

Revision Date: June 15, 2010

Stand Examiner: Linda Lindberg

Legal Description: T44N, R31W Sections 4, 5, 6, 7, 8, 9 and 10

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Text

Management Goals: : The management goals in this compartment include sustaining and renewing wetlands especially along creeks and the Fence River, working toward greater age class diversity in the aspen stands and moving the hardwood stands toward regulation. Maintain a good relationship with adjacent landowners to continue harvesting opportunities for the future. There must also be a focus on renewing the streams to a conifer buffer to avoid beaver infestation which is present.

Soil and Topography: Mildly rolling terrain but very spread out. There is everything from Wabeno silt loams and Pence fine sandy loams along the Fence River to Lupton– Cathro soil in the lower areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The State has broken ownership in this area but they are valuable, diverse parcels. Most of the surrounding land is owned by industry with a few camp owners also present.

Unique, Natural Features: McMillan and Margeson creeks are in this compartment and the Fence River makes the east boundary of the compartment.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: Returning McMillan and Margeson creeks to their original makeup by removing beaver dams and other setbacks.

Wildlife Habitat Considerations: Compartment 193 is in the Deerfoot Lodge deeryard, north of the Michigamme Reservoir. This area has been altered significantly in the last 30 years. Mead Paper converted large tracts of aspen/northern hardwoods to red pine or larch. International Paper, State of Michigan and private landowners have also harvested significant amounts of timber. A high priority for wildlife is the maintenance and restoration of travel corridors. Aspen old enough or large enough to benefit cavity nesters and raptors have been greatly reduced. Any existing aspen should be held if possible. If harvest takes place, care should be taken to protect the drainages, travel corridors and transition zones.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation, Randville Dolomite and Archean granite/gneiss subcrop below the glacial drift. The Randville is quarried for marble/stone nine miles to the south. The Michigan discovery of kimberlite was near Lake Ellen, approximately four miles to the south. The Porter and Warner abandoned iron mines are located eleven miles to the west. This compartment was previously leased for metallic exploration. The nearest gravel pit is located five miles to the southwest. There is no economic oil and gas production in the UP.

Vehicle Access: There is a fairly good road system with maintenance to access the State land but not much in the way of roads on the state land.

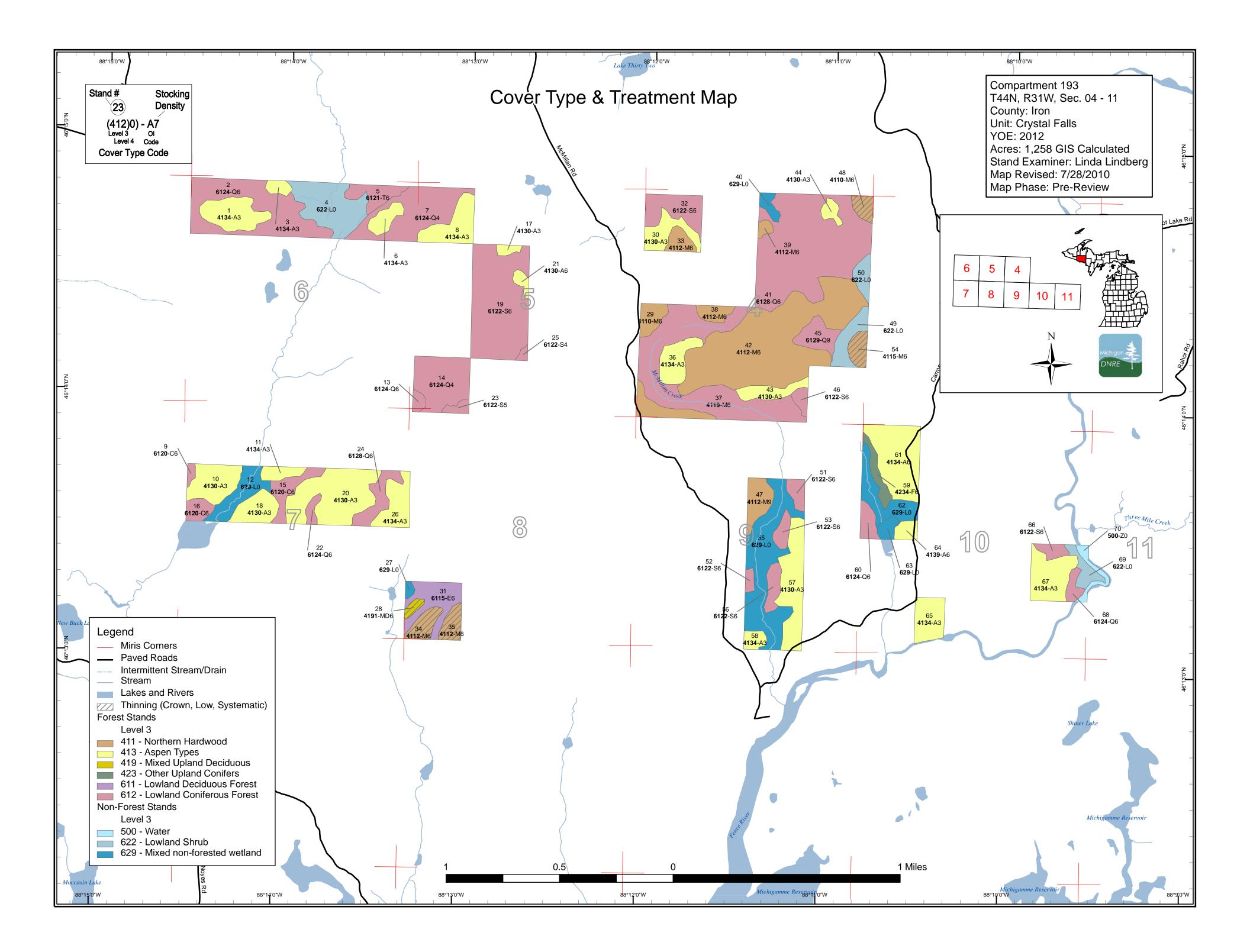
Survey Needs: Some corners will be needed to continue harvest operations in this fiscal year.

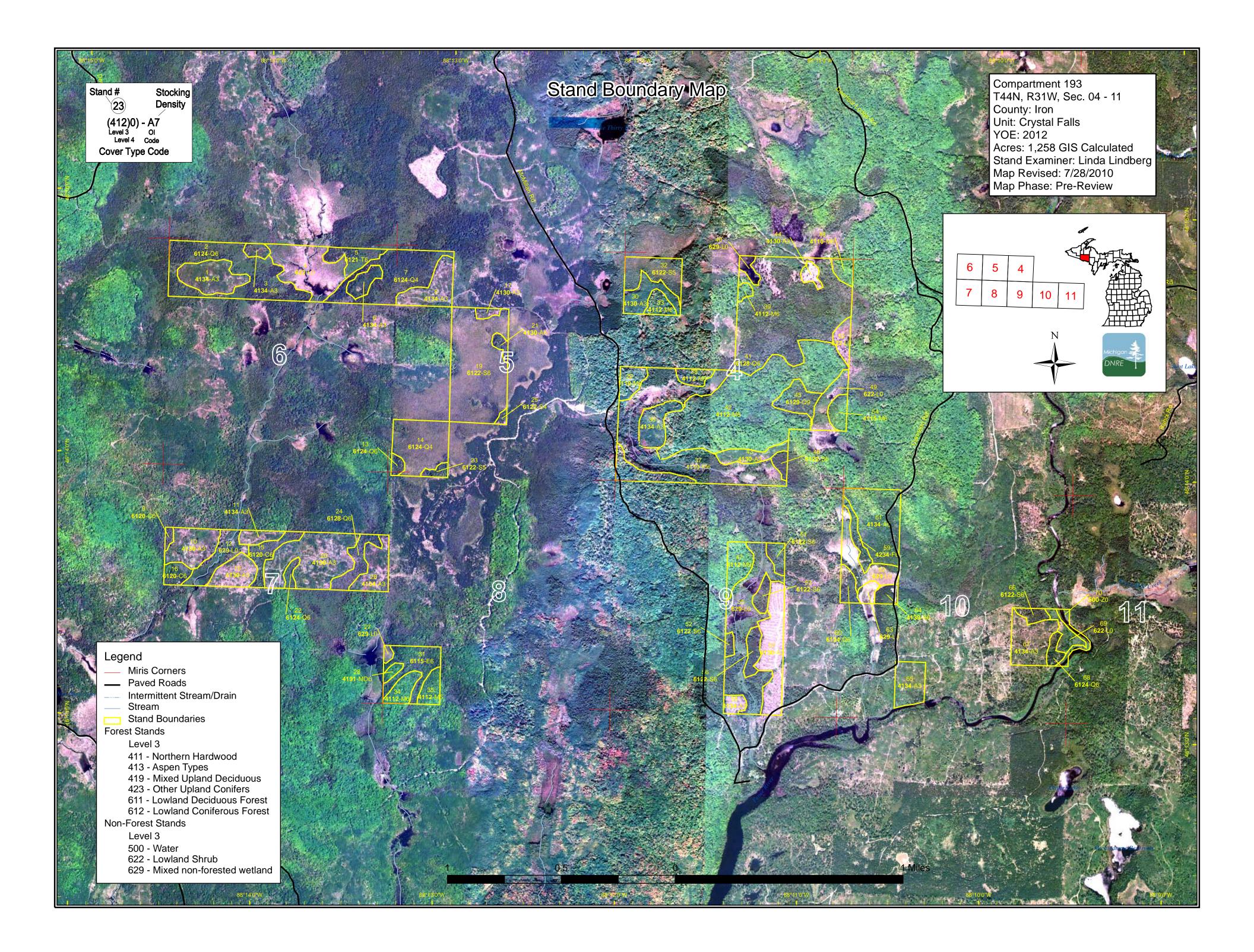
Recreational Facilities and Opportunities: Barring access problems, there is a great potential for hunting, fishing, hiking and several other recreational opportunities.

Fire Protection: Crystal Falls Protection Area

Additional Compartment Information: None

- > 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





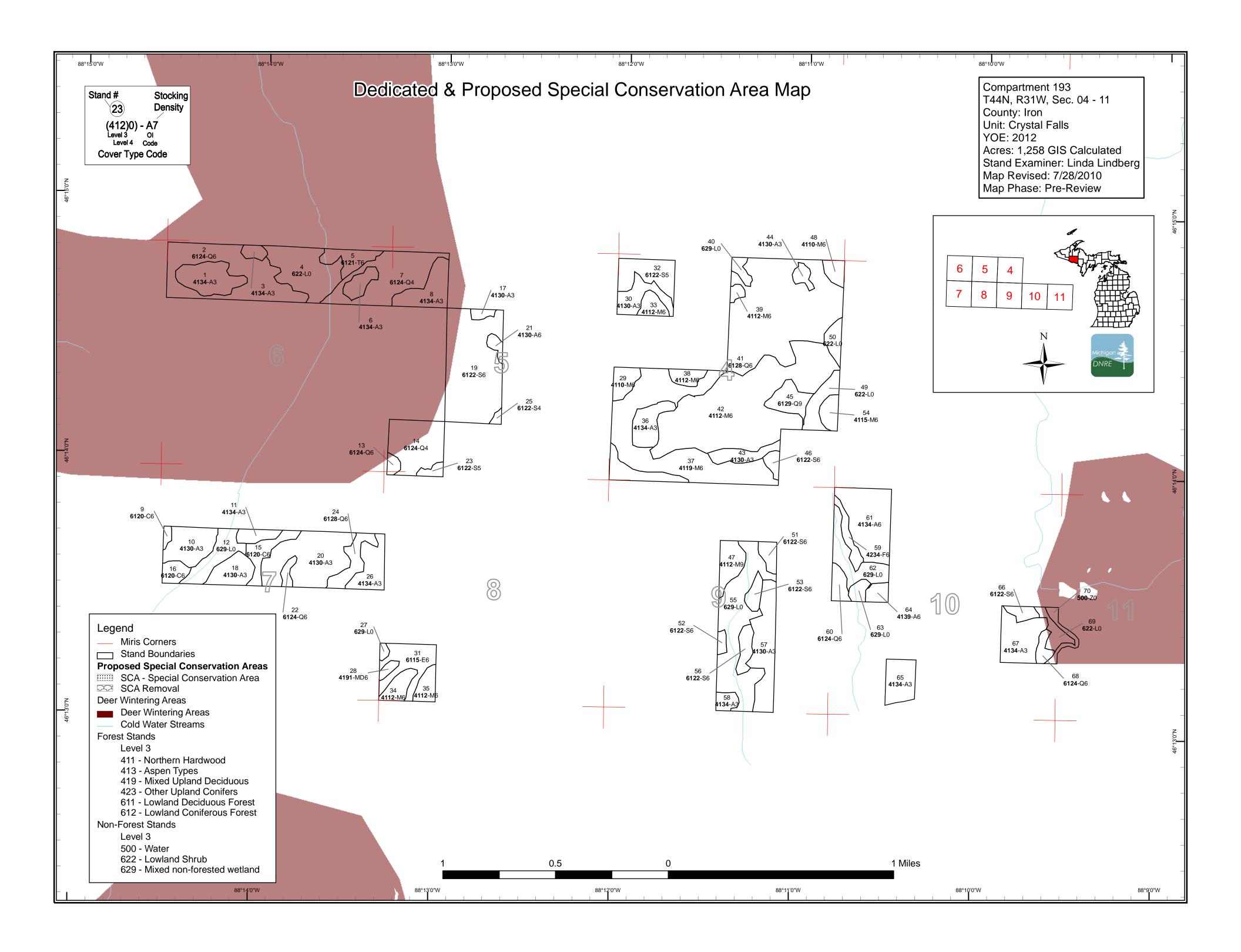


Table 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit

Compartment 193 Year of Entry 2012



							Age	Class									
	Nor	Dessee	o,	10 ^{,7} 9	62- 2-2-	0.00 0.00	09. 10	05:30	69 ^{.08}	121	66.00	66.00	001.00 101.00	011.01	*0čz	400 A	ite in the second secon
Aspen	0	40	198	38	0	39	0	0	5	0	3	0	0	0	0	324	
Cedar	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20	
Lowland Conifers	0	0	0	0	0	0	0	0	0	359	13	0	0	0	0	372	
Lowland Deciduous	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20	
Lowland Shrub	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	13	110	4	0	0	0	0	127	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	
Northern Hardwood	0	0	0	0	0	0	0	7	70	131	0	0	0	0	0	208	
Tamarack	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12	
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Total	166	40	198	38	0	39	0	7	92	658	20	0	0	0	0	1258	



Crystal Falls Mgt. Unit Year of Entry 2012									Compartment Total Compartment Acres:	
		Α	cres by	Treatm	ent Ty	/pe				
Commercial Harvest - 31	Site Prep - 0		Tree F	Planting	- 0		Presc	cribed Burn - 0	Other - 0	
Habitat Cut - 0	Opening Maintenand	ce - 0	Tree S	Seeding	- 0		Pestic	cide - 0		
		Cee	Cover Ty	Loop is			1	Polis States		
Mixed L	Ipland Deciduous	0 0	0 0	0	3	0	3			
Norther	n Hardwood	0 (0 0	0	29	0	29			
	Total	0 () 0	0	31	0	31			

Crystal Falls Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 193 Year of Entry 2012

n Treatment Acros Stage1 Stage1 Density Weithor Stage1 Yope Treatment Type Treatment Method Cover Type Upland Deciduous Adjustication 28 12193028-Cut 2.5 4191 - Mixed Upland Deciduous High Density Pole 7.5 Harvest Crown Thimning Mixed Upland Deciduous with Deciduous with Confer Mixed Upland Deciduous with Confer Crown Thimning Mixed Upland Deciduous with Deciduous with Confer Mixed Upland Deciduous with Confer Crown Thimning Maple, Decch, Chery Association Maple High Density Pole 7.5 Harvest Crown Thimning Cherry Association Maple, Decch, Chery Association Prescription. Thin stand from 70-90 Basal Area leaving diversity and best tree in place. Thin around crop trees according to specs and consider wit Specs; 35 12193034-Cut 7.6 4112 - Maple, Beech, Cherry Association High Density Pole 7.5 Harvest Crown Thinning Cherry Association Maple, Beech, Cherry Association 35 12193034-Cut 7.6 4112 - Maple, Beech, Cherry Association High Density Pole 7.6 Harvest Crown Thinning Cherry Association Maple, Beech, Cherry Association Stepa: 1193034-Cut 5.7 4110 -		Year of Entry 2012	ibeu	iting Factor		S t				
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Comments:	dlife trees	ling to specs. Consider w	ound crop trees accord	n place. Thin ar	est tree i	aving diversity and be				
<u>Vext</u> Steps:										<u>Vext</u> Steps:

31.2 Acreage Proposed:

S t		Crystal F	alls Mgt. Unit	Table 4		ents Prescrib ng Factor	Compartment: 193 Year of Entry 2012		
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spece	<u>eription</u> <u>s:</u>								
<u>Other</u> Comr									
<u>Next</u> Steps	<u>:</u>								
	ng Factor and N ment Reason	0							
Ac	Total Treatmer creage Propose		0						

S t	Crystal Falls	s Mgt. Unit			prested Stands	- Zanatan
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Sapling	21.1	14		
2	6124 - Lowland Spruce- Fir	High Density Pole	54.4	85		
3	4134 - Aspen, Spruce/Fir	High Density Sapling	3.9	14		
5	6121 - Tamarack	High Density Pole	11.6	85		
6	4134 - Aspen, Spruce/Fir	High Density Sapling	7.7	17		
7	6124 - Lowland Spruce- Fir	Low Density Pole	41.3	85	51-80	
8	4134 - Aspen, Spruce/Fir	High Density Sapling	19.3	14		
9	6120 - Lowland Cedar	High Density Pole	1.9	85		
10	4130 - Aspen	High Density Sapling	20.5	17		
11	4134 - Aspen, Spruce/Fir	High Density Sapling	6.4	17		
13	6124 - Lowland Spruce- Fir	High Density Pole	2.9	85		
14	6124 - Lowland Spruce- Fir	Low Density Pole	32.7	86	81-110	this does go to less volume as you go farther into the stand
15	6120 - Lowland Cedar	High Density Pole	11.6	85		
16	6120 - Lowland Cedar	High Density Pole	6.5	86		
17	4130 - Aspen	High Density Sapling	2.7	17		
18	4130 - Aspen	High Density Sapling	14.1	17		
19	6122 - Black Spruce	High Density Pole	73.4	85		
20	4130 - Aspen	High Density Sapling	47.5	17		THe spots where the aspen was cut regenerated well. The spots that were clearcut into the swamp have little to no regeneration.

S t	Crystal Falls Mgt. Unit				orested Stands ry Method: IFMAP	Compartment: 193 Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	High Density Pole	3.2	90		
22	6124 - Lowland Spruce- Fir	High Density Pole	3.4	85		
23	6122 - Black Spruce	Medium Density Pole	3.2	85		
24	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.2	85		
25	6122 - Black Spruce	Low Density Pole	1.5	85		
26	4134 - Aspen, Spruce/Fir	High Density Sapling	16.6	17		
28	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.5	75	111-140	
29	4110 - Sugar Maple Association	High Density Pole	8.6	70	81-110	Aspen inclusion cut at the same time as stand 35
30	4130 - Aspen	High Density Sapling	13.4	25		
31	6115 - Lowland Ash	High Density Pole	20.3	85	81-110	
32	6122 - Black Spruce	Medium Density Pole	19.7	85		
33	4112 - Maple, Beech, Cherry Association	High Density Pole	6.7	60		
34	4112 - Maple, Beech, Cherry Association	High Density Pole	8.4	75	111-140	
35	4112 - Maple, Beech, Cherry Association	High Density Pole	7.6	75	111-140	
36	4134 - Aspen, Spruce/Fir	High Density Sapling	14.6	22		
37	4119 - Mixed Northern Hardwoods	High Density Pole	12.2	70	81-110	One little sprig of Canada Yew in this stand
38	4112 - Maple, Beech, Cherry Association	High Density Pole	6.3	75		
39	4112 - Maple, Beech, Cherry Association	High Density Pole	2.5	70	81-110	This stand can probably be cut with stand 29 in 10 years

S t	Crystal Falls			orested Stan	1 Sharen war	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	200.6	85		
42	4112 - Maple, Beech, Cherry Association	High Density Pole	130.6	80		
43	4130 - Aspen	High Density Sapling	10.1	26		
44	4130 - Aspen	High Density Sapling	4.2	6		
45	6129 - Mixed Coniferous Lowland Forest	High Density Log	12.5	90	81-110	
46	6122 - Black Spruce	High Density Pole	3.9	90		
47	4112 - Maple, Beech, Cherry Association	High Density Log	12.3	70		
48	4110 - Sugar Maple Association	High Density Pole	5.7	70	111-140	There are rocks and this is small but can be cut with stand 31 to the south
51	6122 - Black Spruce	High Density Pole	5.6	75		
52	6122 - Black Spruce	High Density Pole	2.5	75		
53	6122 - Black Spruce	High Density Pole	5.4	76		
54	4115 - Y.Birch, Hemlock NH	High Density Pole	7.0	70	111-140	Variable cut can be cut and it is rocky to the north
56	6122 - Black Spruce	High Density Pole	7.2	80		
57	4130 - Aspen	High Density Sapling	31.5	6		
58	4134 - Aspen, Spruce/Fir	High Density Sapling	4.7	6		
59	42340 - Upland Spruce/Fir	High Density Pole	7.2	80		
60	6124 - Lowland Spruce- Fir	High Density Pole	6.6	85	51-80	
61	4134 - Aspen, Spruce/Fir	High Density Pole	38.9	40		

S t	Crystal Falls Mgt. Unit				orested Sta	Michigan 3
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4139 - Aspen, Mixed Deciduous	High Density Pole	5.1	75	81-110	
65	4134 - Aspen, Spruce/Fir	High Density Sapling	15.8	17		Everything was cut hereupland, lowland and down to the river
66	6122 - Black Spruce	High Density Pole	4.6	85		
67	4134 - Aspen, Spruce/Fir	High Density Sapling	22.9	14		Lots of conifers mixed in.
68	6124 - Lowland Spruce- Fir	High Density Pole	4.7	80		

Crystal Falls Mgt. Unit

6 – Nonforested Stands Inventory Method: IFMAP

Compartment: 193 Year of Entry: 2012



Stand	Cover Type	Acres	Gen Cmts:
4	6220 - Alder/willow	35.5	
12	629 - Mixed non-forested wetland	16.6	Lowland and creek
27	629 - Mixed non-forested wetland	1.6	This is the bog from the creek to the west of this 40 acres
40	629 - Mixed non-forested wetland	4.2	THere is a little water left but most has dried up
49	6229 - Mixed lowland shrub	12.1	
50	6229 - Mixed lowland shrub	6.8	
55	629 - Mixed non-forested wetland	53.4	McMillan Creek and floodplain
62	629 - Mixed non-forested wetland	18.9	there is a creek and a culvert and road across this creek and wetland
63	629 - Mixed non-forested wetland	4.3	Most water has dried up
69	6229 - Mixed lowland shrub	7.3	Buffer along Fence River
70	50 - Water	5.4	The Fence River



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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area					
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 Are 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 m 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.						