

Revision Date: 05/04/12

Stand Examiner: Ed Rice

Legal Description: T46N R 31W Section 6

RMU (if applicable):

Management Goals: Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue the hardwood stands on 20 year alternating cutting cycles, moving the stands toward regulation. Protect the riparian areas and transition zones during management activity.

Soil and Topography: Soils are generally silt loams with areas of muck soils adjacent to the river bottom. The topography ranges from short, fairly steep slopes to flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: With the small size of this compartment, it is contiguous in state ownership. Large blocks of private industrial forest (CFA) ownership border the compartment. There are also several smaller parcels of private non industrial land immediately adjacent. Active forest management has occurred and will continue within and surrounding the compartment. Deer hunting dominates the recreational use patterns.

Unique, Natural Features: None identified

Archeological, Historical, and Cultural Features: None identified

Special Management Designations or Considerations: None identified

Watershed and Fisheries Considerations: The East Branch of the Fence River runs through the compartment. Management keeping aspen not readily accessible by beavers is desirable. This will generally involve 300 foot aspen buffers where appropriate.

Wildlife Habitat Considerations: : Deer numbers are low in the area and they do not overwinter. Due to the virtually pure northern hardwood stands in the compartment, upland conifers, namely hemlock should be encouraged. The small lowland conifer stands should be maintained and enhanced to continue providing good winter cover and travel corridors for various wildlife species. Cherry does exceptionally well and provides excellent soft mast for species, such as bears.

Mineral Resource and Development Concerns and/or Restrictions:

Vehicle Access: Fair overall. There is a single two season road across the compartment. The remaining roads are winter logging roads only. Access into the Northwest end of the compartment is fair to poor due to unimproved roads. Access is non existent during spring breakup and winter.

Survey Needs: A corner is needed along the north line adjacent to private lands.

Recreational Facilities and Opportunities: None

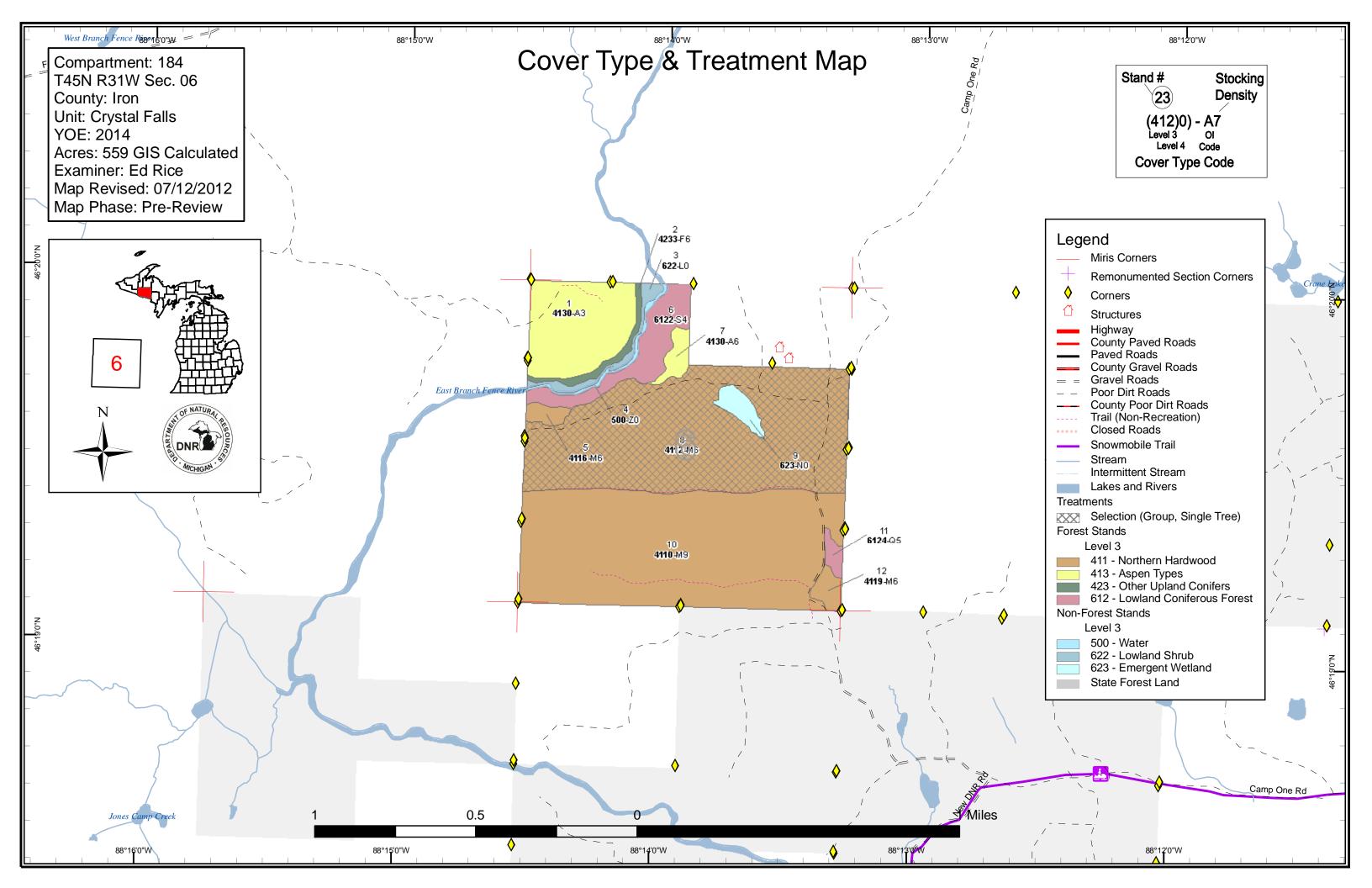
Fire Protection: Much of the compartment is composed of northern hardwood timber type. Occurrences of fire starts are for the most part negligible. There is a small forest type of lowland conifers (black spruce) with heightened fire potential. Access for fire suppression in the more fire prone forest types is fair to good. There are multiple private camps immediately adjacent to the compartment.

Additional Compartment Information:

- > 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



Compartment: 184 T45N R31W Sec. 06 County: Iron Unit: Crystal Falls YOE: 2014 Acres: 559 GIS Calculated Examiner: Ed Rice Map Revised: 07/12/2012 Map Phase: Pre-Review

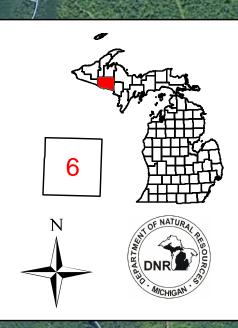
Stand Boundary Map

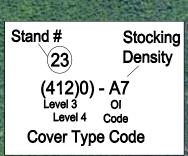
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Legend

LUGU	
	Miris Corners
+	Remonumented Section Corners
\diamond	Corners
	Structures
_	Highway
	County Paved Roads
	Paved Roads
	County Gravel Roads
= =	Gravel Roads
	Poor Dirt Roads County Poor Dirt Roads
	Trail (Non-Recreation)
	Closed Roads
	Stream
	Intermittent Stream
	Snowmobile Trail
	Stand Boundaries
Forest	Stands
L	_evel 3
	411 - Northern Hardwood
	413 - Aspen Types
	423 - Other Upland Conifers
	612 - Lowland Coniferous Forest
Non-F	orest Stands
L	_evel 3
	500 - Water
	622 - Lowland Shrub
	623 - Emergent Wetland

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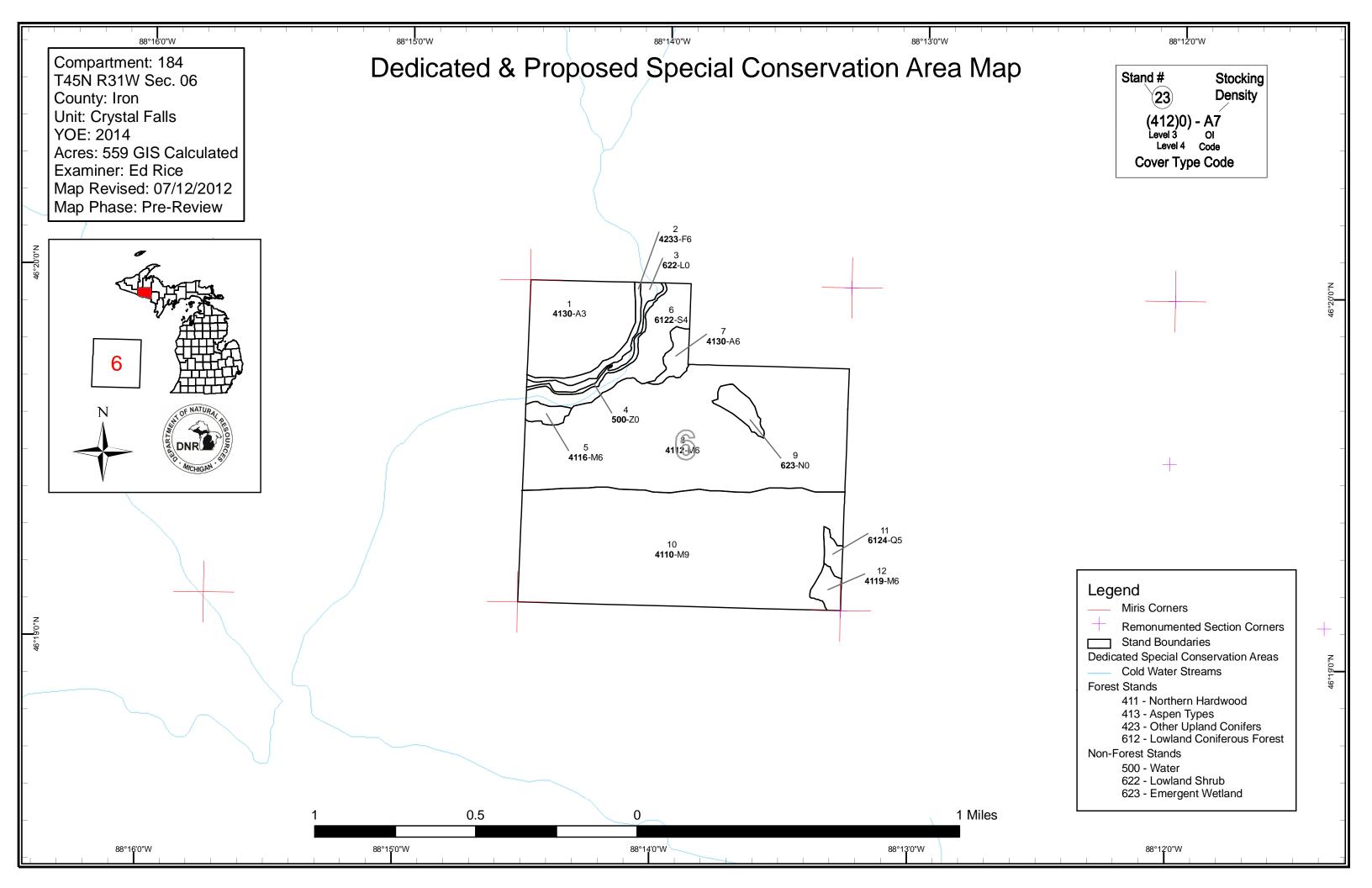
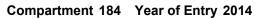


Table 1 – Total Acres by Cover Type and Age Class

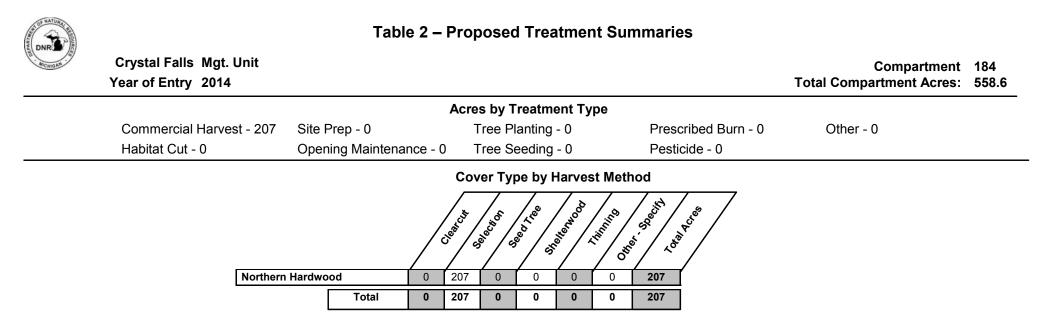
Crystal Falls Mgt. Unit

Ed Rice : Examiner





Age Class																
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Aspen	0	56	0	0	7	0	0	0	0	0	0	0	0	0	63	
Lowland Conifers	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4	Ī
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Lowland Spruce/Fir	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	1
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	l
Northern Hardwood	0	0	0	0	0	0	6	433	0	0	0	0	0	0	439	1
Upland Spruce/Fir	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6	I
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	Ι
Total	18	56	0	0	17	0	35	433	0	0	0	0	0	0	559	1



Crystal Falls Mgt. Unit

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 184 Year of Entry 2014

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	12184008-Cut	207.4	4112 - Maple, Beech, Cherry Association	High Density Pole	75	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription thin to 80 - 90 BA, release advanced maple regen. leave all conifers and oak if found. during thinning, skip over lower BA areas withing the cut. Specs: evaluate areas of elderberry closely before opening canopy furthur. MO is mixed hardwood.

 Other
 scattered pockets of fully stocked b cherry sapls 2 - 6' tall but with blacknot prevalent. fair to good form on H maple - clear boles to 20 - 30', sawt

 Comments:
 1 1/2 - 2 log heights. elderberry present in areas of more open canopy. North of north road heavier to 2 - 3" saplings, lower in quality as stand transitions north to adjacent F6A7. Areas of good H maple regen 6 - 8' tall mixed with ironwood saplings. Scattered areas appearing to be lower ground, likely flooded during spring run off. great H maple regen E of Camp 1 Rd. 5 - 8' tall with scattered fir.

<u>Next</u> Steps:

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<u>oteps.</u>

Proposed Start Date: 10/01/2013

> Total Treatment Acreage Proposed: 207.4

S t		Crystal Falls	Mgt. Unit	Table 4		atments imiting	s Prescribed Factor	Compartment: 184 Year of Entry 2014	OF NATURAL THOURSES	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							
Presc Spece	ription <u>3:</u>									
<u>Other</u> Comr										
<u>Next</u> <u>Steps</u>	-									
<u>Propos</u> Start D										
	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:

<u>....</u>

 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 Sta	Ands Compartment: 184 Year of Entry: 2014	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4130 - Aspen	High Density Sapling	56.0	15		Aspen sapls 2 - 3" dbh, very widely scattered large w pine. small pockets of scattered tag alder	
2	42330 - Upland Fir	High Density Pole	6.3	45		30 - 50' buffer to Fence River	
5	4116 - Mixed N. Hardwood - Aspen	High Density Pole	4.7	75		thick fir understory. H maple saplings. High graded in 1969, diameter limit cut	
6	6122 - Black Spruce	Low Density Pole	28.7	61		lowland conifer along Fence River. many interspersed alder openings, very low cords/acre (6 cd/ac)	
7	4130 - Aspen	High Density Pole	6.6	42		aspen 4 - 8" dbh. thick hazel understory, scattered windthrow	
8	4112 - Maple, Beech, Cherry Association	High Density Pole	207.4	75	111-140	scattered pockets of fully stocked b cherry sapls 2 - 6' tall but with blacknot prevalent. fair to good form on H maple - clear boles to 20 -30', sawt 1 1/2 - 2 log heights. elderberry present in areas of more open canopy. North of north road heavier to 2 - 3" saplings, lower in quality as stand transitions north to adjacent F6A7. Areas of good H maple regen 6 - 8' tall mixed with ironwood saplings. Scattered areas appearing to be lower ground, likely flooded during spring run off. great H maple regen E of Camp 1 Rd. 5 - 8' tall with scattered fir.	
10	4110 - Sugar Maple Association	High Density Log	221.1	75	81-110	H maple sawt 12 -18" dbh. fair - good form, clear to 1 1/2 - 2 logs. scattered H maple sapls 1 - 3' tall. SW corner of stand holds small lower ground area with scattered upland cedar, likley flooded out during spring run off. pockets of elderberry along W and N ends. areas of lower stocking have raspberry/B cherry sapls.	
11	6124 - Lowland Spruce- Fir	Medium Density Pole	3.8	40		small acreage lowland conifer swamp	
12	4119 - Mixed Northern Hardwoods	High Density Pole	5.8	65	81-110	Prevalent to 5 - 6" dbh poles. poor R maple advanced sapl growth better quality. associated overmature aspen. fir falling out of stand. S end of stand slightly more higher ground - R maple, aspen, fir	

Compartment: 184 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	6220 - Alder/willow	7.1	No	Unspecified	tag alder, willow, swamp grass along Fence River
4	50 - Water	3.9	No	Unspecified	
9	6233 - Wet Meadow	7.1	No	Unspecified	swamp grass meadow ringed with cedar, fir and spruce. flooded out in spring



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 co stocked trout populations and those of other coldwater fish sp year to year. Coldwater streams in Michigan typically provide contributions of groundwater to their stream flows. Such stread designated as trout resources by Fisheries Order 210.	becies (e.g., slimy sculpin) to persist from these conditions due to substantial