

Crystal Falls Forest Management Unit Compartment Review Presentation Compartment #170 Entry Year: 2014

Compartment Acreage: 596 County: Iron

Revision Date: June 9, 2012

Stand Examiner: Cynthia Cooper

Legal Description: T42N, R31W, Sections 33 & 34

RMU (if applicable):

Management Goals: For this year of entry, improve aspen and salvage softwoods damaged by spruce budworm.

Soil and Topography: Fine sandy loams predominate. The area is mostly flat upland, the main exception being the Gage's Creek corridor.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State Forest land used for timber production surrounded by private ownerships. Michigamme Lake to the south and Peavy Pond to the west make this area very popular with water enthusiasts.

Unique, Natural Features: Gage's Creek

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations: Spruce Budworm has caused a decline in the health of conifers in the southwest of section 34.

Watershed and Fisheries Considerations: Gage's Creek.

Wildlife Habitat Considerations: This compartment is located on the south end of the Old Camp 5 Deer Wintering Complex. The ability of this complex to maintain wintering deer has declined as the upland conifer component has decreased and lowland conifer components have been impacted by harvests within this compartment and in adjacent compartments and other ownerships. The ability of this area to winter deer hinges on protection of lowland conifers and enhancement of upland conifers. Spruce budworm will result in extensive losses of both spruce and fir, so reliance on hemlock, cedar and pine will become critical.

Mineral Resource and Development Concerns and/or Restrictions: <u>Compartment 170: Sections 33 & 34, T42N-R31W, Iron County</u>

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 50 and 200 feet. The Precambrian Menominee and Chocolay Formations, and Archean granite/gneiss and volcanic and sedimentary rocks subcrop below the glacial drift. There is not a current economic use for these rocks, although the granite/gneiss may have dimension stone potential. Abandoned iron mines are located six miles to the north. Part of this area was previously leased for metallic exploration and potential may still exist. A gravel pit is located in Section 33 and there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access: Private property limits access to the north portion of section 33 and the south half of section 34.

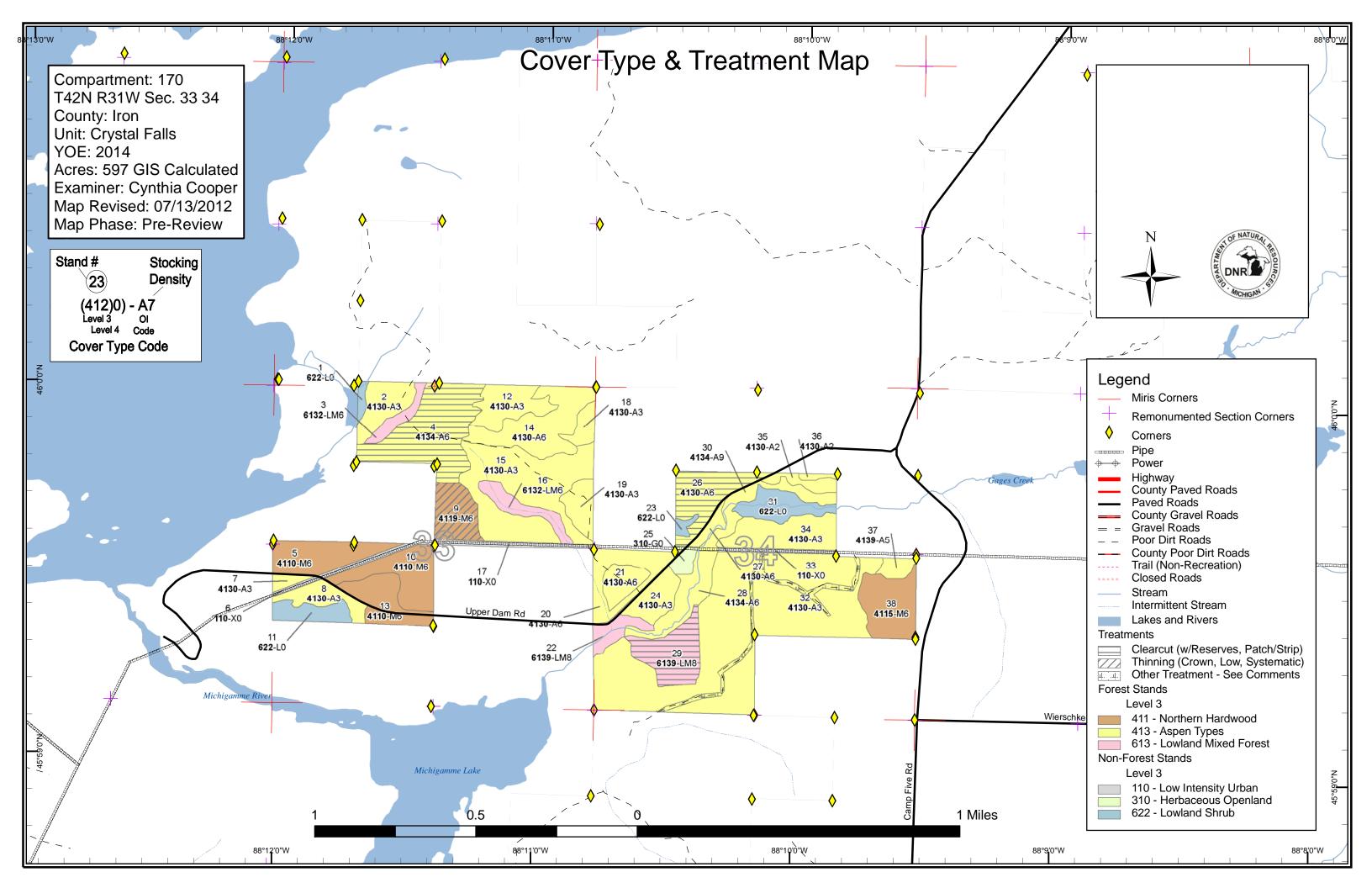
Survey Needs: None this year of entry.

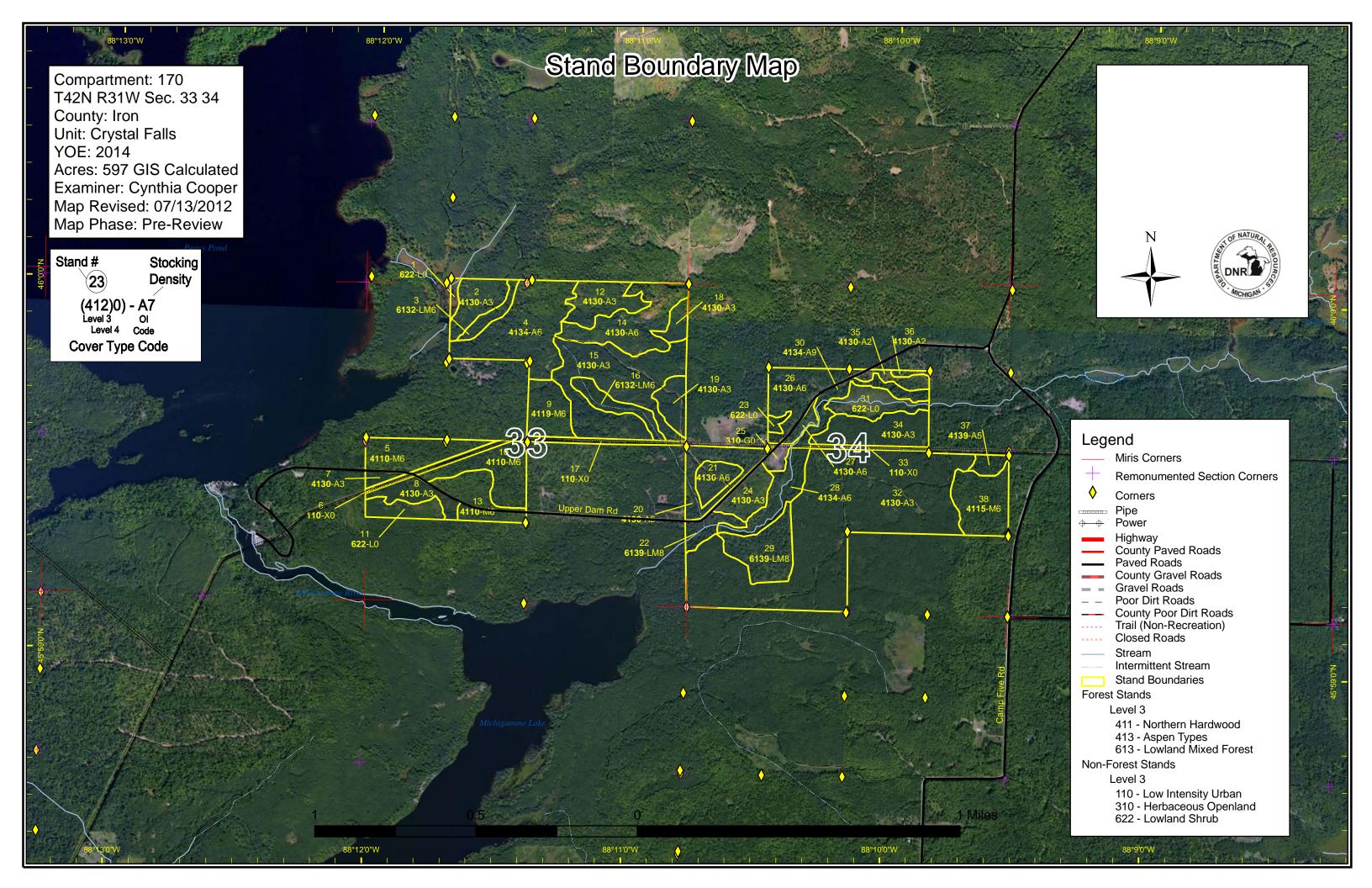
Recreational Facilities and Opportunities: Fishing Gage's Creek.

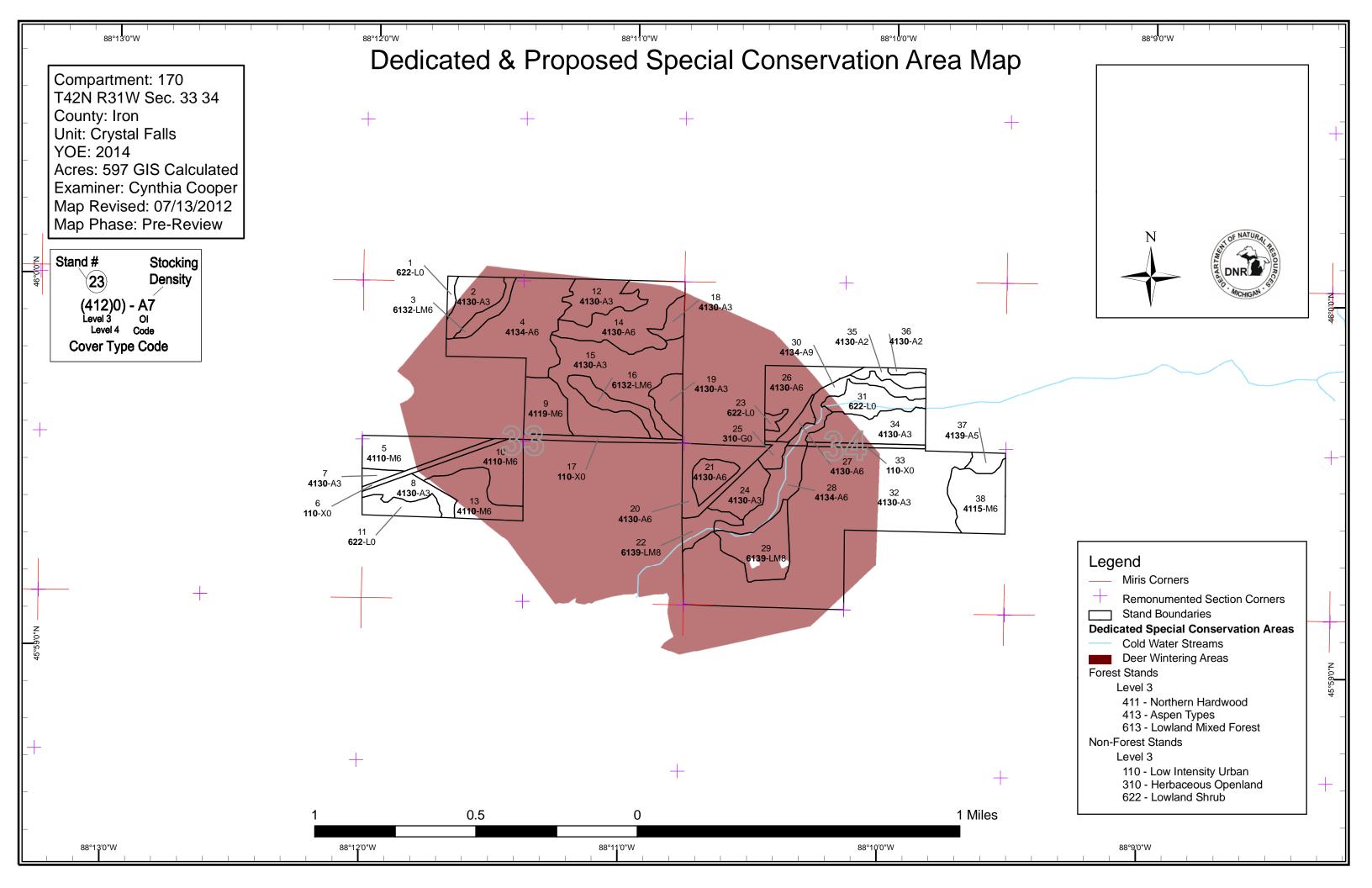
Fire Protection:

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







Compartment 170 Year of Entry 2014

Crystal Falls Mgt. Unit
Cynthia Cooper: Examiner



						Age	Class									
		80	0,0	, p	, S. J.	LO'AS	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8.0	10.10	\$ \ &	8 /	00,00	10,779 10,779	0 X / 310	AS /	, so l
Aspen	16	1	265	0	35	0	35	0	74	0	0	0	0	0	427	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Mixed Forest	0	0	0	0	0	0	0	9	32	0	0	0	0	0	41	
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
Northern Hardwood	0	0	0	0	0	0	0	0	89	0	0	0	0	0	89	
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Total	56	1	265	0	35	0	35	9	195	0	0	0	0	0	597	



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit

Compartment 170 Year of Entry 2014 **Total Compartment Acres: 596.6**

Acres by Treatment Type

Commercial Harvest - 94 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 9

Cover Type by Harvest Method

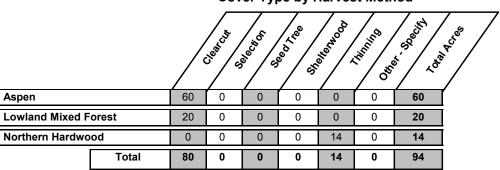


Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 170 Year of Entry 2014 DNR MICHIGAN

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	12170004-Cut	40.4	4134 - Aspen, Spruce/Fir	High Density Pole	82		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

<u>Prescription</u> Stand was approved in review as a clear cut in the 2011 additions to harvest and is currently under contract.

Specs:

s

Other Common

Comments:

Next Steps:

Proposed

Start Date: 10/01/2012

9 12170009-Cut 14.2 4119 - Mixed High 82 Harvest Crown Thinning 4119 - Mixed Cmpt. Review Northern Hardwoods Density Northern Hardwoods Proposal Pole

<u>Prescription</u> This stand is under contract as part of the 2011 additions to harvest.

Specs:

Other Comments:

<u>Next</u>

Steps: Proposed

Start Date: 10/01/2012

26 12170026-Cut 20.0 4130 - Aspen High 60 Harvest Clearcut with 4134 - Aspen, Cmpt. Review Density Reserves Spruce/Fir Proposal

Prescription cut all trees down to a 2" dbh except cut spruce/fir 6" and greater at the stump. Cut no pine.

Pole

Specs:

Other Comments:

Next regeneration survey.

Steps:

<u>Proposed</u>

Start Date: 10/01/2013

29 12170029-Cut 19.7 6139 - Mixed Medium 87 Harvest Clearcut 4134 - Aspen, Cmpt. Review Lowland Forest Density Log Spruce/Fir Proposal

Prescription cut all trees down to a 2" dbh except cut no pine, hemlock or cedar if present.

Specs:

Other Spruce budworm has been in this stand.

Comments:

Next regeneration survey

Steps:

Proposed

Start Date: 10/01/2013

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 170 Year of Entry 2014

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	Υ.	0	7	
PAR	DN	IR	V	URC
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	100	CHIG		

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32	12170032- NonFor	9.3	4130 - Aspen	High Density Sapling	27		Non-Forest Management	Other - Specify	31021 - Cool Season Grass	Cmpt. Review Proposal

<u>Prescription</u> Seed hunter walking trail system. Trail system is 40 feet wide.

Specs:

s

Other Commonts

Comments: Next

Steps: Proposed

Start Date: Unspecified

Total Treatment

Acreage Proposed: 103.5

Crystal Falls Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 170 a Limiting Factor s Year of Entry 2014 n **Treatment Acres** CoverType Size Stand BA **Treatment Treatment Cover Type Approval** Name Age Method Objective Status Density Range Type d #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps: <u>Proposed</u> Start Date: #Error

Total Treatment Acreage Proposed:

Limiting Factor and No Treatment Reason

0

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

Year of Entry: 2014

 Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12091001-Cut	31.4	4110 - Sugar Maple Association	High Density Log	87		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal - Incomplete

Prescription Mark trees to 80 BA leaving best tree in place according to the Compleat Marker but focusing on White Ash to avoid Emerald Ash borer Specs:

devastation. Create canopy gaps for regeneration

<u>Other</u> Comments:

Regen check according to certification

<u>Next</u> Steps:

Proposed

10/01/2013 Start Date:

Total Treatment

31.4 Acreage Proposed:

s t	Crystal Fall	s Mgt. Unit		5 – Fo	prested Stan	ds Compartment: 170 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4130 - Aspen	High Density Sapling	12.6	27		
3	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.1	82		
4	4134 - Aspen, Spruce/Fir	High Density Pole	40.4	82		Stand currently on proposal as additional acres for 2011.
5	4110 - Sugar Maple Association	High Density Pole	18.5	82	81-110	Cut in 2007 as Magnetic Hardwoods
7	4130 - Aspen	High Density Sapling	2.4	26		
8	4130 - Aspen	High Density Sapling	9.8	26		
9	4119 - Mixed Northern Hardwoods	High Density Pole	14.2	82		Stand on proposal as additional acres for 2011. Chess Sale
10	4110 - Sugar Maple Association	High Density Pole	19.8	82	81-110	Stand cut in 2007 as Magnetic Hardwoods.
12	4130 - Aspen	High Density Sapling	14.8	27		
13	4110 - Sugar Maple Association	High Density Pole	16.2	82	51-80	
14	4130 - Aspen	High Density Pole	27.5	47		
15	4130 - Aspen	High Density Sapling	52.9	27		
16	6132 - Mixed Lowland Forest with Cedar	High Density Pole	8.8	79		
18	4130 - Aspen	High Density Sapling	5.0	27		
19	4130 - Aspen	High Density Sapling	8.3	27		
20	4130 - Aspen	High Density Pole	15.3	60		
21	4130 - Aspen	High Density Pole	8.0	47		
22	6139 - Mixed Lowland Forest	Medium Density Log	7.1	87		
-						

Crystal Falls Mgt. I		s Mgt. Unit		5 – Fo	orested Stand	Compartment: 170 Year of Entry: 2014	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	AICHIGAN .
24	4130 - Aspen	High Density Sapling	11.1	6		small amount of F and WP residual	
26	4130 - Aspen	High Density Pole	20.0	60			
27	4130 - Aspen	High Density Pole	3.2	82		Stand is between road and slope to creek.	
28	4134 - Aspen, Spruce/Fir	High Density Pole	15.1	82		Buffer to Baird/Gages Creek	
29	6139 - Mixed Lowland Forest	Medium Density Log	19.7	87			
30	4134 - Aspen, Spruce/Fir	High Density Log	11.5	82			
32	4130 - Aspen	High Density Sapling	138.1	27		moving into A5	
34	4130 - Aspen	High Density Sapling	20.6	27		Moving into A5	
35	4130 - Aspen	Medium Density	4.8	6			
36	4130 - Aspen	Medium Density	1.3	17			
37	4139 - Aspen, Mixed Deciduous	Medium Density Pole	3.9	86		Intention in previous YOE was to convert this to a ha stand soonly a portion af the aspen was removed wh 2007 as the Magntic Hardwoods sale. Stand is now ab aspen and mixed hardwood poles.	en cut in
38	4115 - Y.Birch, Hemlock NH	High Density Pole	20.5	86	81-110	Cut in 2007 as Magnetic Hardwoods.	

6 - Nonforested Stands

Compartment: 170 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	6229 - Mixed lowland shrub	1.8	No	Unspecified	
6	11 - Low Intensity Urban	4.4	No	Unspecified	power line
11	6220 - Alder/willow	8.5	No	Unspecified	
17	11 - Low Intensity Urban	4.8	No	Unspecified	power line
23	6229 - Mixed lowland shrub	1.6	No	Unspecified	
25	3102 - Grass	3.5	No	Unspecified	gravel pit
31	6229 - Mixed lowland shrub	12.6	No	Unspecified	
33	11 - Low Intensity Urban	3.0	No	Unspecified	powerline

Compartment: 170 Year of Entry: 2014



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

Compartment: 170 Year of Entry 2014



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.

SCA Cold Water Stream A coldwater stream has temperature and dissolved oxygen conditions that stocked trout populations and those of other coldwater fish species (e.g., syear to year. Coldwater streams in Michigan typically provide these conditions of groundwater to their stream flows. Such streams are established as trout resources by Fisheries Order 210.	High Conservation Value Area Decial Conservation Area
	imy sculpin) to persist from ons due to substantial
SCA Habitat Area An area that provide some specific need for the life cycle of wildlife specie and Waterfowl Production Areas, deer wintering complexes in lowland cor openings and savannas. Habitat areas are distinct from critical habitat des endangered or threatened species (such as Kirtland's warbler or piping plogeneral in nature, are not primarily associated with threatened or endange covered by species recovery plans that are developed in cooperation with	fer communities, grassland gnated for recovery of ver areas) in that they are more ed species, and are not