

**Revision Date:** May 7, 2012

Stand Examiner: Linda Lindberg

Legal Description: T45N, R34W, Sections 16,20 and 21

**RMU (if applicable):** Text

**Management Goals:** This is a deeryard and we are trying to manage the aspen with even, sustainable age classes while also, thinning the hardwood and maintaining buffers along both the Net River and the Portage Creek. One aspen stand has died out with the drought conditions and is converting to conifers which is more condusive to the soil type. There is a pine stand along the river that is mostly in the river buffer.

**Soil and Topography:** The soil includes Iron River Loam, Hiawatha fine sandy loam and Baraga loam. There are some hills in this compartment and some rather steep areas but most is rolling and accessible.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Access to most parcels is through private land but the DNR has a good relationship with landowners and we have always been able to harvest when necessary.

Unique, Natural Features: Text

Archeological, Historical, and Cultural Features: Text

Special Management Designations or Considerations: Text

Watershed and Fisheries Considerations: Text

**Wildlife Habitat Considerations:** This compartment lies in the southern 1/3 of the Cable Lake-Porter Lake Deer Wintering Complex along the Net River and Porter Creek. This area has an active eagles nest, support many deer during the winter. Wolves have been well established in this area for many years. This compartment is also an important corridor for migrating wildlife. Conifer cover is critical to the use of both lowlands and uplands.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of an end moraine of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not an economic use for the Michigamme. The Porter and Warner abandoned iron mines are located six miles to the southeast. This compartment has not been previously leased for metallic exploration, but potential may exist. The nearest gravel pit is located four miles to the east, but there should be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** There are main roads which get us close to comp 132 stands and there are primitive roads into the stands but most go through private land first.

Survey Needs: Some corners will need to be established.

**Recreational Facilities and Opportunities:** Text

Fire Protection: Text

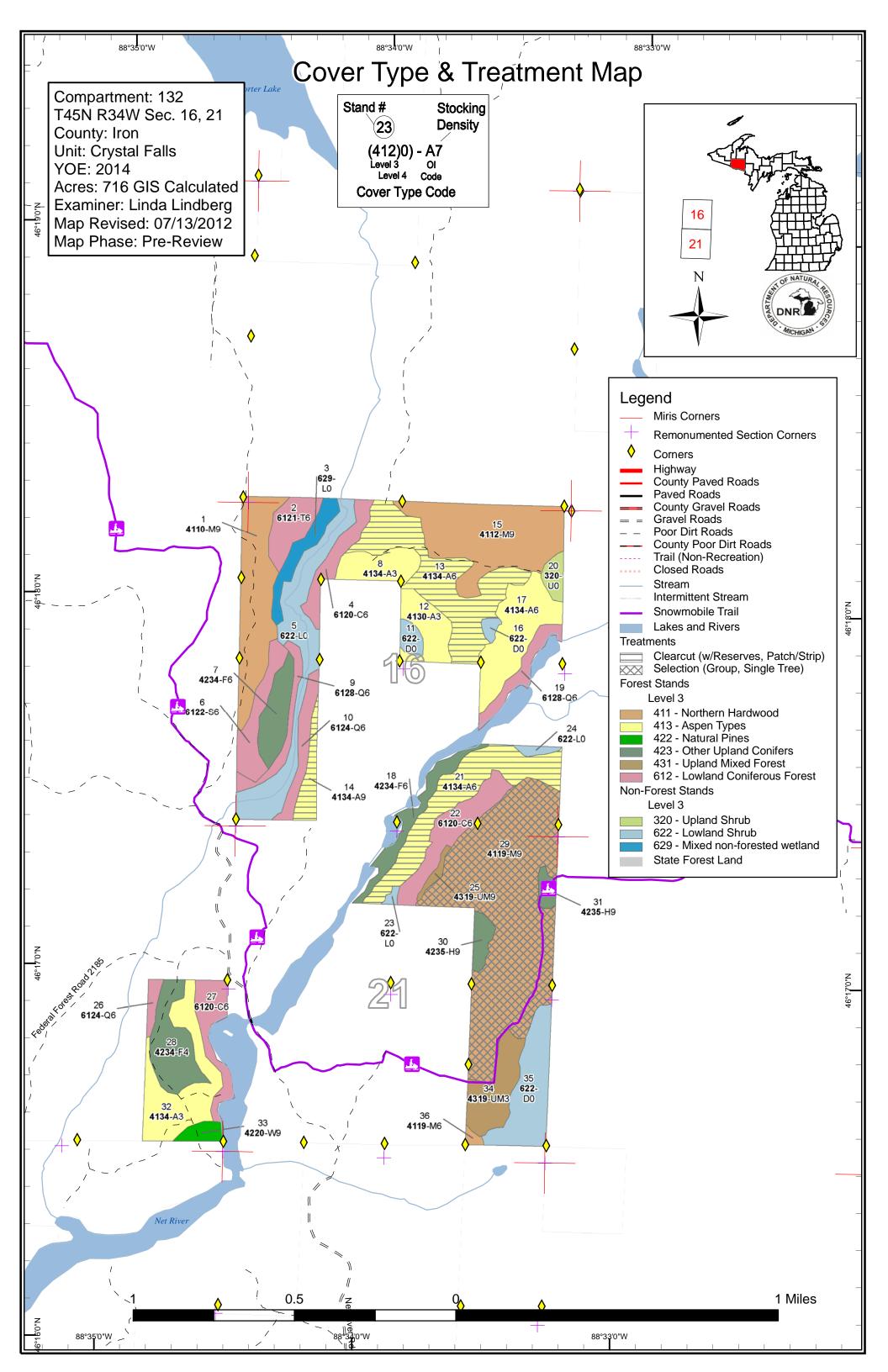
Additional Compartment Information: Text

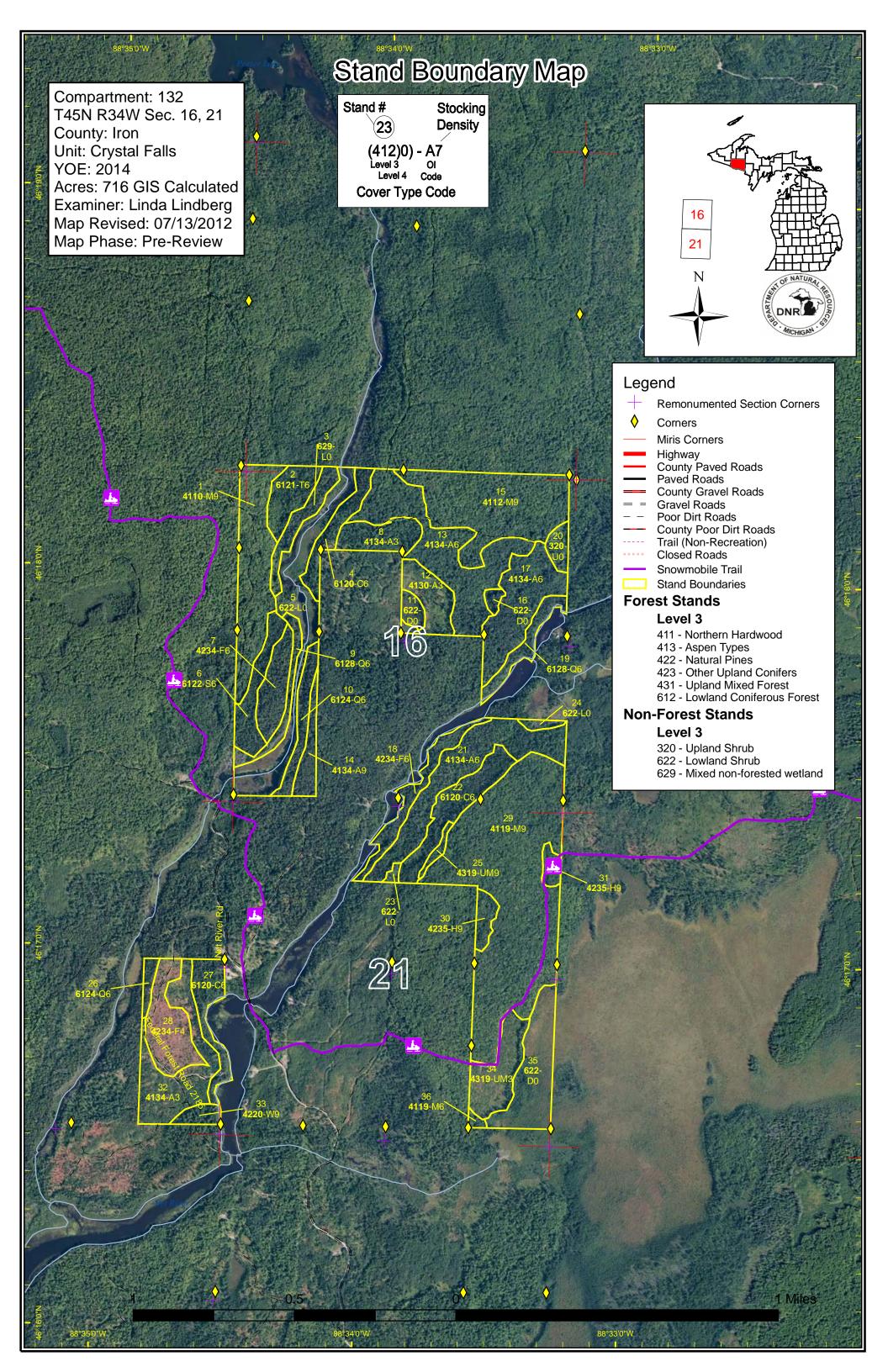
> The following 5 reports from the Operations Inventory System (OIPC) are attached:

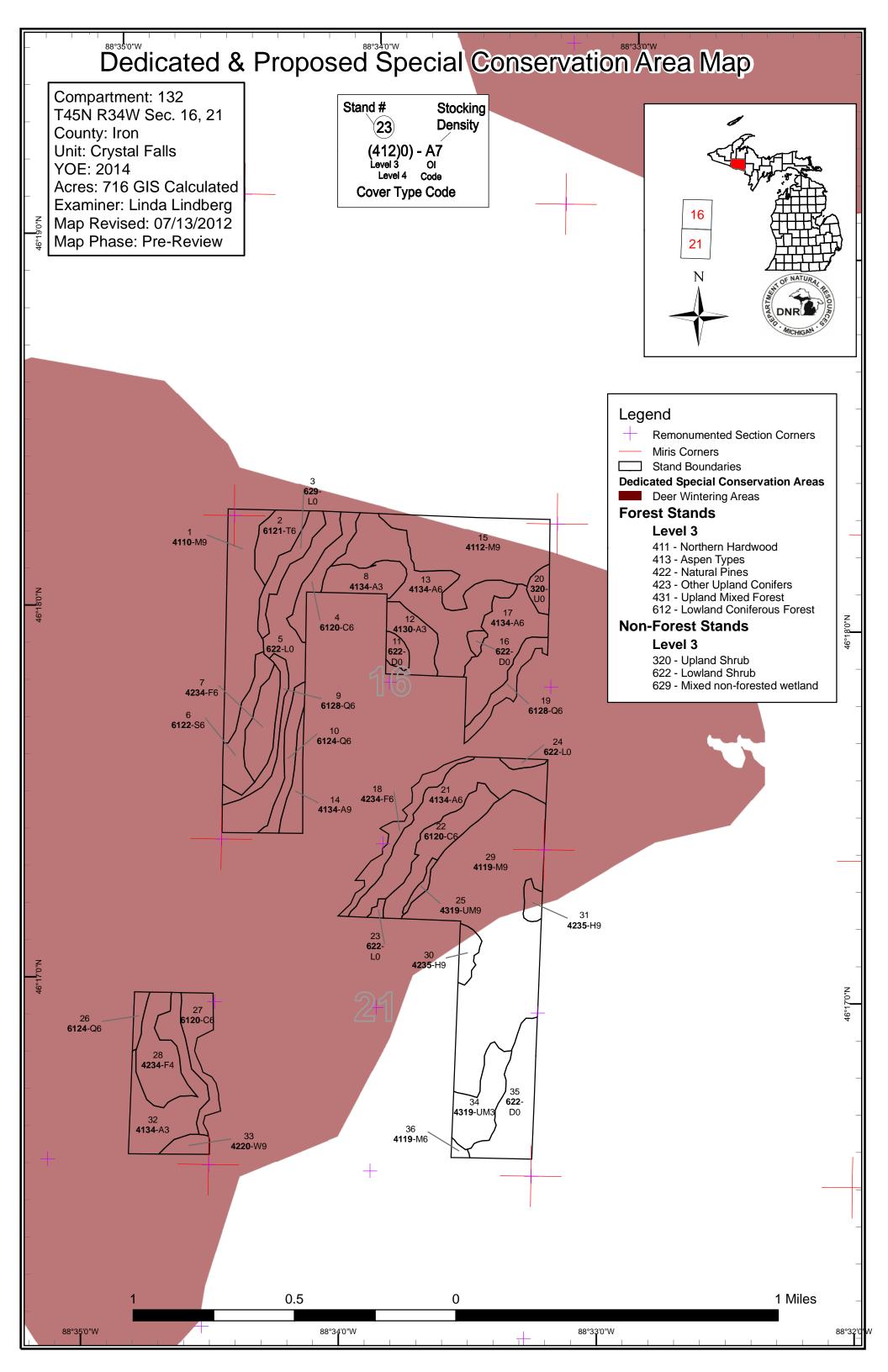
- Cover Type by Age Class
- Cover Type by Management Objective
- ♦ Compartment Volume Summary
- Proposed Treatments No Limiting Factors
- Proposed Treatments With Limiting Factors

> The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand numbers, cover types
- Proposed treatments
- Proposed road access system
- Suggested potential old growth







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

Crystal Falls Mgt. Unit Linda Lindberg : Examiner

# Compartment 132 Year of Entry 2014



Age Class

		$\square$	7	7	7	7	7	7	7	7	7	7.	7	7		
	/	6.0	61.01	10 <sup>2</sup>		AD AP	95. 15 15	89 19	101	\$0 \$0 6	67	601.001	617011	50× 150	Les ~	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
Aspen	0	29	0	32	0	0	83	0	49	0	0	0	0	0	193	í
Cedar	0	0	0	0	0	0	0	0	48	0	0	0	0	0	48	1
Hemlock	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9	Î
Lowland Conifers	0	0	0	0	0	0	0	0	24	8	0	0	0	0	32	Î
Lowland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	56	Î
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	15	0	0	0	0	15	Î
Northern Hardwood	0	0	0	0	0	0	0	0	232	0	0	0	0	0	232	Î
Tamarack	0	0	0	0	0	0	0	0	0	13	0	0	0	0	13	Î
Treed Bog	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35	Î
Upland Mixed Forest	0	20	0	0	0	0	0	0	2	0	0	0	0	0	22	1
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1
Upland Spruce/Fir	0	0	0	22	0	0	0	13	0	14	0	0	0	0	50	1
White Pine	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	1
Total	96	49	0	54	0	0	83	13	364	51	5	0	0	0	716	]



- MICHIOAN	Crystal Falls Mgt. Unit Year of Entry 2014									Compartment Total Compartment Acres:	
				Acres by	Treatm	ent Ty	vpe				
	Commercial Harvest - 236	Site Prep - 0		Tree	Planting	- 0		Presc	ribed Burn - 0	Other - 0	
	Habitat Cut - 0	Opening Mainten	ance - 0	Tree	Seeding	- 0		Pesti	cide - 0		
				Cover T	ype by ł	Harves	st Meth	nod			
	Aspen				/		∕	Long Long Long Long Long Long Long Long	So Co		
	Aspen	<del></del>	100	0 0	0	0	0	100			
	Northern	n Hardwood	0	133 0	0	0	0	133			
	Upland I	Mixed Forest	2	0 0	0	0	0	2			
		Total	103	133 0	0	0	0	236			

Compartment: 132 Crystal Falls Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2014 s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Method Name Density Objective Status Age Range Type d 13 12132013-Cut 51.7 4134 - Aspen, 60 81-110 Harvest Clearcut with 4134 - Aspen, Cmpt. Review High Spruce/Fir Density Reserves Spruce/Fir Proposal Pole Prescription Cut all tress 2 inches and larger except red and white pine, cedar, hemlock, oak, elm and cherry. Cut all spruce and balsam that is 6 inches and larger at a 4 inch stump. Specs: Other\_ Comments: <u>Next</u> Regen survey according to certification Steps: Proposed 10/01/2013 Start Date: 12132014-Cut 4134 - Aspen, 51-80 4134 - Aspen, Cmpt. Review 14 8.5 High 84 Harvest Clearcut with Spruce/Fir Density Log Reserves Spruce/Fir Proposal Prescription Cut all trees 2 inches and larger except red and white pine, hemlock, cedar, oak and cherry. Cut all spruce and balsam that is greater than 6 inches in diameter at a 4 inch stump. Specs: Other\_ Comments: Regen Survey according to certification <u>Next</u> Steps: Proposed Start Date: 10/01/2013 12132021-Cut 51-80 21 40.2 4134 - Aspen, High 83 Harvest Clearcut with 4134 - Aspen, Cmpt. Review Spruce/Fir Density Reserves Spruce/Fir Proposal Pole Prescription Cut all trees 2 inches and smaller except red and white pine, hemlock, cedar, oak and elm and cherry. Cut all spruce and balsam that is 6 inches Specs: or greater at a 4 inch stump. <u>Other</u> Comments: <u>Next</u> Regen survey according to certification. Steps: Proposed 10/01/2013 Start Date: 29 12132029-Cut 133.0 4119 - Mixed High 85 111-140 Harvest Single Tree 4110 - Sugar Maple Cmpt. Review Northern Hardwoods Density Log Selection Association Proposal Prescription Mark trees to a BA of 80 leaving the best tree in place. Do not cut red and white pine, cedar, hemlock, oak and elm. Thin around crop trees according to the compleat marker. Make canopy gaps in stand. Specs: <u>Other</u> Comments: Regen survey according to certification <u>Next</u> Steps: Proposed 10/01/2013 Start Date:

Total Treatment Acreage Proposed: 233.5

S t		Crystal Falls	Mgt. Unit	Table 4	Tre a L	Compartment: 132 Year of Entry 2014	DR NATUREL PRODUCTION			
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presc Specs	ription <u>s:</u>									
<u>Other</u> Comn										
<u>Next</u> Steps	<u>.</u>									
<u>Propos</u> <u>Start D</u>										
	ng Factor and N ment Reason	0								
Ac	Total Treatme creage Propose	· .								

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

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 devastation. Create canopy gaps for regeneration

Other Comments:

001111101

 Next
 Regen check according to certification

 Steps:
 Proposed

<u>Start Date:</u> 10/01/2013

Total Treatment Acreage Proposed: 31.4

S t	Crystal Falls Mgt. Unit			5 – Fo	prested Stands	Compartment: 132 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Log	40.6	85	81-110	
2	6121 - Tamarack	High Density Pole	13.5	92	51-80	
4	6120 - Lowland Cedar	High Density Pole	12.2	84	81-110	
6	6122 - Black Spruce	High Density Pole	14.6	92	81-110	
7	42340 - Upland Spruce/Fir	High Density Pole	14.4	92	81-110	
8	4134 - Aspen, Spruce/Fir	High Density Sapling	14.1	10	1-50	
9	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.3	97	51-80	
10	6124 - Lowland Spruce- Fir	High Density Pole	10.8	84	51-80	
12	4130 - Aspen	High Density Sapling	14.9	10		
13	4134 - Aspen, Spruce/Fir	High Density Pole	51.7	60	81-110	
14	4134 - Aspen, Spruce/Fir	High Density Log	8.5	84	51-80	
15	4112 - Maple, Beech, Cherry Association	High Density Log	57.0	85	81-110	
17	4134 - Aspen, Spruce/Fir	High Density Pole	31.6	60	111-140	
18	42340 - Upland Spruce/Fir	High Density Pole	13.3	77	51-80	
19	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.7	84	81-110	_
21	4134 - Aspen, Spruce/Fir	High Density Pole	40.2	83	51-80	
22	6120 - Lowland Cedar	High Density Pole	21.3	85	81-110	
25	4319 - Mixed Upland Forest	High Density Log	2.3	80	111-140	

S t	Crystal Falls	Mgt. Unit		5 – Fo	prested Stands	Compartment: 132 Year of Entry: 2014	DIRE MATURE AND DIRECT
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
26	6124 - Lowland Spruce- Fir	High Density Pole	3.4	84	81-110		
27	6120 - Lowland Cedar	High Density Pole	14.4	84	51-80		
28	42340 - Upland Spruce/Fir	Low Density Pole	22.2	31			
29	4119 - Mixed Northern Hardwoods	High Density Log	133.0	85	111-140		
30	42350 - Upland Hemlock	High Density Log	5.6	84	81-110		
31	42350 - Upland Hemlock	High Density Log	3.9	84	81-110		
32	4134 - Aspen, Spruce/Fir	High Density Sapling	32.2	31			
33	42200 - Natural White Pine	High Density Log	4.7	100	81-110		
34	4319 - Mixed Upland Forest	High Density Sapling	20.0	10			
36	4119 - Mixed Northern Hardwoods	High Density Pole	1.3	84	81-110		

Crystal Falls Mgt. Unit

#### 6 – Nonforested Stands

Compartment: 132 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	MICHIGAN
3	629 - Mixed non-forested wetland	10.8	No	Unspecified		
5	6229 - Mixed lowland shrub	42.0	No	Unspecified		
11	6224 - Treed Bog	4.1	No	Unspecified		
16	6224 - Treed Bog	2.1	No	Unspecified		
20	3205 - Mixed Upland Shrub	4.9	Yes	Aspen		
23	6229 - Mixed lowland shrub	1.2	No	Unspecified		
24	6229 - Mixed lowland shrub	2.1	N\A	Unspecified		
35	6224 - Treed Bog	28.7	No	Unspecified		



### 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



## 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 Area	и Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Habitat Area	An area that provide some specific need for the life cycle of will and Waterfowl Production Areas, deer wintering complexes in l openings and savannas. Habitat areas are distinct from critical endangered or threatened species (such as Kirtland's warbler of general in nature, are not primarily associated with threatened covered by species recovery plans that are developed in cooper	lowland conifer communities, grassland habitat designated for recovery of or piping plover areas) in that they are more or endangered species, and are not