

Crystal Falls Forest Management Unit Compartment Review Presentation Compartment #143 Entry Year: 2013

Compartment Acreage: 719 County: Iron

Revision Date: June 23, 2011

Stand Examiner: Cynthia Cooper

Legal Description: T43N, R 31W. Sections 1-3.

RMU (if applicable): None

Management Goals: Maintain and improve aspen and hardwoods.

Soil and Topography: The eastern half of this compartment is mostly Lupton-Cathro-Humaquents complex (muck) which is poorly to very poorly drained soil found in lowlands. In the western half Keweenaw-Karlin complex soils, which are well to excessively well drained, predominate.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of this compartment is surrounded by single ownerships and industrial timber lands.

Unique, Natural Features: None.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is located in the core part of the Mansfield Cut-Off Deeryard. Maintenance and enhancement of both the existing lowland conifer stands and the upland conifer component is critical to support healthy deer numbers in the area.

Mineral Resource and Development Concerns and/or Restrictions:

Compartment 143: Sections 1 - 3, T43N-R31W, Iron Co.

Surface sediments consist of an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock and Michigamme Formations subcrop below the glacial

drift. There is not a current economic use for these rocks. The abandoned Mansfield iron mine is located two miles to the southwest. This compartment was previously leased for metallic exploration and potential may still exist. The Lake Ellen kimberlite discovery lies to the north. The nearest gravel pit is located two miles to the southeast. There should be gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access: West half had fair access. East side poor. Compartment can be accessed only through private ownerships.

Survey Needs: Corners will be needed in section 3.

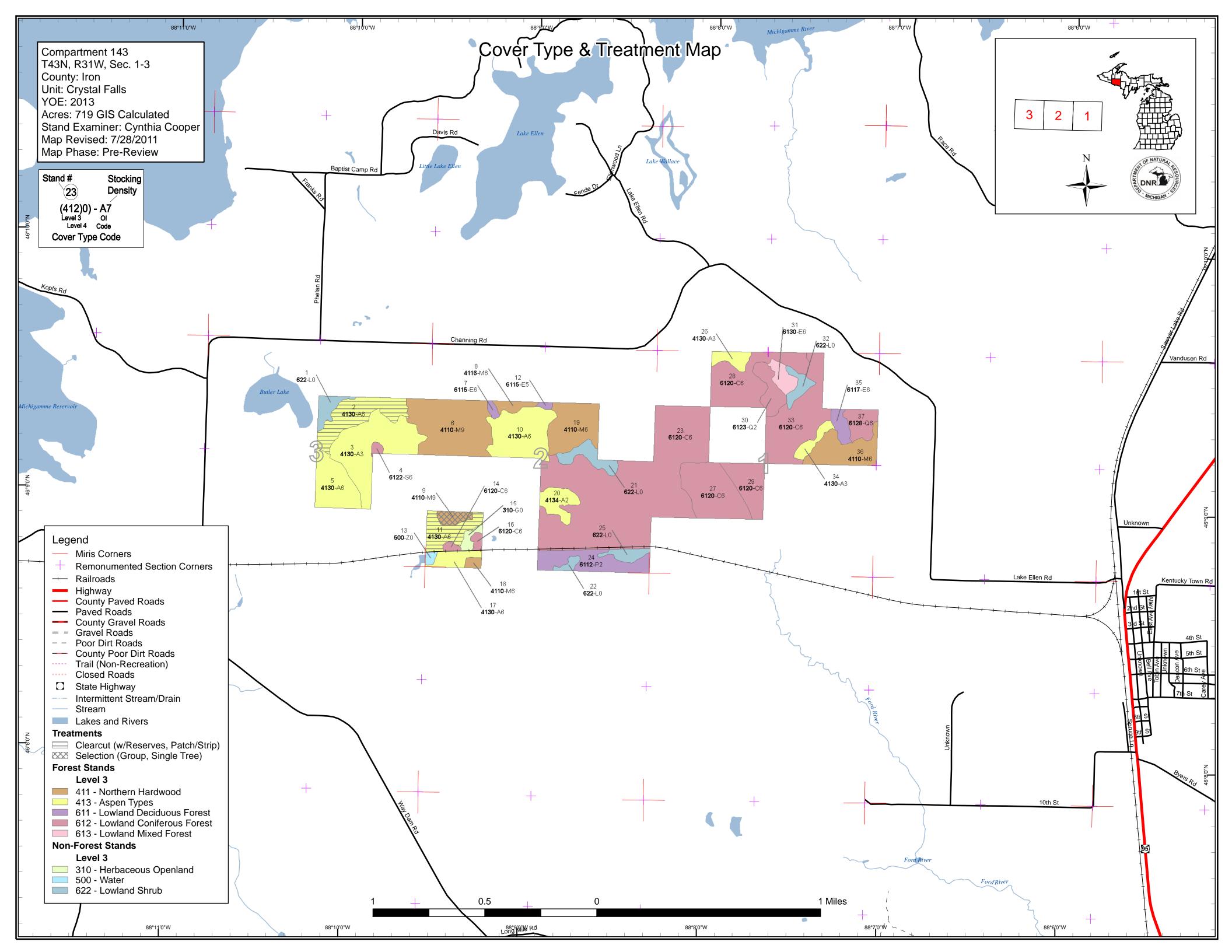
Recreational Facilities and Opportunities: Sections 1 and 2 are winter deer yard.

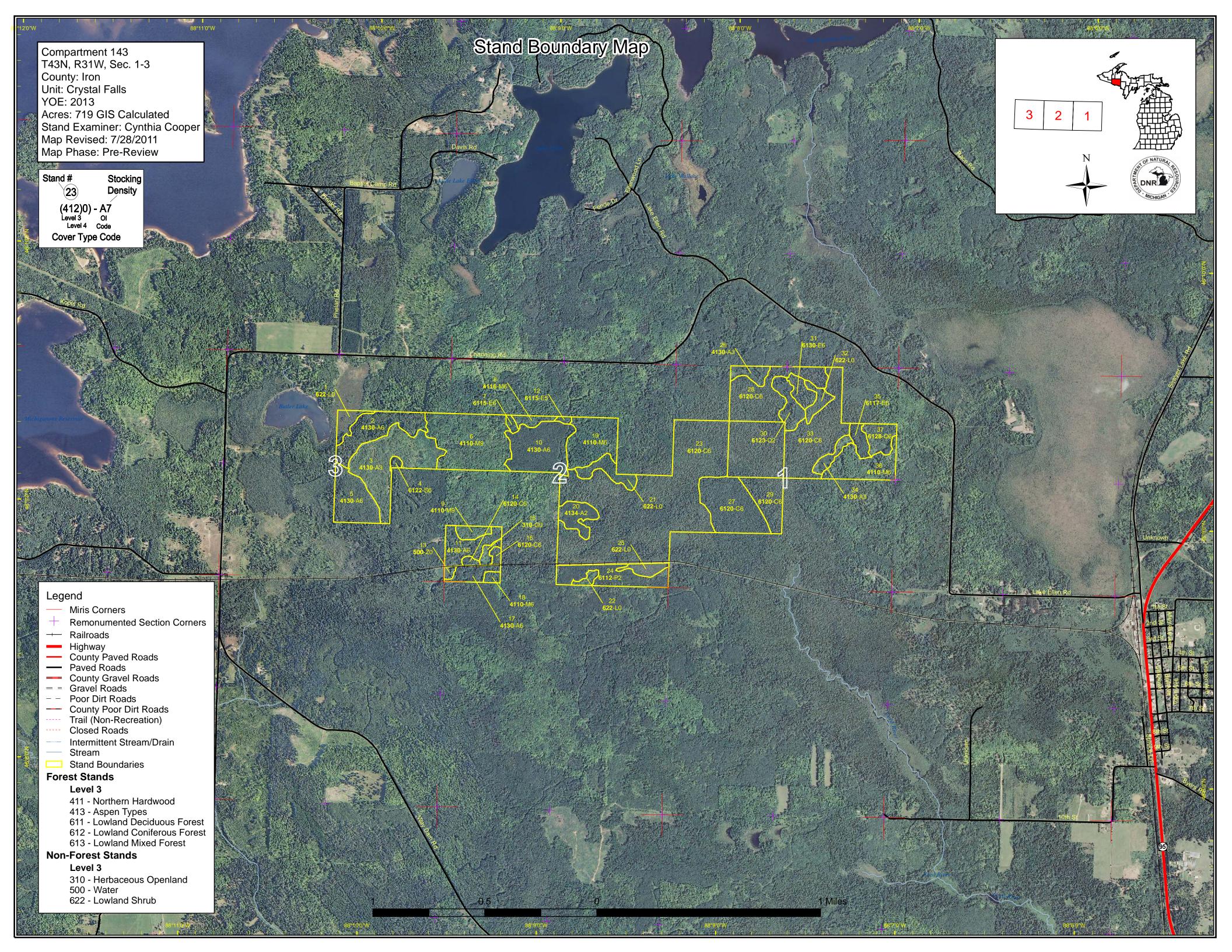
Fire Protection:

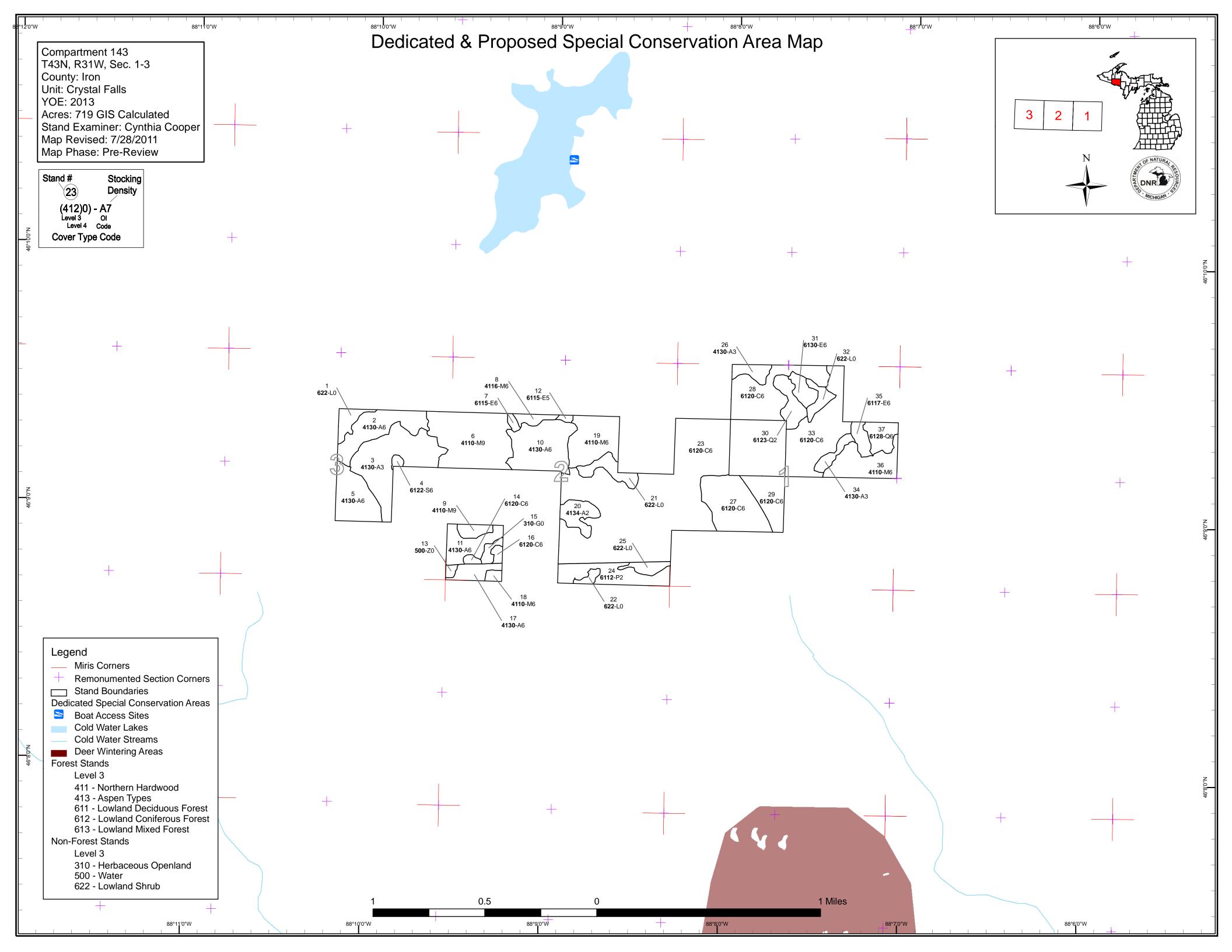
Additional Compartment Information:

- ➤ The following reports from the Inventory are attached:
 - **♦** Total Acres by Cover Type and Age Class
 - **♦** Proposed Treatment Summary
 - **♦** Proposed Treatments No Limiting Factors
 - **♦** Proposed Treatments With Limiting Factors
 - **♦** Stand Details (Forested and Nonforested)
 - **♦** Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - ♦ Base feature information, stand boundaries, cover types, and numbers
 - **♦** Proposed treatments
 - **♦** Details on the road access system

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Compartment 143 Year of Entry 2013

Crystal Falls Mgt. Unit
Cynthia Cooper: Examiner



Age Class

Age Class																	
	Hon	Sign of the second seco	67/	0.79	, & /	\$6.96 /	AD. D.	\$5.0g	\$0.00	, R. /	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	86.7	00,00	70,70	70° 30°	8 / A	, so l
Aspen	0	49	6	61	0	35	0	0	0	16	0	0	0	0	18	184	
Cedar	0	0	0	0	0	0	0	0	0	0	0	318	0	0	0	318	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	j
Lowland Aspen/Balsam Poplar	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23	
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11	22	j
Lowland Deciduous	0	0	0	0	0	0	0	0	3	0	6	0	0	0	0	9	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	j
Lowland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	j
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	j
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	108	0	0	0	5	117	j
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	j
Total	36	49	6	84	0	35	0	0	3	29	124	318	0	0	34	719	1



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit

Compartment 143 Year of Entry 2013 **Total Compartment Acres: 718.6**

Acres by Treatment Type

Commercial Harvest - 48 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 0

Cover Type by Harvest Method

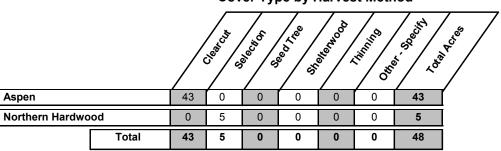


Table 3 -- Treatments Prescribed Compartment: 143 Crystal Falls Mgt. Unit Year of Entry 2013 with No Limiting Factor s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Name CoverType Method Objective Status **Density** Age Type d 2 12143002-Cut 27.0 Clearcut with 4130 - Aspen Cmpt. Review 4130 - Aspen High Density Pole 46 Harvest Reserves Proposal Prescription. Clear cut down to 2" dbh except cut no tamarack and no cedar, pine, oak or hemlock if present. Specs: Other_ Comments: <u>Next</u> Regeneration survey. Steps: 12143009-Cut 9 5.1 4110 - Sugar Maple High Density Log 95 Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review Association Association Proposal Prescription Thin reducing basal area to 80. Leave some aspen in stand for diversity. Specs: <u>Other</u> Comments:

Reserves

High Density Pole

<u>Prescription</u> Clear cut down to 2" retaining spruce/fir less than 6" on the stump and any pine, oak or hemlock if present. <u>Specs:</u>

<u>Other</u>

Next Steps:

11

Winter cut would be good, but not required, to protect advance hardwood regeneration along stand 9 boundary in the northwest.

Harvest

Clearcut with

Comments:

Next Regeneration survey

Steps:

Total Treatment

12143011-Cut

15.9

4130 - Aspen

Acreage Proposed: 48.1

Cmpt. Review

Proposal

4130 - Aspen

Crystal Falls Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 143 a Limiting Factor s Year of Entry 2013 t **Treatment** n **Treatment Acres** Stage1 Size Stand **Treatment Cover Type Approval** Name CoverType Density Method Objective Status Age Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: Limiting Factor and No

Total Treatment
Acreage Proposed:

Treatment Reason

0

Out of YOE -- Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2013

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12060_OutOfY OE-Cut	6.0				Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Prescription Clea	arcut 2" db	h and above except o	cedar, hemlock a	and pine if p	present.			
Other Comments:								
Next Steps:								

Total Treatment Acreage Proposed: 6.0

s t	Crystal Falls Mgt. Unit			5 – For	rested Stand	Compartment: 143 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	High Density Pole	27.0	46		
3	4130 - Aspen	High Density Sapling	48.9	6		cut in 2004
4	6122 - Black Spruce	High Density Pole	1.5	85		tiny stand at edge of clearcut aspen.
5	4130 - Aspen	High Density Pole	24.8	26		
6	4110 - Sugar Maple Association	High Density Log	53.7	95		
7	6115 - Lowland Ash	High Density Pole	1.8	75		
8	4116 - Mixed N. Hardwood - Aspen	High Density Pole	4.5	85	81-110	
9	4110 - Sugar Maple Association	High Density Log	5.1	Uneven Age	111-140	many hard maple saps and some seedlings
10	4130 - Aspen	High Density Pole	36.1	25		
11	4130 - Aspen	High Density Pole	15.9	85		
12	6115 - Lowland Ash	Medium Density Pole	1.2	75		
14	6120 - Lowland Cedar	High Density Pole	1.7	102		
16	6120 - Lowland Cedar	High Density Pole	2.2	102		
17	4130 - Aspen	High Density Pole	8.0	40		
18	4110 - Sugar Maple Association	High Density Pole	2.2	90	81-110	
19	4110 - Sugar Maple Association	High Density Pole	27.8	95		
20	4134 - Aspen, Spruce/Fir	Medium Density	11.3	Uneven Age		spruce/fir stand cut in 1995 coming back to aspen and spruce/fir.
23	6120 - Lowland Cedar	High Density Pole	177.4	108		

S t	Crystal Falls	Mgt. Unit		5 – For	ested Stands	Compartment: 143 Year of Entry: 2013	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	ANICHIGAN S
24	6112 - Lowland Aspen	Medium Density	23.2	20			
26	4130 - Aspen	High Density Sapling	6.7	Uneven Age			
27	6120 - Lowland Cedar	High Density Pole	36.6	108			
28	6120 - Lowland Cedar	High Density Pole	36.3	108			
29	6120 - Lowland Cedar	High Density Pole	18.6	108			
30	6123 - Lowland Fir	Medium Density	11.3	Uneven Age		white pine residual from last cut.	
31	6130 - Fir, Aspen, Maple	High Density Pole	7.1	85		wet	
33	6120 - Lowland Cedar	High Density Pole	45.3	108			
34	4130 - Aspen	High Density Sapling	5.8	13			
35	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.0	95			
36	4110 - Sugar Maple Association	High Density Pole	23.9	98	81-110	Thinned in 1998 Hemlock in stand.	
37	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.5	95			

6 - Nonforested Stands

Compartment: 143 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6229 - Mixed lowland shrub	6.8	No	Unspecified	
13	50 - Water	1.6	No	Unspecified	
15	3102 - Grass	3.3	No	Unspecified	
21	6229 - Mixed lowland shrub	10.1	No	Unspecified	
22	6229 - Mixed lowland shrub	2.6	No	Unspecified	
25	6229 - Mixed lowland shrub	5.5	No	Unspecified	
32	6229 - Mixed lowland shrub	6.2	No	Unspecified	

Crystal Falls Mgt. Unit

Compartment: 143
Year of Entry: 2013



7 - 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.

Stand	SCA Type	SCA Name	Acres	Comments

Crystal Falls Mgt. Unit

Compartment: 143 Year of Entry 2013



8 - DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Type Description
Area

ERA = Ecological Reference Area

HCVA = High Conservation Value Area

SCA = Special Conservation Area