

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment	12086
Entry Year	2017
Acreage:	1,233
County	Dickinson
Management Area:	Groveland

**Revision Date: 2015-07-27** 

Stand Examiner: Linda Lindberg

# Legal Description:

T41N,R29W sec 35 and 36

#### **Identified Planning Goals:**

This compartment is in the Groveland Management area which is dominated by three natural communities: dry mesic northern forest, mesic northern forest and poor conifer swamp. This area is on a bedrock controlled ground moraine. The goal in areas that are operable is to put the best growth on the best stems in the hardwoods while taking the opportunity to promote diverse wildlife values. Also, to work toward age class diversity in the aspen.

#### Soil and topography:

Several drainages run east and west in this compartment. One makes a fairly deep valley near the center of the compartment. There are some steep areas some of which are not harvestable.

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

Small private ownership is found in and around this compartment.

# **Unique Natural Features:**

# Archeological, Historical, and Cultural Features:

# **Special Management Designations or Considerations:**

The Carney Lake Outlet and a creek that comes from Benton Lake, flow through this compartment.

#### Watershed and Fisheries Considerations:

The headwaters of Breen Creek are in this compartment. Breen Creek eventually flows into the Sturgeon River (a Type I Trout Stream). 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:

This compartment is located on the southern-most portion of the historic Camp Suicide Deer Wintering Complex. Whitetailed deer was selected as a featured species to manage for critical habitat conditions which include important conifers, primarily hemlock, cedar and white pine, for winter cover, travel corridors and upland dispersal for forage. Black bear habitat management includes protecting and enhancing riparian corridors, lowland hardwoods, lowland conifers, vernal ponds, drainages, refuge trees, mast producing trees and shrubs. Maintaining mature forest conditions will provide critical habitat for northern goshawk and Blackburnian warbler. This compartment has a diverse mixture of types and age classes in many of the stand types.

# Mineral Resource and Development Concerns and/or Restrictions

#### Vehicle Access:

Access is fairly good when roads are dry. There are many areas here that have thin soils that perch water.

# Survey Needs:

No survey needs in this compartment.

## **Recreational Facilities and Opportunities:**

Good hunting, fishing, trapping and cross country skiing opportunity.

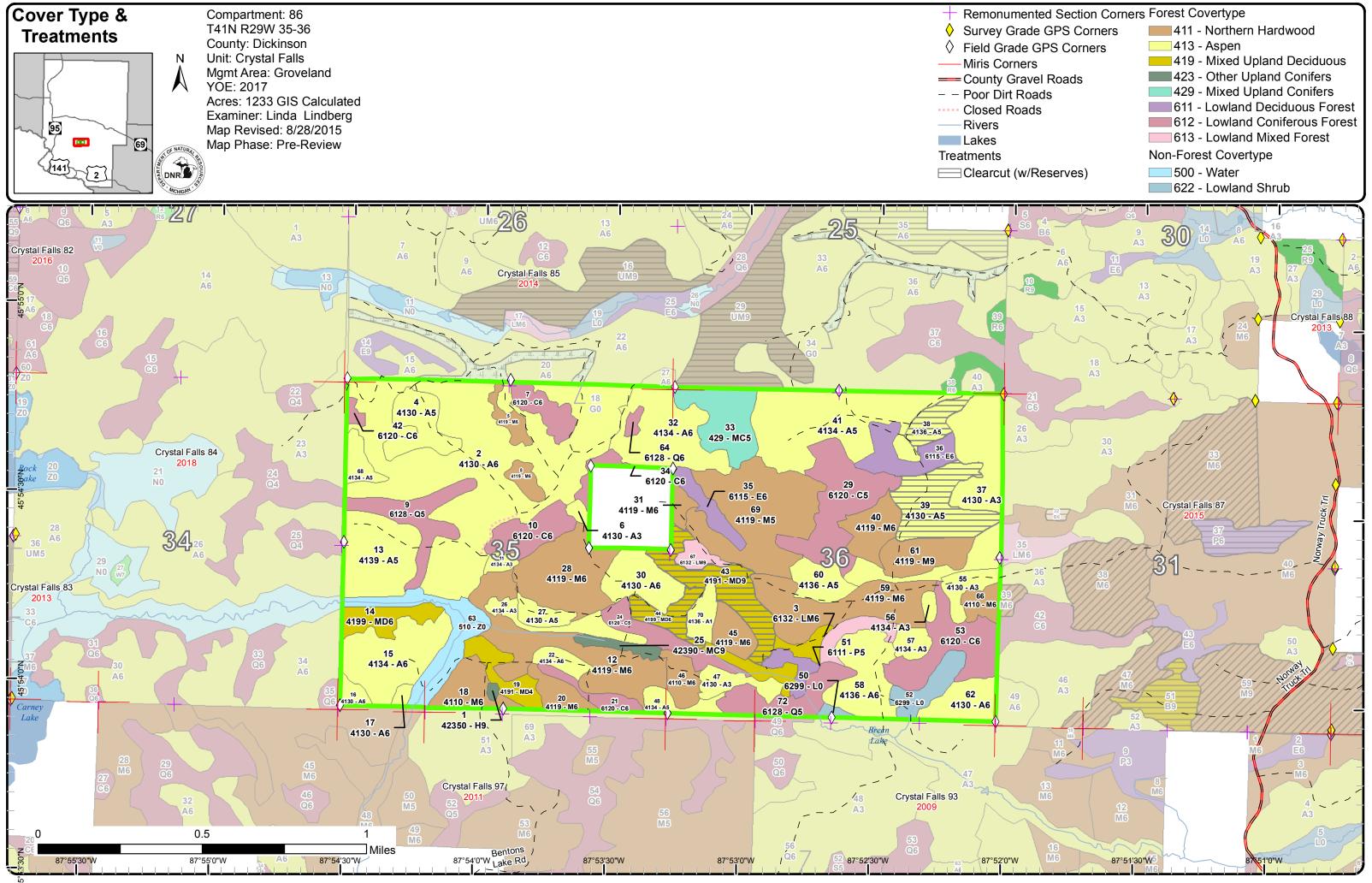
#### **Fire Protection:**

Good access for south Dickinson.

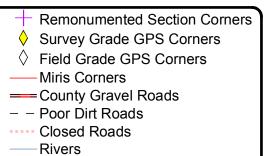
**Additional Compartment Information:** 

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

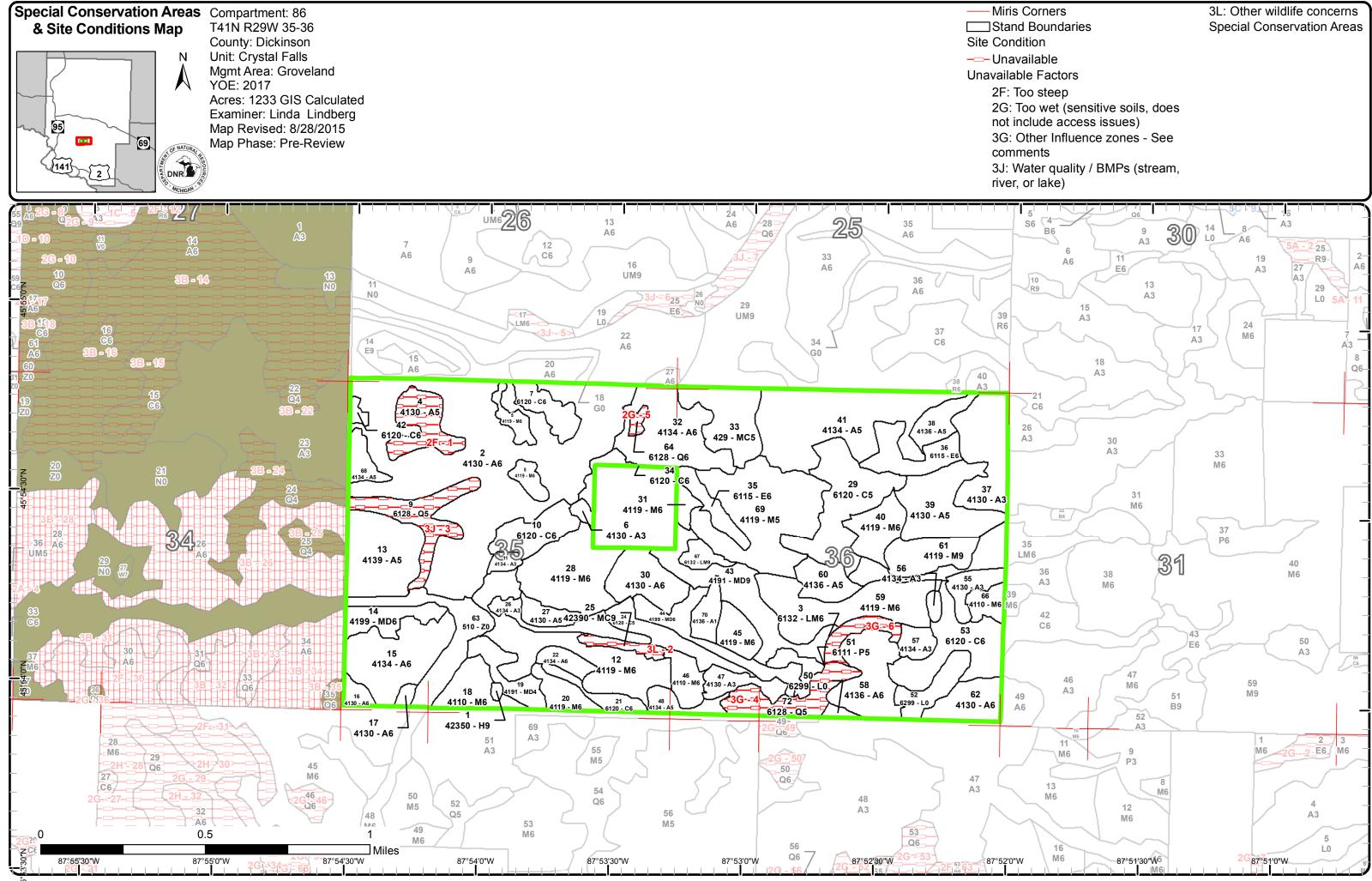
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system



Compartment: 86 T41N R29W 35-36 County: Dickinson Unit: Crystal Falls Mgmt Area: Groveland YOE: Stand Boundary Мар Ν Acres: GIS Calculated Examiner: 95 Map Revised: 8/28/2015 Map Phase: Pre-Review 69 OF NATURAL 141 2 2 ( 0.5 1 □Miles 87°54'30"W







# Report 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit



Age Class

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Aspen	0	8	87	37	88	286	0	31	0	24	0	0	0	0	0	0	0	0	561	l
Cedar	0	0	0	0	0	0	0	0	0	37	27	0	0	0	0	0	0	0	64	l
Lowland Aspen/Balsam Poplar	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6	
Lowland Conifers	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21	l
Lowland Deciduous	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17	
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	l
Mixed Upland Deciduous	0	0	0	0	0	12	0	0	31	0	0	0	0	0	0	0	0	31	74	l
Northern Hardwood	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	0	169	266	
Upland Conifers	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24	
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	l
Total	27	8	87	37	88	304	17	31	31	203	27	0	0	0	0	0	0	200	1060	

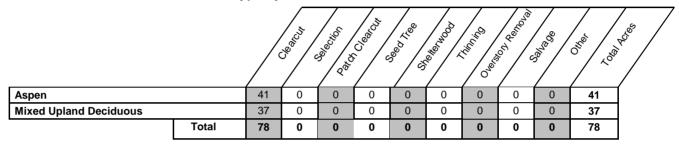




Crystal Falls Mot Unit

CHIGH	orystar r ans mgt. orne		Compartment	80
	Year of Entry: 2017	Acres of Harvest	Total Compartment Acres:	1,233
		Commercial Harvest - 78		
		Harvests with Site Condition - 0		
		Next Step Harvest - 52		
		Habitat Cut - 0		

# **Cover Type by Harvest Method**



# Proposed and Next Step Treatments by Method

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Current		78	0	0	0	0	0	0	0	0	78	
Next Step		52	0	0	0	0	0	26	0	0	78	
	Total	129	0	0	0	0	0	26	0	0	156	

Crystal Falls Mgt. Unit **Report 4 -- Treatments Compartment: 86** s Year of Entry: 2017 t а Treatment Stand Treatment Treatment Cover Type Acres Stand Size BA Age Approval n Name CoverType Density Age Range Type Method Objective Structure Status d 4136 - Aspen, 12086038-Cut Approved 38 9.8 Poletimber 55 51-80 Harvest Clearcut with 413 - Aspen Even-Aged Mixed Conifer Medium Retention Proposal Habitat Cut: No Site Condition: Prescription Cut all trees 2 inches or more in diameter except red and white pine, cedar, hemlock, oak, elm and cedar. Cut all spruce and balsam that is 6 inches or more in diameter at a 4 inch stump Specs: Next Step Treatments: Acceptable aspen Regen: Other Old next step comments: Comment: Proposed Start Date: 10/1 /2016 39 12086039-Cut 31.2 4130 - Aspen Poletimber 60 51-80 Harvest Clearcut with 4319 - Mixed Even-Aged Approved **Upland Forest** Proposal Medium Retention Habitat Cut: No Site Condition: Prescription Cut all merchantable trees except red and white pine, cedar, hemlock, cherry, oak or elm. Beware of vernal ponds and nest trees which may be present. There is an acre of pure hardwood in the NE corner of the stand at the end of the road that goes in that direction. This should be left Specs: and could be thinned because it will NOT regenerate to aspen. Next Step Treatments: Acceptable aspen and small aged hardwood that is the unmerchantable that is left. There is a vernal pond in the north corner where the road Y's. No trees Regen: should be cut here. Other There is a vernal pond in the north corner where the road Y's. No trees should be cut here. Old next step comments: Comment: 10/1 /2016 Proposed Start Date: 26.3 4191 - Mixed 75 51-80 4199 - Other 43 12086043-Cut Sawtimber Harvest Clearcut with Even-Aged Approved Upland Deciduous Well Retention Mixed Upland Proposal with Conifer Deciduous Habitat Cut: No Site Condition: Prescription Cut all trees two inches or more in diameter except red and white pine, cedar, hemlock, oak, cherry and elm. Cut al spruce and balsam that is 6 inches or greater at a 4 inch stump. Leave Retention. There are wet areas and rocks that should be taken out of the sale and the volume and Specs: acres will be decreased accordingly. Next Step Treatments: Acceptable aspen, spruce and balsam and a few birch sprouts which may be browsed by deer Regen: Other Old next step comments: Comment: Proposed Start Date: 10/1 /2016 44 12086044-Cut 10.6 4199 - Other Mixed Poletimber 78 81-110 Harvest Clearcut with 4199 - Other Even-Aged Approved Upland Deciduous Well Retention Mixed Upland Proposal Deciduous Habitat Cut: No Site Condition: Prescription Cut all trees that are two inches or more in diameter except oak, elm, cherry, red and white pine, cedar and hemlock. Cut all spruce, balsam that is 6 inches or greater at a 4 inch stump. Specs: Next Step Treatments: Acceptable Aspen and red maple sprouts Regen: Other Old next step comments: Comment: 10/1 /2016 Proposed Start Date: **Total Treatment** 77.9 Acreage Proposed:

**Report 5 – Site Conditions** 

Crystal Falls Mgt. Unit Linda Lindberg : Examiner Compartment: 86 Year of Entry: 2017

Dom	inant	Site	Conc	litions
~	-	~~	~~	~ '

	2F	2G	3G	3J	3L
Aspen	18				
Cedar					
Hemlock					
Lowland Aspen/Balsam Poplar					
Lowland Conifers		2	19	21	
Lowland Deciduous					
Lowland Mixed Forest			8		
Lowland Shrub					
Mixed Upland Deciduous					
Northern Hardwood					
Upland Conifers					5
Water					
Total Forested Acres	18	2	28	21	5
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	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> What was cut has b	een but is not worth going to	because o	of steep terrain.			
2	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> This stand is mostly	cedar and hemlock					
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
		Q left in this compartment as was cut in the south part.	it has all l	peen cut through so this c	an be left for retention and	there is some cedar in he	re also. This is a

Linda Lind	dberg : Examiner			Compartment: 86 Year of Entry: 20		
Unavailable	3G: Other Influence zones - See comments	20	Unspecified	Unspecified	Unspecified	Unspecified
omments: lost of the swamps	s were cut through in this comp	partment a	nd this one was left unc	ut and has a lot of cedar.		
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
		s a lot of c	edar and since so much	n of the drainages and wetle	and has been cut including	some of this stand
Unavailable	3G: Other Influence zones - See comments	8	Unspecified	Unspecified	Unspecified	Unspecified
	Unavailable omments: ost of the swamps Unavailable omments: ome of this drainage ecause it was joine	Unavailable 3G: Other Influence zones - See comments   omments: ost of the swamps were cut through in this composed of the swamps were cut through in this composed of the swamps were cut through in this composed of the swamps were cut through in this composed of the swamps were cut through in this composed of this drainage was cut already and this has because it was joined to stand 34 until it got cut.   Unavailable 3G: Other Influence zones - See comments	Unavailable 3G: Other Influence 20 zones - See comments 20   omments: ost of the swamps were cut through in this compartment at 0 unavailable 2G: Too wet (sensitive 2 soils, does not include access issues)   Omments: 0   omments: 0   unavailable 2G: Too wet (sensitive 2 soils, does not include access issues)   omments: 0   omments: 0   omments: 0   unavailable 3G: Other Influence 8 zones - See comments	Unavailable 3G: Other Influence zones - See comments 20 Unspecified   omments: ost of the swamps were cut through in this compartment and this one was left unc   Unavailable 2G: Too wet (sensitive soils, does not include access issues) 2 Unspecified   omments: 0 Unspecified 2 Unspecified   unavailable 2G: Too wet (sensitive soils, does not include access issues) 2 Unspecified   omments: omments: 0 Unspecified 0   omments: omments: 0 0 0   Unavailable 3G: Other Influence zones - See comments 8 Unspecified	Unavailable 3G: Other Influence zones - See comments 20 Unspecified Unspecified   omments: ost of the swamps were cut through in this compartment and this one was left uncut and has a lot of cedar. Unavailable 2G: Too wet (sensitive soils, does not include access issues) 2 Unspecified Unspecified   omments: 0 Unspecified Unspecified Unspecified Unspecified   omments: 0 0 0 0 0 0 0   omments: 0	Unavailable zones - See comments 20 Unspecified Unspecified Unspecified   omments: ost of the swamps were cut through in this compartment and this one was left uncut and has a lot of cedar. Unspecified Unspecified Unspecified   Unavailable zG: Too wet (sensitive soils, does not include access issues) 2 Unspecified Unspecified Unspecified   omments: 0 20 Unspecified Unspecified Unspecified Unspecified   omments: 0 26: Too wet already and this has a lot of cedar and since so much of the drainages and wetland has been cut including because it was joined to stand 34 until it got cut. 0 Unspecified Unspecified Unspecified   Unavailable zones - See comments 3G: Other Influence zones - See comments 8 Unspecified Unspecified Unspecified



#### Report 6 – 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 – 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.

Area SCA = Special Conservation Area	Conservation Area	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
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S t	Crystal Falls Mgt. Unit			Report 8	- Forested	Stands Compartment: 86 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	Poletimber Well	165.4	40	1-50	OPIC - FMD: OI Stand Year Origin was 1975Some drainages were cut through in this stand. Cedar and black ash were left.
4	4130 - Aspen	Poletimber Medium	17.6	85	1-50	OPIC - FMD: This stand has had aspen cut; it is an old mountain top; high with shallow soil and small water patches. Fir grows thick on rock tops. As stated before, this is a rocky area that isn't cut nor should it be. It is very steep.
7	6120 - Lowland Cedar	Poletimber Well	11.2	95	81-110	OPIC - FMD: EAST SIDE IS BIG ASPEN; 2 N/S DRAINAGES W/GIANT CEDAR MAKE IT A GOOD WILDLIFE STAND. TAKING ASPEN AND FIR WILL CAUSE THE REST TO BLOW DOWN.
						Good for wildlife with all the wet areas and a lot of wet was cut in this compartment already
8	4119 - Mixed Northern Hardwoods	Poletimber Well	5.3	85	51-80	OPIC - FMD: MINNOW TAR HARDWOODS SALE COMPLETED 10-2-11
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	21.2	89	51-80	This is a drainage and since a lot have been cut through and this was cut in the south portion, it should be left
10	6120 - Lowland Cedar	Poletimber Well	16.1	98	51-80	OPIC - FMD: OI Stand Year Origin was 1920 This is a drainage all through here and it is mostly cedar
11	4134 - Aspen, Spruce/Fir	Sapling Well	3.3	15	Immature	OPIC - FMD: OI Stand Year Origin was 2000
12	4119 - Mixed Northern Hardwoods	Poletimber Well	44.6	85	81-110	
13	4139 - Aspen, Mixed Deciduous	Poletimber Medium	34.2	40	81-110	OPIC - FMD: OI Stand Year Origin was 1975
14	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.6	85	81-110	OPIC - FMD: Steep, rugged north slope, nice buffer to stream. As mentioned above. What could be cut was cut and this stand is a good buffer and very steep.
15	4134 - Aspen, Spruce/Fir	Poletimber Well	35.5	40	51-80	OPIC - FMD: This stand is moving out of the A3
16	4130 - Aspen	Poletimber Well	4.1	85	51-80	OPIC - FMD: SOME AREAS ROCKOUTCROPS DIFFICULT LOGGING; LEFT OVER FROM SURROUNDING CUT. 2015 This could be called retention for stand 15
17	4130 - Aspen	Poletimber Well	2.1	85	51-80	OPIC - FMD: SOME AREAS ROCKOUTCROPS DIFFICULT LOGGING; LEFT OVER FROM SURROUNDING CUT 2015 If this could have been cut it would have and it is both buffer and retention
18	4110 - Sugar Maple Association	Poletimber Well	14.9	85	81-110	OPIC - FMD: OI Stand Year Origin was 555

# **Report 8 – Forested Stands**



S t	Crystal Falls Mgt. Unit			Report 8	- Forested	Stands Compartment: 86 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	12.5	40	1-50	OPIC - FMD: This stand is moving out of the A3
20	4119 - Mixed Northern Hardwoods	Poletimber Well	9.3	85	81-110	OPIC - FMD: OI Stand Year Origin was 555
21	6120 - Lowland Cedar	Poletimber Well	7.5	86	51-80	OPIC - FMD: SWAMP IS TOO WET TO CUT IN The vast majority of this is cedar
22	4134 - Aspen, Spruce/Fir	Poletimber Well	6.2	40	51-80	OPIC - FMD: This stand is moving out of the A3
26	4134 - Aspen, Spruce/Fir	Sapling Well	11.3	15	Immature	OPIC - FMD: OI Stand Year Origin was 2000
27	4130 - Aspen	Poletimber Medium	6.8	40	1-50	OPIC - FMD: THIS STAND IS IN A DRAINAGE BUT IT IS VERY GOOD ASPEN
28	4119 - Mixed Northern Hardwoods	Poletimber Well	36.6	85	51-80	OPIC - FMD: OI Stand Year Origin was 555 This does not need to be cut yet.
30	4130 - Aspen	Poletimber Well	19.3	40	81-110	OPIC - FMD: OI Stand Year Origin was 1975needs to grow. Some blown down
31	4119 - Mixed Northern Hardwoods	Poletimber Well	4.1	85	81-110	OPIC - FMD: OI Stand Year Origin was 555 Average 80 BA
32	4134 - Aspen, Spruce/Fir	Poletimber Well	37.0	25	Immature	OPIC - FMD: OI Stand Year Origin was 1990
33	429 - Mixed Upland Conifers	Poletimber Medium	24.3	85	1-50	OPIC - FMD: ROCK BLUFFS, LEFT FROM LAST CUT B/C OF INACCESSIBILITY If this could have been cut it would have been cut already but can be retention
36	6115 - Lowland Ash	Poletimber Well	16.8	55	81-110	OPIC - FMD: OI Stand Year Origin was 1960There should be a culvert on the road here.
37	4130 - Aspen	Sapling Well	45.8	14	Immature	OPIC - FMD: cut in 2001 as Tadpole Gumbo sale #008-01-01.
39	4130 - Aspen	Poletimber Medium	31.2	60	51-80	OPIC - FMD: OI Stand Year Origin was 1975
40	4119 - Mixed Northern Hardwoods	Poletimber Well	15.1	85	51-80	OPIC - FMD: BAND (E/W) OF ALMOST PURE BIRCH ON NORTH END Most of the birch has been cut in this stand. A few remain
41	4134 - Aspen, Spruce/Fir	Poletimber Medium	61.3	35	51-80	YOE 1980

S t	Crystal Falls	s Mgt. Unit		Report 8	– Forested	Stands Compartment: 86 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	31.3	75	51-80	OPIC - FMD: OI Stand Year Origin was 1925
44	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.5	78	81-110	
45	4119 - Mixed Northern Hardwoods	Poletimber Well	9.8	85	81-110	OPIC - FMD: TAKE BIRCH AND ASPEN, PROTECT M3 There is some wet in this also but it was cut last time and is good.
46	4110 - Sugar Maple Association	Poletimber Well	9.4	85	51-80	OPIC - FMD: A3 ON SW OF STAND 3" DBH AVG; RECENT THIN This has a few areas that are high but for the most part is 70-90 BA
47	4130 - Aspen	Sapling Well	9.3	15	Immature	OPIC - FMD: OI Stand Year Origin was 2000
48	4134 - Aspen, Spruce/Fir	Poletimber Medium	7.6	40	1-50	OPIC - FMD: This stand is moving out of the A3
51	6111 - Lowland Balsam Poplar	Poletimber Medium	6.4	40	51-80	OPIC - FMD: OI Stand Year Origin was 1975
53	6120 - Lowland Cedar	Poletimber Well	29.8	86	1-50	This is a drainage that has been cut through in areas!!
55	4130 - Aspen	Sapling Well	9.0	14	Immature	OPIC - FMD: sale cut in 2001 as Tadpole Gumbo sale #008-01- 01
56	4134 - Aspen, Spruce/Fir	Sapling Well	2.3	14	Immature	OPIC - FMD: sale cut in 2001 as Tadpole Gumbo sale #008-01- 01
57	4134 - Aspen, Spruce/Fir	Sapling Well	6.3	14	Immature	OPIC - FMD: sale cut in 2001 as Tadpole Gumbo sale #008-01- 01
58	4136 - Aspen, Mixed Conifer	Poletimber Well	26.7	35	81-110	OPIC - FMD: OI Stand Year Origin was 1960
59	4119 - Mixed Northern Hardwoods	Poletimber Well	39.5	85	51-80	OPIC - FMD: E&W DRAINAGES (Ash, cedar, hemlock)APROX 5 CH APART. Sale operations are to avoid drainages. MINNOW TAR HARDWOODS SALE COMPLETED 10-2-11 60-70 BA 2015
60	4136 - Aspen, Mixed Conifer	Poletimber Medium	11.7	40	1-50	OPIC - FMD: OI Stand Year Origin was 1975
61	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.2	85	51-80	OPIC - FMD: E&W DRAINAGES APROX 5 CH APART. sale operations are to avoid drainages. MINNOW TAR HARDWOODS SALE COMPLETED 10-2-11
69	4119 - Mixed Northern Hardwoods	Poletimber Medium	60.0	85	1-50	OPIC - FMD: Reserve the hardwood. Stand cut in summer of 2008. This has spruce, balsam and hardwood amongst the clearcut

S t a n d	Crystal Falls Mgt. Unit			Report 8	- Forested	Stands Compartment: 86 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	4136 - Aspen, Mixed Conifer	Sapling Poor	7.8	7	Immature	OPIC - FMD: Reserve the hardwood. Stand cut in the summer 2008. Lots of wet and rocks

Compartment: 86 Year of Entry: 2017



Stand	Cover Type	Acres	Managed Site	General Comments:
50	6299 - Lowland Shrub (OI)	2.1	No	Part of Breen Creek
63	510- Water (OI)	24.9	No	Carney Lake Outlet