



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 2

Entry Year 2016

Acreage: 1,726

County Dickinson

Management Area: Ralph Ground Moraine

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**Revision Date:** 07/22/2014

**Stand Examiner:** Linda Lindberg

**Legal Description:**

T44N, R30W, Sec 20, 29-32

**Identified Planning Goals:**

Manage the forest integrating hardwood and proceeding to have aspen spread into all age classes.

**Soil and topography:**

This is a fairly flat compartment in a deeryard and has some wetter acreage to the south.

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

This compartment is fairly contiguous with 120 acres in section 29. There is a fair condition road that accesses the private land and north to private outside the compartment boundary. The Race road is good gravel (county) and goes through the compartment and accesses the Michigamme Reservoir. Weber Lake is to the north of the compartment but is surrounded by WE land.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

Deeryard considerations

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

This compartment comprises a good portion of the historic Three Lake Deer Wintering Complex. Mesic and lowland conifers should be maintained and promoted where possible. Transition zones between upland and lowland sites, including those along watercourses are important for wintering deer. Eagles ospreys historically nested in this compartment. The retention of super canopy trees is conducive for perching and nesting for raptors.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse-textured till and end moraines of coarse-textured till. The glacial drift thickness varies between 10 and 50 feet. Precambrian Michigamme subgroups below the glacial drift. There is not a current economic use for these rocks. Iron mines are located approximately eight miles to the southwest. A gravel pit is located two miles to the east and there should be potential on the uplands. Most of this area was previously leased for metallic exploration. Kimberlites were discovered in the area. There is no economic oil and gas production in the UP.

**Vehicle Access:**

The main vehicle access in this compartment is the county Race road, and the main dirt road going to the north. There are other logging roads.

**Survey Needs:**

Because of the contiguous ownership there are few survey needs

**Recreational Facilities and Opportunities:**

The Michigamme Reservoir is the main recreation in this area and deer hunting.

**Fire Protection:**

**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:**

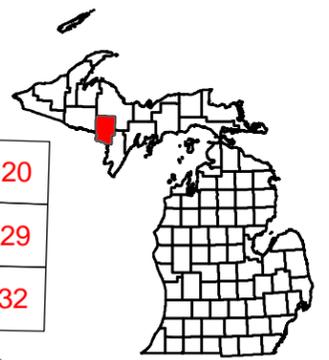
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



# Stand Boundary Map

Compartment: 002  
 T44N R30W Sections 20, 29-32  
 County: Dickinson  
 Unit: Crystal Falls  
 Management Area: Ralph Ground Moraine  
 YOE: 2016  
 Acres: 1,726 GIS Calculated  
 Examiner: Linda Lindberg  
 Map Revised: 08/20/2014  
 Map Phase: Pre-Review

	20
30	29
31	32



## Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ DNR Survey Grade Corner
- ◆ PLSS Corner
- ◆ Unclassified Corners
- X Gate
- ▲ Berms
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- - - Trail (Non-Recreation)
- Railroads
- Stream
- - - Intermittent Stream
- Stand Boundaries

## Forest Stands

### Level 3

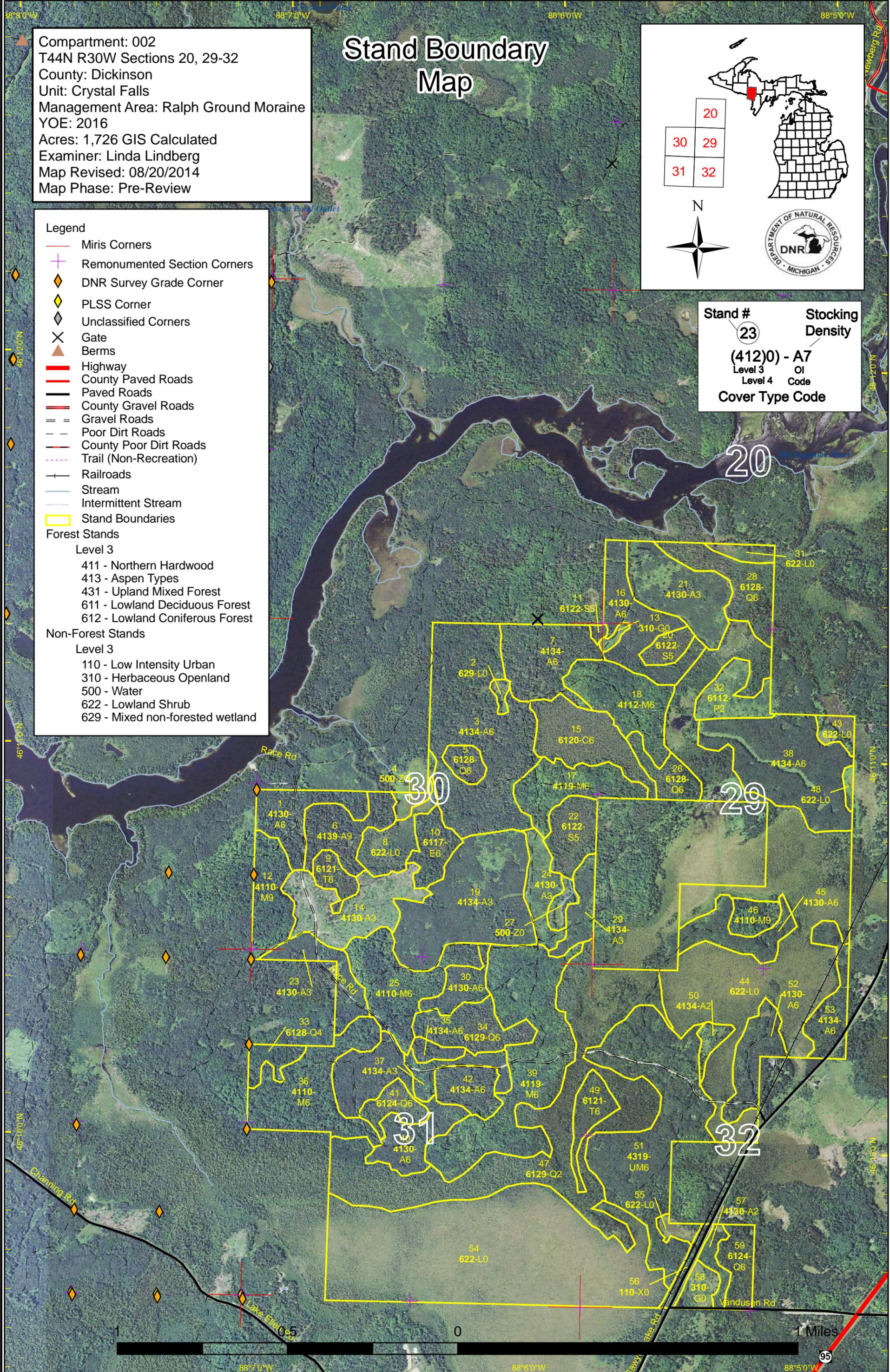
- 411 - Northern Hardwood
- 413 - Aspen Types
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

## Non-Forest Stands

### Level 3

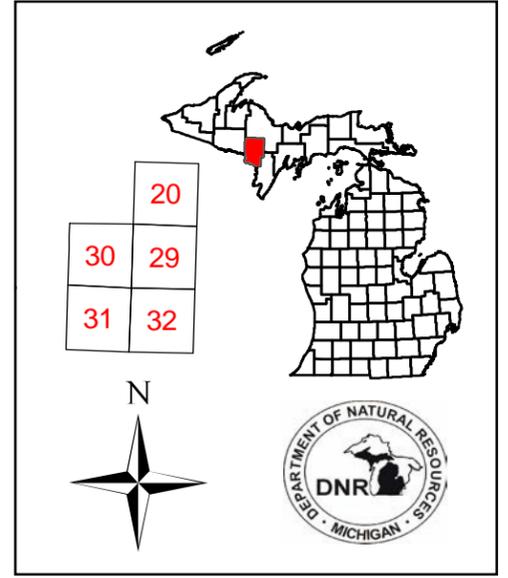
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

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



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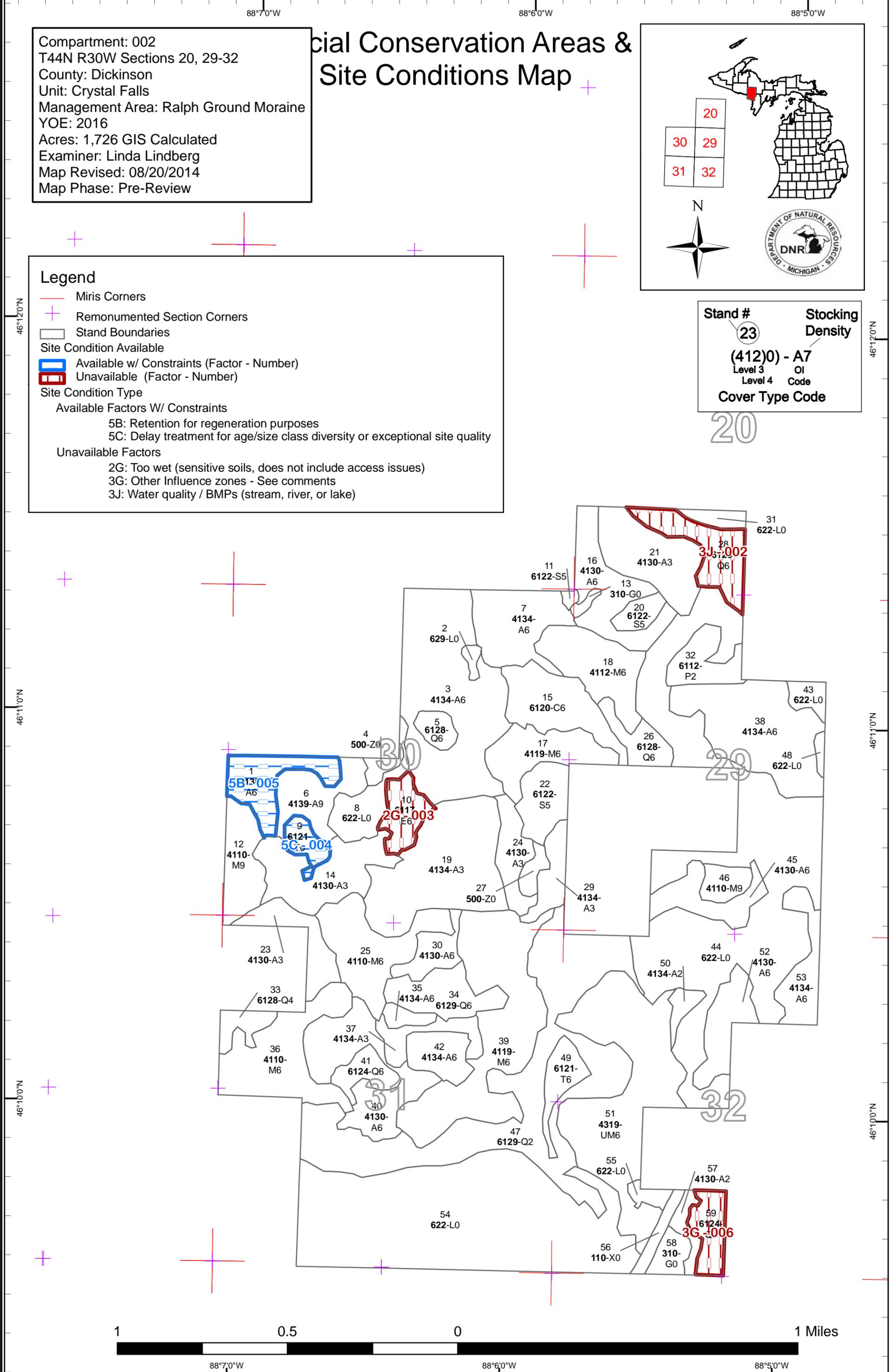
# Special Conservation Areas & Site Conditions Map



### Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
  - 5B: Retention for regeneration purposes
  - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
  - 2G: Too wet (sensitive soils, does not include access issues)
  - 3G: Other Influence zones - See comments
  - 3J: Water quality / BMPs (stream, river, or lake)

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



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	59	146	140	19	164	0	53	23	0	0	0	0	0	0	605
Cedar	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	10	206	14	0	0	0	0	0	231
Lowland Deciduous	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Lowland Shrub	409	0	0	0	0	0	0	0	0	0	0	0	0	0	409
Lowland Spruce/Fir	0	0	0	0	0	0	7	19	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	0	0	0	38	210	0	0	0	0	9	257
Tamarack	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	92	0	0	0	0	0	0	0	0	0	0	0	92
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>509</b>	<b>146</b>	<b>232</b>	<b>19</b>	<b>164</b>	<b>0</b>	<b>122</b>	<b>287</b>	<b>238</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>1726</b>



## Report 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit  
Year of Entry 2016

Compartment 002  
Total Compartment Acres: 1,726

### Acres by Treatment Type

Commercial Harvest - 230    Tree Planting - 0    Other - 0  
Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	76	0	0	0	0	0	76
Lowland Coniferous Forest	12	0	0	0	0	0	12
Northern Hardwood	0	59	0	48	35	0	142
<b>Total</b>	<b>88</b>	<b>59</b>	<b>0</b>	<b>48</b>	<b>35</b>	<b>0</b>	<b>230</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	12002006-Cut	22.9	4139 - Aspen, Mixed Deciduous	High Density Log	76	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches or greater except oak, elm, cherry, red and white pine, hemlock and cedar if present. Cut all spruce and balsam that is <u>Specs:</u> greater than 6 inches at a 4 inch stump.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen check										
<u>Proposed Start Date:</u> 10/01/2015										
7	12002007-Cut	33.1	4134 - Aspen, Spruce/Fir	High Density Pole	65	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees 2 inches or greater in diameter except oak, elm, cherry, red and white pine, hemlock and cedar if present. Cut all spruce and balsam <u>Specs:</u> that is 6 inches or greater at a 4 inch stump.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen check										
<u>Proposed Start Date:</u> 10/01/2015										
17	12002017-Cut	26.9	4119 - Mixed Northern Hardwoods	High Density Pole	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription:</u> Thin to 60-90 BA taking out high risk, damaged or trees impacted by stress or disease. Do not cut cedar, hemlock, red or white pine, elm or oak <u>Specs:</u> if present in the stand. Note crop trees, thinning all around the crowns of the < 8" dbh trees and the two biggest competitors of the >9" dbh trees.										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2015										
18	12002018-Cut	32.3	4112 - Maple, Beech, Cherry Association	High Density Pole	85	81-110	Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription:</u> Thin to 60-90 BA taking out high risk trees impacted by stress or disease. Do not cut cedar, hemlock, red or white pine, elm or oak if present. <u>Specs:</u> Thin around crop trees taking the two greatest competitors where trees are > 9 inches and thin around the crowns of trees < 9 inches. Leave two aspen per acre if available for soft snags.										
<u>Other Comments:</u>										
<u>Next Steps:</u> Regen Check										
<u>Proposed 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
35	12002035-Cut	4.7	4134 - Aspen, Spruce/Fir	High Density Pole	60	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Cut all trees 2 inches or greater in diameter at breast height except oak, elm, cherry, red and white pine, cedar and hemlock if present. Cut all  
Specs: spruce and balsam 6 inches or greater at the stump.

Other  
Comments:

Next  
Steps: Regen check

Proposed  
Start Date: 10/01/2015

39	12002039N- Cut	35.1	4119 - Mixed Northern Hardwoods	High Density Pole	80	51-80	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Thin stand to 80 BA leaving best trees in place . Take out high risk trees and leave crop trees where possible. When crop trees are < 8 inches,  
Specs: thin around the tree. Where crop trees are > 9 inches, take two greatest competitors. If aspen is present, leave two per acre for soft snags.  
Leave all hemlock, cedar, oak and elm if present.

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: 10/01/2015

39	12002039S- Cut	47.7	4119 - Mixed Northern Hardwoods	High Density Pole	80	51-80	Harvest	Shelterwood	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
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Prescription Cut trees leaving the best formed trees that represent the stand. The final BA should be 30-50 . The goal is regeneration and the hemlock,  
Specs: cedar , red and white pine, oak and elm should not be harvested. Some cherry should be left also. Trees to focus harvesting would be aspen,  
birch, large spruce and fir, and red maple.

Other  
Comments:

Next  
Steps: Regen check according to certification.

Proposed  
Start Date: 10/01/2015

42	12002042-Cut	15.0	4134 - Aspen, Spruce/Fir	High Density Pole	60	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Cut all trees 2 inches or more in diameter at breast height except do not cut oak, elm, cherry, red and white pine, hemlock and cedar if present.  
Specs: Do not cut any spruce and balsam that is 6 inches or less at a 4 inch stump.

Other  
Comments:

Next  
Steps: Regen check

Proposed  
Start Date: 10/01/2015

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	12002049-Cut	12.1	6121 - Tamarack	High Density Pole	65	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal

Prescription: Cut all trees 2 inches or more in diameter except do not cut red and white pine, cedar or hemlock.

Specs:

Other

Comments:

Next Regen check

Steps:

Proposed

Start Date: 10/01/2015

**Total Treatment  
Acreage Proposed: 229.9**

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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!

PrescriptionSpecs:OtherComment:NextSteps:ProposedStart Date: #Type!Limiting Factor

<b>Total Treatment Acreage Proposed:</b>	<b>0.0</b>
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## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment 002  
Year of Entry 2016

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B	3J	3G	2G
	Available	Not Available							
604	604		<b>Aspen</b>	582		23			
32	32		<b>Cedar</b>	32					
16	16		<b>Lowland Aspen/Balsam Poplar</b>	16					
230	192	38	<b>Lowland Conifers</b>	192			24	14	
14		14	<b>Lowland Deciduous</b>						14
26	26		<b>Lowland Spruce/Fir</b>	26					
256	256		<b>Northern Hardwood</b>	256					
20	20		<b>Tamarack</b>	12	8				
92	92		<b>Upland Mixed Forest</b>	92					
1,291	1,239	52	Total Forested Acres	1,209	8	23	24	14	14
	96%	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
002	Not Available	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	24				
<b>Comments:</b>							
003	Not Available	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14				
<b>Comments:</b> Not good enough volume and size							
004	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8				
<b>Comments:</b> Needs to grow to a larger diameter							

**Report 5 – Site Conditions**

**Crystal Falls Mgt. Unit**  
**Linda Lindberg : Examiner**

**Compartment 002**  
**Year of Entry 2016**

005	Available	<b>5B: Maintain for regeneration purposes</b>	23
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**Comments:**

006	Not Available	<b>3G: Other Influence zones - See comments</b>	14
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**Comments:**



### 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
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Comments				
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**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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Pole	22.5	49	81-110	This is a mixture of ages but can be left for next time. Possible reason not to cut
3	4134 - Aspen, Spruce/Fir	High Density Pole	91.0	42	51-80	This is a "shoppers choice" stand which in the past, the trees were picked and chosen but the next time it is harvested, it will all be harvested at once.
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.7	75	81-110	
6	4139 - Aspen, Mixed Deciduous	High Density Log	22.9	76	81-110	
7	4134 - Aspen, Spruce/Fir	High Density Pole	33.1	65	81-110	This stand is a shoppers choice stand with two ages but will be harvested as a same age stand and this area has a larger component of larger diameter trees so the stand is being divided to vary the age classes.
9	6121 - Tamarack	High Density Pole	8.2	67		
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	14.1	82	81-110	This is low overall and has a lot of deer use.
11	6122 - Black Spruce	Medium Density Pole	1.3	70		
12	4110 - Sugar Maple Association	High Density Log	22.5	85	81-110	
14	4130 - Aspen	High Density Sapling	37.1	8		
15	6120 - Lowland Cedar	High Density Pole	31.8	66		
16	4130 - Aspen	High Density Pole	32.5	27		
17	4119 - Mixed Northern Hardwoods	High Density Pole	26.9	85	81-110	Lots of blown down trees and open areas
18	4112 - Maple, Beech, Cherry Association	High Density Pole	32.3	85	81-110	Lots of maple regen in here
19	4134 - Aspen, Spruce/Fir	High Density Sapling	69.5	13		There is high bush cranberry in here, a good group of white pine, and birch along the road.
20	6122 - Black Spruce	Medium Density Pole	7.0	66	51-80	somewhat scattered and small diameter
21	4130 - Aspen	High Density Sapling	35.4	10		some bare areas with a few large diameter hardwood trees



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 002 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
22	6122 - Black Spruce	Medium Density Pole	17.9	76		This stand goes out to a treed bog	
23	4130 - Aspen	High Density Sapling	17.2	16		2 to 4 inch diameter 25-30' tall aspen	
24	4130 - Aspen	High Density Sapling	15.7	7			
25	4110 - Sugar Maple Association	High Density Pole	38.2	75	51-80		
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.0	77			
28	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	25.0	78		This is a buffer to the creek that comes from the Michigamme River to the north	
29	4134 - Aspen, Spruce/Fir	High Density Sapling	12.1	13		The low was cut through here also and there is some birch regen along the road.	
30	4130 - Aspen	High Density Pole	12.1	47			
32	6112 - Lowland Aspen	Medium Density	16.5	6		This has aspen regen in some areas and nothing in a lot of the space because hardwood was the main species and it did not regenerate or sprout or anything else	
33	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	8.0	75	51-80	Scattered and small diameter	
34	6129 - Mixed Coniferous Lowland Forest	High Density Pole	22.5	71	81-110	This stand is all swamp but is a mixture. Basically b.spruce in the middle and cedar/hemlock on the east side with much deer use. The black spruce is small diameter but will grow and be harvestable in the future	
35	4134 - Aspen, Spruce/Fir	High Density Pole	4.7	60	51-80	This seems to be the same age as stand 36 which will be cut and some of stand 30 will be cut also.	
36	4110 - Sugar Maple Association	High Density Pole	45.2	80	81-110		
37	4134 - Aspen, Spruce/Fir	High Density Sapling	12.1	15			
38	4134 - Aspen, Spruce/Fir	High Density Pole	60.7	27			
39	4119 - Mixed Northern Hardwoods	High Density Pole	82.8	80	51-80	There are a lot of vernal ponds in this stand.	



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 002	Year of Entry: 2016
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
40	4130 - Aspen	High Density Pole	41.8	26			
41	6124 - Lowland Spruce-Fir	High Density Pole	10.5	62	51-80		way more small than large
42	4134 - Aspen, Spruce/Fir	High Density Pole	15.0	60	51-80		
45	4130 - Aspen	High Density Pole	19.0	37			
46	4110 - Sugar Maple Association	High Density Log	8.7	Uneven Age	51-80		Much regen in this stand (mostly maple)
47	6129 - Mixed Coniferous Lowland Forest	Medium Density	132.2	75	51-80		
49	6121 - Tamarack	High Density Pole	12.1	65	51-80		This is a fairly solid tamarack stand that I would wait til it grew a little but age claims it can be cut now.
50	4134 - Aspen, Spruce/Fir	Medium Density	5.0	26			
51	4319 - Mixed Upland Forest	High Density Pole	91.8	26			
52	4130 - Aspen	High Density Pole	19.9	42	81-110		Nice clumps of tall but smaller dbh conifers Lots not merchantable much less mature!!
53	4134 - Aspen, Spruce/Fir	High Density Pole	18.9	42	81-110		Grouse, chickadees and lots of deer beds. A lot of deer browse
57	4130 - Aspen	Medium Density	6.4	7			
59	6124 - Lowland Spruce-Fir	High Density Pole	13.8	80	81-110		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	629 - Mixed non-forested wetland	2.4	No	Unspecified	
4	50 - Water	3.9	No	Unspecified	
8	6229 - Mixed lowland shrub	16.8	No	Unspecified	
13	3105 - Mixed Upland Herbaceous	1.9	No	Unspecified	
27	50 - Water	4.9	No	Unspecified	
31	6229 - Mixed lowland shrub	5.4	No	Unspecified	
43	6229 - Mixed lowland shrub	6.1	No	Unspecified	
44	6229 - Mixed lowland shrub	191.3	No	Unspecified	
48	6229 - Mixed lowland shrub	2.0	No	Unspecified	
54	6229 - Mixed lowland shrub	180.6	No	Unspecified	
55	6229 - Mixed lowland shrub	4.1	No	Unspecified	
56	11 - Low Intensity Urban	5.9	No	Unspecified	Sawyer Lake Road
58	3102 - Grass	7.7	No	Unspecified	