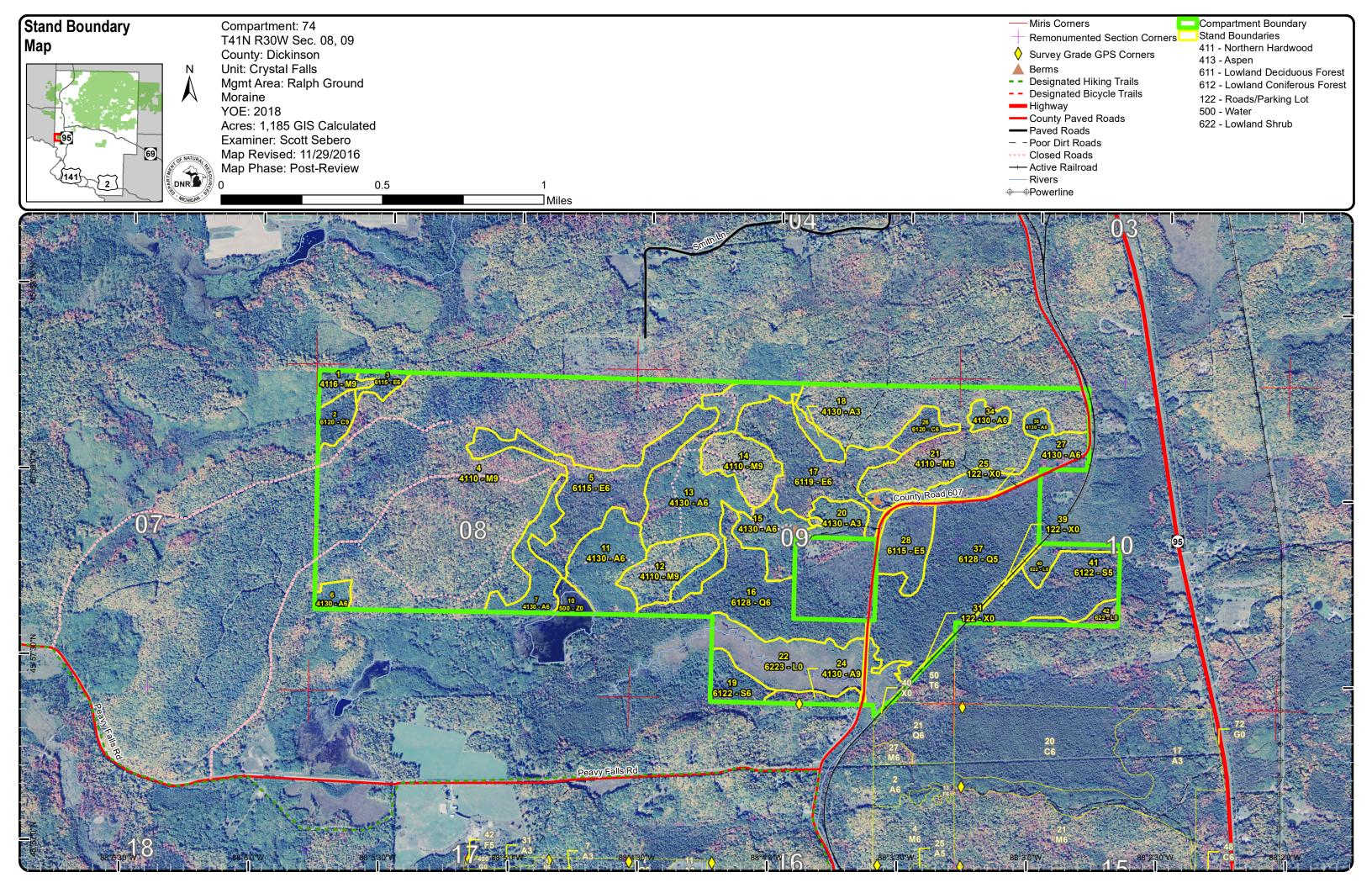
The following reports from the Inventory are attached:

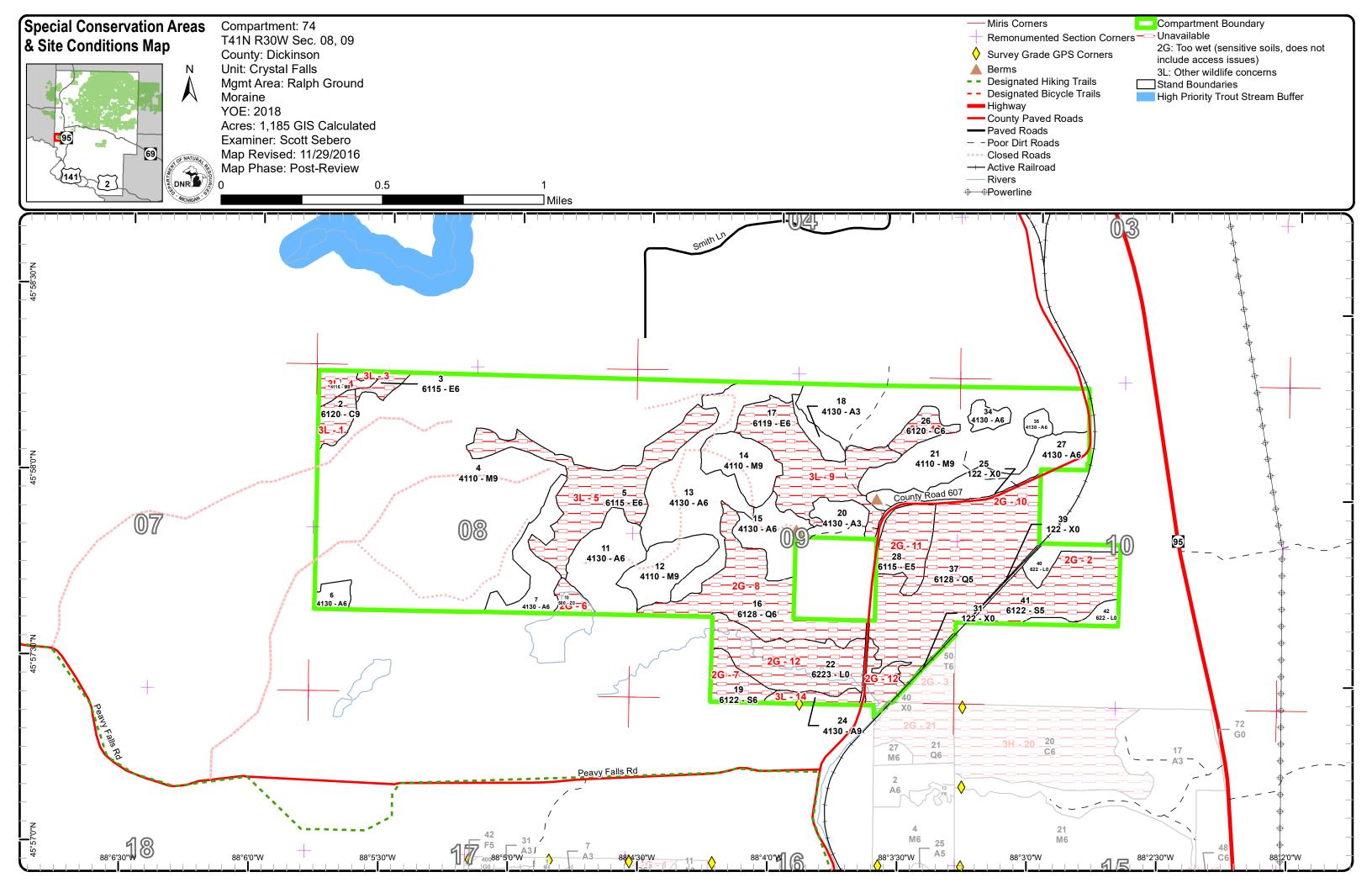
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 74 Year of Entry 2018

Scott Sebero: Examiner

Crystal Falls Mgt. Unit



Age Class

	/	Legis /						<u>/</u>					, S /,	<u>,</u>	<u>/</u>	<u>/</u>	<u>/</u> _s /	//	,
	Hoc		3 / 2	\$ \ \		2 / 12	100	6 / S		\$ ³ /\$, g		<u></u>	\$ \ \	N. P.	NEO X	g* Jre	A SO TO SO T
Aspen	0	0	19	0	75	62	52	0	0	7	0	0	0	0	0	0	0	0	213
Cedar	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	0	0	0	0	55	101	0	0	0	0	0	0	0	156
Lowland Deciduous	0	0	0	0	0	0	0	0	23	117	0	0	0	0	0	0	0	0	140
Lowland Shrub	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	13	0	41	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	0	0	0	520	0	0	0	0	0	0	0	0	520
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	83	0	19	0	75	62	52	0	36	708	151	0	0	0	0	0	0	0	1184



Report 2 – Treatment Summary

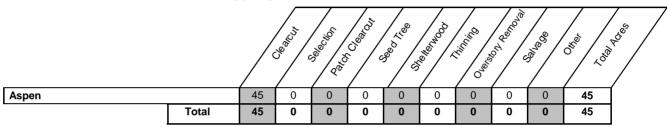
Crystal Falls Mgt. Unit Year of Entry: 2018

Acres of Harvest

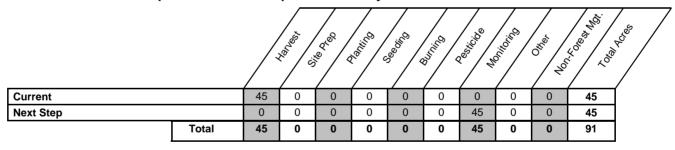
Compartment 74
Total Compartment Acres: 1,184

Commercial Harvest - 45 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: 74

Year of Entry: 2018

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a n d	Treatment Name	Acres	Stand CoverType	Size S Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status	"
15	12074015-Cut	21.6	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary	

Habitat Cut: No Site Condition:

Prescription Cut all aspen, maple and birch 2" or more DBH. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No red or white pine, Specs: cedar or hemlock will be cut. Protect sub merchantable ash.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other WLD-featured species: American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. Balancing the age classes of Comment: 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. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey.

Drainages and associated ash should be protected as critical bear habitat.

10/01/2017 **Proposed Start Date:**

12074027-Cut 23.8 4130 - Aspen Poletimber 81-110 Clearcut with 4134 - Aspen, Draft Field Harvest Even-Aged Well Spruce/Fir Retention Boundary

Habitat Cut: No Site Condition:

Prescription Cut all aspen and maple 2" or more DBH. Cut all spruce, balsam, tamarack, birch and ash with one or more pulpwood sticks. Leave wet ash Specs:

pockets and tops of rocks for retention. No red or white pine, cedar, oak or hemlock will be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

This compartment is in the Ralph Ground Moraine Management Area which has the following featured species: American woodcock, black bear, Other northern goshawk, ruffed grouse, and white-tailed deer. Balancing the age classes of aspen to provide early successional habitat through mature Comment: 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. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. Mast production, such as oak, cherry and raspberry

are encouraged to provide valuable forage for bear, deer, grouse and turkey. Drainages and associated ash should be protected as critical bear

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed:

45.4

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 74
Year of Entry: 2018

Availability for Management Total Acres Acres Avail **Dominant Site Conditions** Acres 3L With Condition Not Available Acres Available 2G 7 214 206 Aspen 0 18 18 0 Cedar 18 0 157 0 157 **Lowland Conifers** 157 0 140 140 23 0 **Lowland Deciduous** 117 0 69 15 54 Lowland Shrub 54 0 54 0 54 Lowland Spruce/Fir 54 0 519 512 7 Northern Hardwood 0 8 8 0 Urban 0 6 0 0 6 Water 6 742 442 1,184 **Total Forested Acres** 293 150

Relative Percent

37%

^{*}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	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Save for cover for de	eer and bear.					
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	3L: Other wildlife concerns	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments: Save for cover for de	eer and bear.					
	2046 40-FE-F2 AM Dom						DOL I

63%

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 74
Year of Entry: 2018

4	Unavailable	3L: Other wildlife concerns	7	2E: Road needed	Unspecified	Unspecified	Unspecified			
	Comments: Save for cover for deer and bear.									
5	Unavailable	3L: Other wildlife concerns	59	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified			
	Comments: Save for cover for deer and bear.									
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3H: Deer Wintering Areas	Unspecified	Unspecified	Unspecified			
	Comments:									
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified			
	Comments:									
9	Unavailable	3L: Other wildlife concerns	53	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified			
	Comments: Save for cover for deer and bear.									

Report 4 - Site Conditions

Compartment: 74
Year of Entry: 2018

Crystal Falls Mgt. Unit

Scott Sebero: Examiner

Riparian Habitat

Unspecified Unspecified Unspecified Unspecified 10 Unavailable 2G: Too wet (sensitive 101 soils, does not include access issues) Comments: 2G: Too wet (sensitive Unspecified Unspecified Unspecified Unspecified 11 Unavailable 23 soils, does not include access issues) Comments: 12 Unspecified 3J: Water quality / BMPs Unspecified Unspecified Unavailable 2G: Too wet (sensitive 54 soils, does not include (stream, river, or lake) access issues) **Comments:** 9 Unspecified Unspecified Unspecified Unspecified 13 Unavailable 3L: Other wildlife concerns Comments: Save for cover for deer and bear. 7 Unspecified Unspecified Unspecified Unspecified 14 Unavailable 3L: Other wildlife concerns **Comments:**

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Mgt. Unit

Compartment: #Type! Year of Entry:

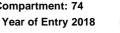


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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: 74





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	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA I	Riparian Area	influences the aquatic ecosystem and vice-versa streams and open water wetlands, riparian areas communities are ecologically and socially signifi	ial ecosystems in which the terrestrial ecosystem a. Because of the unique conditions adjacent to lakes, s harbor a high diversity of plants and wildlife. Riparian icant in their effects on water quality and quantity, as well duction, and their contribution to overall biodiversity.

S t	Crystal Falls	s Mgt. Unit		Report 7	– Forested Stand	S Compartment: 74 Year of Entry: 2018
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	7.1	85	111-140	
2	6120 - Lowland Cedar	Sawtimber Well	9.4	85	111-140	
3	6115 - Lowland Ash	Poletimber Well	5.6	85	81-110	
4	4110 - Sugar Maple Association	Sawtimber Well	354.9	85	81-110	
5	6115 - Lowland Ash	Poletimber Well	58.8	85	81-110	
6	4130 - Aspen	Poletimber Well	5.5	43	51-80	
7	4130 - Aspen	Poletimber Well	22.7	42	81-110	
11	4130 - Aspen	Poletimber Well	33.4	42	81-110	
12	4110 - Sugar Maple Association	Sawtimber Well	23.3	85	81-110	was part of Multificus T-sale closed 2001
13	4130 - Aspen	Poletimber Well	65.1	39	51-80	
14	4110 - Sugar Maple Association	Sawtimber Well	22.3	85	81-110	
15	4130 - Aspen	Poletimber Well	21.6	52	81-110	
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	55.4	85	51-80	
17	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	52.6	85	81-110	
18	4130 - Aspen	Sapling Well	6.4	15	Immature	was accessed from north; Bad Water Aspen T-sale
19	6122 - Black Spruce	Poletimber Well	12.7	75	Unspecified	
20	4130 - Aspen	Sapling Well	12.1	15	Immature	Badwater Aspen T-sale closed 2001
21	4110 - Sugar Maple Association	Sawtimber Well	112.0	85	81-110	

S t	Crystal Falls	s Mgt. Unit		Report 7	- Forested S	Stands	Compartment: 74 Year of Entry: 2018		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN . S	
24	4130 - Aspen	Sawtimber Well	7.1	80	81-110	containers, shingles	er? Old barbwire fence; garba b) behind house on state land s, out building and garbage.	ge (glass . Possible	
26	6120 - Lowland Cedar	Poletimber Well	9.0	95	111-140				
27	4130 - Aspen	Poletimber Well	30.2	50	81-110	Rock outer	ops and small wet ash pocke	ts.	
28	6115 - Lowland Ash	Poletimber Medium	22.6	75	51-80				
34	4130 - Aspen	Poletimber Well	5.5	38	51-80				
35	4130 - Aspen	Poletimber Well	3.9	38	51-80				
37	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	101.4	95	51-80				

6122 - Black Spruce

41

Poletimber

Medium

41.2

95

51-80

Report 8 - Nonforested Stands

Compartment: 74 Year of Entry: 2018



Stand	Cover Type	Acres	Managed Site	General Comments:
10	500 - Water	5.6	No	
22	6223 - Inundated Shrub Swamp	53.9	No	
25	122 - Road/Parking Lot	5.6	No	CR 607
39	122 - Road/Parking Lot	2.0	No	Railroad track.
40	622 - Lowland Shrub	8.5	No	
42	622 - Lowland Shrub	6.7	No	Small upland piece in SE corner of stand.