



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 61

Entry Year 2016

Acreage: 2,681

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 07/25/2014

Stand Examiner: Deb Goupell

Legal Description:

T42N R28W Sec 15-17, 20-26, 36

Identified Planning Goals:

This compartment is almost half upland and half lowland, the majority of the lowland being cedar. Aspen and northern hardwoods make up an equal amount of the upland cover type with a minor mix of upland combinations comprising the rest. Management of all stands is to balance age class distribution and allow best suited species to grow on best suited sites while promoting sustainable timber production, and enhancing and protecting wildlife habitat. Hardwood management goals are to put growth on the best trees in place by removing crown competition and selectively harvest on an alternating 20 year rotation.

Soil and topography:

The majority of the lowland is dominated by Carbondale and Cathro mucks with the river floodplains being a Waucedah-Cathro complex. Fine sandy loams and loamy sands, which are well drained soils found on level to rolling hills, dominate the uplands.

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

The compartment has much private land mixed in with State land. State land adjoins the compartment on the north side, with private on all the other sides. The area is heavily used by loggers, hunters, fisherpeople, campers, trappers, general recreationists.

Unique Natural Features:

East Branch of the Sturgeon River, Skunk Creek

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This has been identified as obligate deer winter range.

Watershed and Fisheries Considerations:

Protect water quality for all bodies of water, particularly the Skunk Creek and East Branch of the Sturgeon River. Promote long lived conifer species along these waterbodies and use adequate buffer protection.

Wildlife Habitat Considerations:

The Sturgeon River Deer Wintering Complex makes up a good portion of this compartment. Conifer components of the treated stand should be retained and enhanced/regenerated to provide quality thermal cover and snow intercept values. Age class diversity in aspen stands is essential for species such as goshawk and red-shouldered hawks which inhabit this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium and coarse-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Cambrian Munising Group and Precambrian Archean granite/gneiss, Volcanics and sedimentary rocks subcrop below the glacial drift. The Granite/Gneiss could be used for decorative or building stone. A Randville Dolomite marble quarry is located two miles to the south. Groveland Iron mine is located approximately seven miles to the southwest. Part of this compartment was previously leased (Sections 15 – 17) for metallic exploration. Gravel pits are located in the area and there is potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Skunk Creek Road access the majority of this compartment in addition to a number of poor, two-track roads. Access south of the East Branch of the Sturgeon is primarily through private.

Survey Needs:

Sections 22, 35, 36

Recreational Facilities and Opportunities:

Hunting, dispersed camping, fishing, trapping, hiking, canoeing

Fire Protection:

Felch protection area. Access to most upland stands is good, access to some swamp types would be difficult.

Additional Compartment Information:**The following reports from the Inventory are attached:**

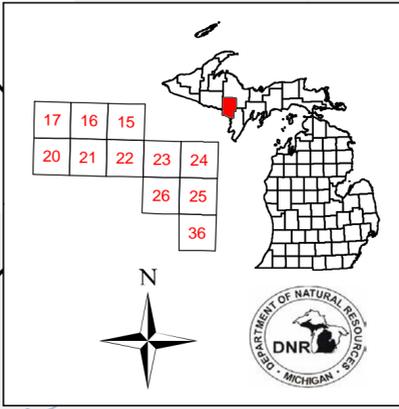
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**

Cover Type & Treatment Map

Compartment: 061
 T42N R28W Sections 15, 16, 17, 20-26, 36
 County: Dickinson
 Unit: Crystal Falls
 Management Area: Ralph Ground Moraine
 YOE: 2016
 Acres: 2,681 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 08/25/2014
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- PLSS Corner
- Unclassified Corners
- Gate
- Berms
- Mining
- Culverts
- ORV Routes
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Powerline
- ORV Route
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Regeneration Survey

Forest Stands

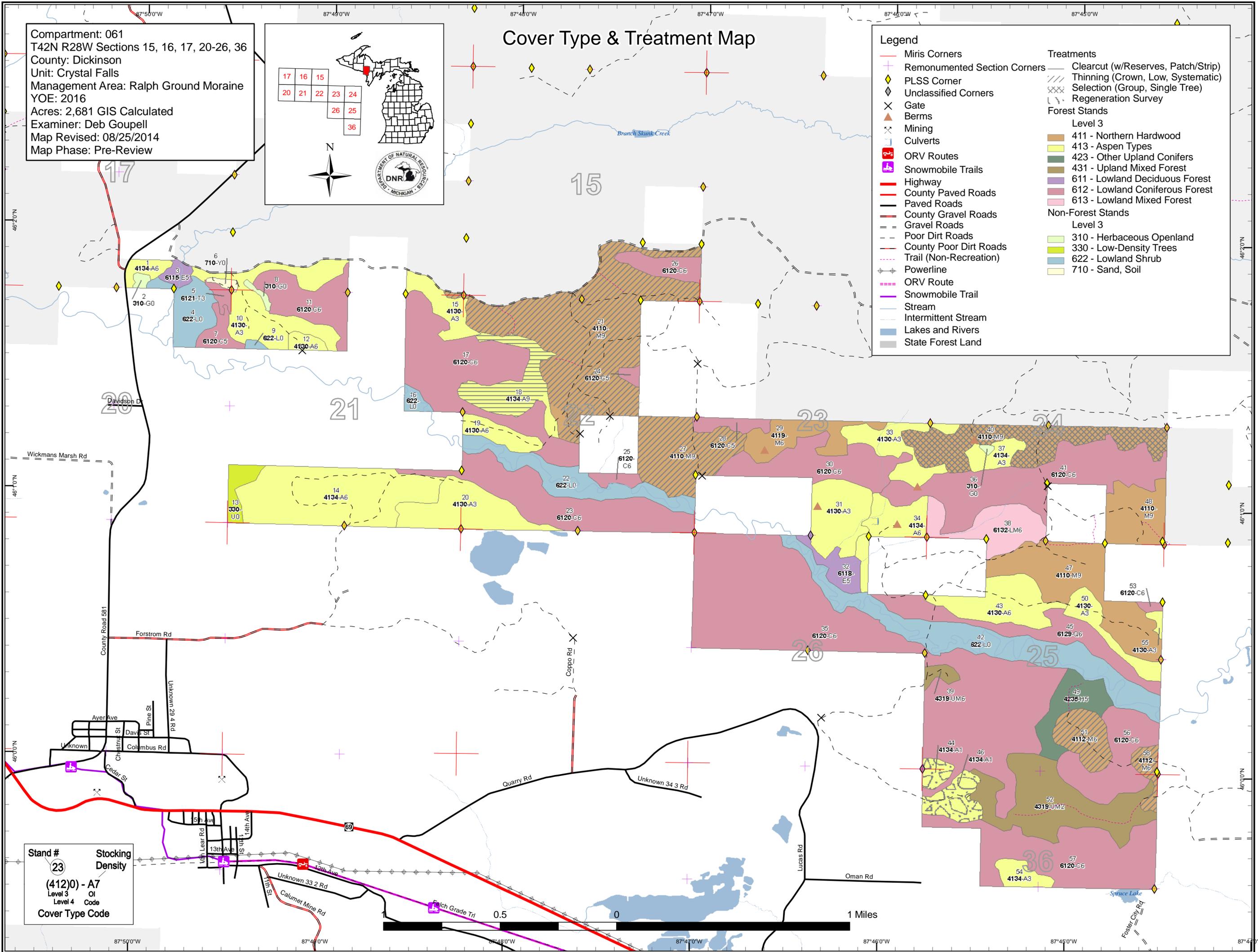
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

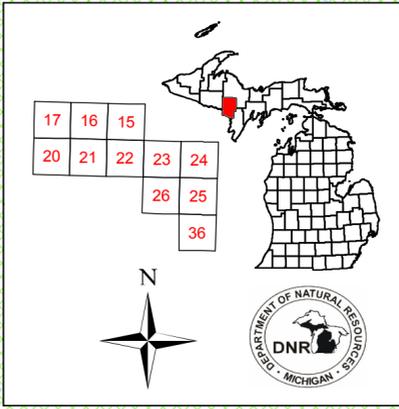
Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 710 - Sand, Soil



Stand #	Stocking Density
(412)0 - A7	Level 3 OI
	Level 4 Code
	Cover Type Code

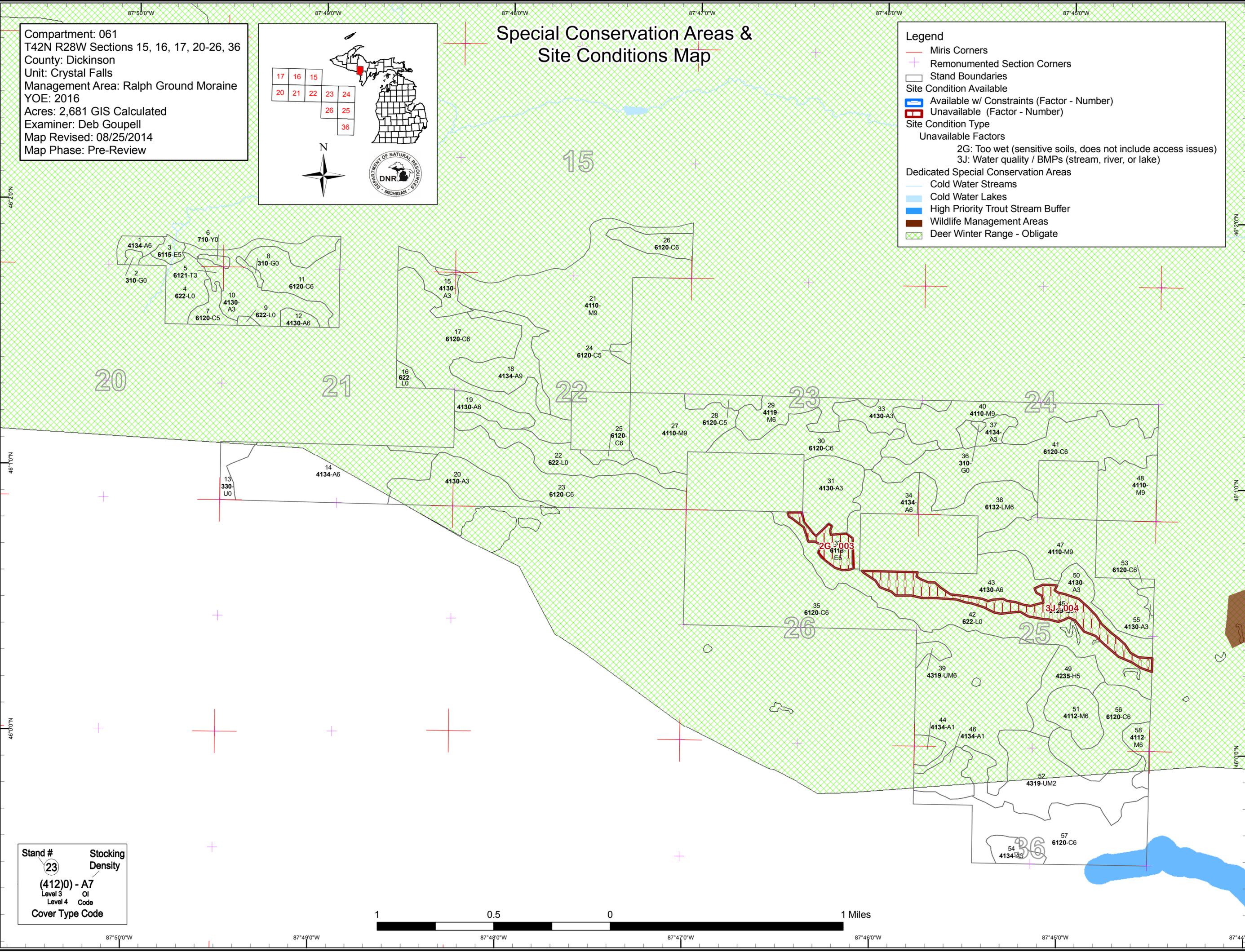
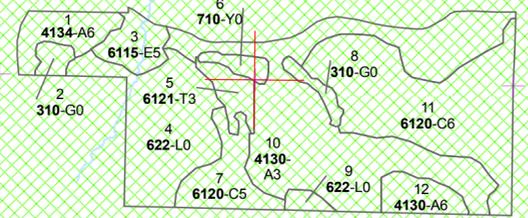
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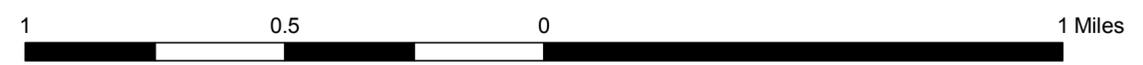
Special Conservation Areas & Site Conditions Map

Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type
 - Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 3J: Water quality / BMPs (stream, river, or lake)
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Wildlife Management Areas
 - Deer Winter Range - Obligate



Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



87°50'0"W 87°49'0"W 87°48'0"W 87°47'0"W 87°46'0"W 87°45'0"W

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen	70	47	262	151	7	0	44	0	0	0	0	0	0	0	581
Cedar	0	0	0	0	0	0	0	0	31	902	107	0	0	0	1040
Hemlock	0	0	0	0	0	0	0	0	0	32	0	0	0	0	32
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	0	0	0	0	0	55	0	0	0	0	55
Lowland Deciduous	0	0	0	0	0	0	7	0	17	0	0	0	0	0	24
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	43	0	0	0	0	43
Lowland Shrub	199	0	0	0	0	0	0	0	0	0	0	0	0	0	199
Northern Hardwood	0	0	0	0	0	0	0	0	576	0	0	0	0	0	576
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Tamarack	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	98	6	0	0	0	0	0	0	0	0	0	0	105
Total	290	52	361	157	7	0	52	0	624	1032	107	0	0	0	2681



Report 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2016

Compartment 061
Total Compartment Acres: 2,681

Acres by Treatment Type

Commercial Harvest - 448 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	40	0	0	0	0	0	40
Northern Hardwood	0	79	0	0	328	0	408
Total	40	79	0	0	328	0	448



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	12061018-Cut	39.9	4134 - Aspen, Spruce/Fir	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all trees 2" and above except pine and cedar. There is a decent hardwood island that will be thinned in the center of the southwest lobe.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
21	12061021-Cut	215.4	4110 - Sugar Maple Association	High Density Log	87	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80. Nest buffered in far south 5 chains will be a no cut. Additional 5 chain buffer will be no harvest/activity from March 1 to August 15										
<u>Specs:</u> while maintaining 70% crown closure per hawk guidelines. South of road split will be its own unit.										
<u>Other</u> Will be a light thinning										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
27	12061027-Cut	71.0	4110 - Sugar Maple Association	High Density Log	87	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80, releasing sugar maple and ash saplings where present. Do not mark cedar or hemlock.										
<u>Specs:</u>										
<u>Other</u> Will be a light thin										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
40	12061040-Cut	79.4	4110 - Sugar Maple Association	High Density Log	87	81-110	Harvest	Group Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood to 40-50 BA or group removal (ie large canopy gaps). Quality of stand is poor. Some hazel is present.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
51	12061051-Cut	30.0	4112 - Maple, Beech, Cherry Association	High Density Pole	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 Ba, retain all hemlock, cedar and pine. South piece has more red maple, white birch which should be thinned hard.										
<u>Specs:</u>										
<u>Other</u> Access will be through private.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	12061058-Cut	11.9	4112 - Maple, Beech, Cherry Association	High Density Pole	81	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Thin to BA 80.

Specs:

Other Access will be through private.

Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

44	12061044- Survey	8.8	4134 - Aspen, Spruce/Fir	Low Density Sapling	6		Regeneration Survey	Artificial Regeneration (3yr)	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Herbicide, trench and plant to red pine.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 07/18/2014

46	12061046- Survey	23.0	4134 - Aspen, Spruce/Fir	Low Density Sapling	6		Regeneration Survey	Artificial Regeneration (3yr)	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Herbicide, trench, plant to red pine.

Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 07/18/2014

**Total Treatment
Acreage Proposed: 479.4**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment 061

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	Dominant Site Conditions		
				No	3J	2G
581	580	0	Aspen	580		0
1040	1040		Cedar	1,040		
32	32		Hemlock	32		
55		55	Lowland Conifers		55	
24	8	16	Lowland Deciduous	8		16
43	43		Lowland Mixed Forest	43		
576	576		Northern Hardwood	576		
5	5		Tamarack	5		
105	105		Upland Mixed Forest	105		
2,461	2,389	71	Total Forested Acres	2,389	55	17
	97%	3%	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
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	17	3J: Water quality / BMPs (stream, river, or lake)			
Comments:							
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	55	1C: Other dept or div proc/practices			
Comments: 40% of stand is cedar							



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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 061 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4134 - Aspen, Spruce/Fir	High Density Pole	9.1	27		trees along CR 581 are a bit bigger in diameter	
3	6115 - Lowland Ash	Medium Density Pole	7.2	60		very wet	
5	6121 - Tamarack	High Density Sapling	5.0	16		Sand Pit tsale cut 1998	
7	6120 - Lowland Cedar	Medium Density Pole	11.9	83			
10	4130 - Aspen	High Density Sapling	63.2	28		most of jack pine directly adjacent to sand pit; far northeast shows some aspen dieback. Sand Pit TS 1986. Trace red pine and white birch	
11	6120 - Lowland Cedar	High Density Pole	45.3	100		north 1/3 stand is 64 year old black spruce with dbhs ranging from 4-8". Sphagnum hummocks.	
12	4130 - Aspen	High Density Pole	6.7	42			
14	4134 - Aspen, Spruce/Fir	High Density Pole	118.6	30		couple of residual, older aspen pockets on rock knobs.	
15	4130 - Aspen	High Density Sapling	22.1	24		west end is less stocked and wetter	
17	6120 - Lowland Cedar	High Density Pole	120.3	92		Good tight crown closure throughout most of the stand	
18	4134 - Aspen, Spruce/Fir	High Density Log	44.4	68			
19	4130 - Aspen	High Density Pole	17.8	28		Camp on the Rocks cut 1986	
20	4130 - Aspen	High Density Sapling	54.9	25		Coyote Corner TS cut 1988	
21	4110 - Sugar Maple Association	High Density Log	218.0	87	111-140	Skunk Creek Hwd South thinned 1999. White ash saps heavy in east half.	
23	6120 - Lowland Cedar	High Density Pole	96.7	97			
24	6120 - Lowland Cedar	Medium Density Pole	3.8	91		much of the balsam and spruce and balsam of gilead have blown down	
25	6120 - Lowland Cedar	High Density Pole	6.7	97		Stand is completely within 300 foot buffer	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6120 - Lowland Cedar	High Density Pole	19.6	87		drainage flows west out of here. Much of the other species are falling out, especially the balsam and spruce.
27	4110 - Sugar Maple Association	High Density Log	71.0	87	111-140	thinned Skunk Creek Hwd South 1999. BAs all over the place. Trees verified on site with canopy cover in 1939 photos
28	6120 - Lowland Cedar	Medium Density Pole	11.3	92		ash heavier on west side
29	4119 - Mixed Northern Hardwoods	High Density Pole	34.9	87	81-110	Git R Done TS cut 2008
30	6120 - Lowland Cedar	High Density Pole	61.8	100		East half of this stand had a habitat cut in 2001 where aspen, birch, bam, spruce/fir and maple were removed. There is heavy sugar maple, red maple, balm regeneration in this area, particularly on the stand edges; many shorter maple stems are browsed to bushes. West end has some blowdown along drainages.
31	4130 - Aspen	High Density Sapling	46.5	13		Sturgeon River aspen TS 2000; aspen dbh ranges from 1-4 inches, trace of cedar
32	6118 - Lowland Deciduous with Cedar	Medium Density Pole	16.9	85		ash dbh ranges from 3-12"; very wet, at least 2 separate drainages with bed and bank in here.
33	4130 - Aspen	High Density Sapling	34.0	23		Dead Deer TS cut 1990; most of white spruce/balsam is along road
34	4134 - Aspen, Spruce/Fir	High Density Pole	32.1	30		
35	6120 - Lowland Cedar	High Density Pole	365.5	97		
37	4134 - Aspen, Spruce/Fir	High Density Sapling	14.3	23		stand has some open areas but they are filling in with small conifers
38	6132 - Mixed Lowland Forest with Cedar	High Density Pole	43.2	98		Far west finger has a couple acres of upland, mature aspen. Ash dbh ranges from 3-10". Also a couple upland acres on far east along road near private land.
39	4319 - Mixed Upland Forest	High Density Pole	6.3	30		Bills Post TS cut 1984
40	4110 - Sugar Maple Association	High Density Log	79.4	87	81-110	A lot of poor quality, defective trees, some very large/overmature. Good stand to try something different, but be careful of hazel. Shelterwood to 40-50? Large canopy gaps? There is an overmature pocket of aspen/balm/WS/BF just east of the berm on the N/S road in the further west. This may need to be retained as it is near a bed/bank, which disappears as you go east.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6120 - Lowland Cedar	High Density Pole	125.4	97		Tall trees, good diversity, thick canopy. Pocket of mixed hardwood, conifer on a knob on north central. Most of aspen and balm of gilead on outer edges of stand. Several drainages.
43	4130 - Aspen	High Density Pole	46.9	28		
44	4134 - Aspen, Spruce/Fir	Low Density Sapling	8.8	6		Git R Done TS cut 2008. Most birch seed trees are dead. Insufficient regeneration. Few pockets of aspen, scattered white spruce/balsam. Heavy grass & raspberry
45	6129 - Mixed Coniferous Lowland Forest	High Density Pole	54.8	97		
46	4134 - Aspen, Spruce/Fir	Low Density Sapling	23.0	6		Git R Done TS cut 2008; most seed trees are dead. Insufficient regeneration. A few pockets of aspen, scattered white spruce and balsam. Heavy grass, raspberry
47	4110 - Sugar Maple Association	High Density Log	89.6	87	81-110	Git R Done TS cut 2008; trace of hemlock and white pine
48	4110 - Sugar Maple Association	High Density Log	41.3	87	81-110	Git R Done cut 2008. White ash saplings in understory are browsed heavily
49	42350 - Upland Hemlock	Medium Density Pole	32.2	90	81-110	aspen and birch cut out of north 2/3 of stand.
50	4130 - Aspen	High Density Sapling	22.3	6		Git R Done TS cut 2008
51	4112 - Maple, Beech, Cherry Association	High Density Pole	30.0	81	111-140	Far south piece has scattered hemlock-- part of Pete's Clearing TS that was not cut-- also has more red maple, white birch. Cut this piece with hardwood. Larger trees have cavities, defect. Very little basswood. Grass present and lycopodium is heavy especially on stand edges.
52	4319 - Mixed Upland Forest	Medium Density	98.2	25		Spruce Lake TS cut 1989. Very rocky site with shallow soil and heavy grass, some upland hemlock and cedar.
53	6120 - Lowland Cedar	High Density Pole	2.6	97		
54	4134 - Aspen, Spruce/Fir	High Density Sapling	13.2	5		Git R Done TS cut 2009
55	4130 - Aspen	High Density Sapling	2.9	6		Git R Done TS 2008
56	6120 - Lowland Cedar	High Density Pole	57.7	91		
57	6120 - Lowland Cedar	High Density Pole	111.9	91		

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 061
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4112 - Maple, Beech, Cherry Association	High Density Pole	11.9	81	111-140	Access will only be through private. Princess pine on ground



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	2.6	Unspecified	Unspecified	
4	622 - Lowland Shrub	29.9	Unspecified	Unspecified	
6	710 - Sand, Soil	2.8	Unspecified	Unspecified	
8	310 - Herbaceous Openland	2.5	Unspecified	Unspecified	
9	622 - Lowland Shrub	1.9	Unspecified	Unspecified	
13	330 - Low-Density Trees	12.3	Unspecified	Unspecified	
16	622 - Lowland Shrub	5.8	Unspecified	Unspecified	
22	622 - Lowland Shrub	51.1	Unspecified	Unspecified	
36	310 - Herbaceous Openland	1.2	Unspecified	Unspecified	
42	622 - Lowland Shrub	109.9	Unspecified	Unspecified	