

Crystal Falls Forest Management Unit Compartment Review Presentation Compartment #158 Entry Year: 2013

Compartment Acreage: 1630 County: Iron

Revision Date: 6/3/11

Stand Examiner: Scott Sebero

Legal Description: T42N, R32W, Sec. 4, 5, 8, 9

T43N, R32W, Sec. 29, 32

RMU (if applicable):

Management Goals: Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and Topography: Land is nearly level to hilly with a mix of Sarona soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines and end moraines and Cathro soils that are irregular depressions within these moraines that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in this compartment consist mostly of State lands with some small private parcels and hunting camps. Some undivided interest parcels in sections 29 and 32 of T43N, R32W. Compartment borders south side of the City of Crystal Falls. Lands in and around the remainder of the compartment are used mainly for hunting and managed for forest products.

Unique, Natural Features: Railroad Lake and Dunn Creek are in the NW part of the compartment. The Paint River borders stands 1 and 2 of the compartment.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This compartment is bisected by the recreation trail and includes Railroad Lake. It's close proximity to Crystal Falls and easy access make it a popular recreation destination for many hunters and fisherman as well as non-consumptive user groups. Good age class distribution in the aspen and conifer stands is important to continue to provide optimal wildlife habitat. The mast produced by the oak, in this compartment, attracts numerous wildlife species including deer, bear, grouse, and turkey.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Dunn Creek Formation, Badwater Greenstone and Michigamee Formation subcrop below the glacial drift. There is not a current economic use for these rocks. The abandoned Crystal Falls iron mines are located one mile to the north and west. This area was previously leased for metallic exploration and potential may still exist. The nearest gravel pit is one mile to the west. There should be some gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access: Access for the compartment is from US-2 and associated trail roads. The Iron County Recreational Trail runs through the center of the compartment.

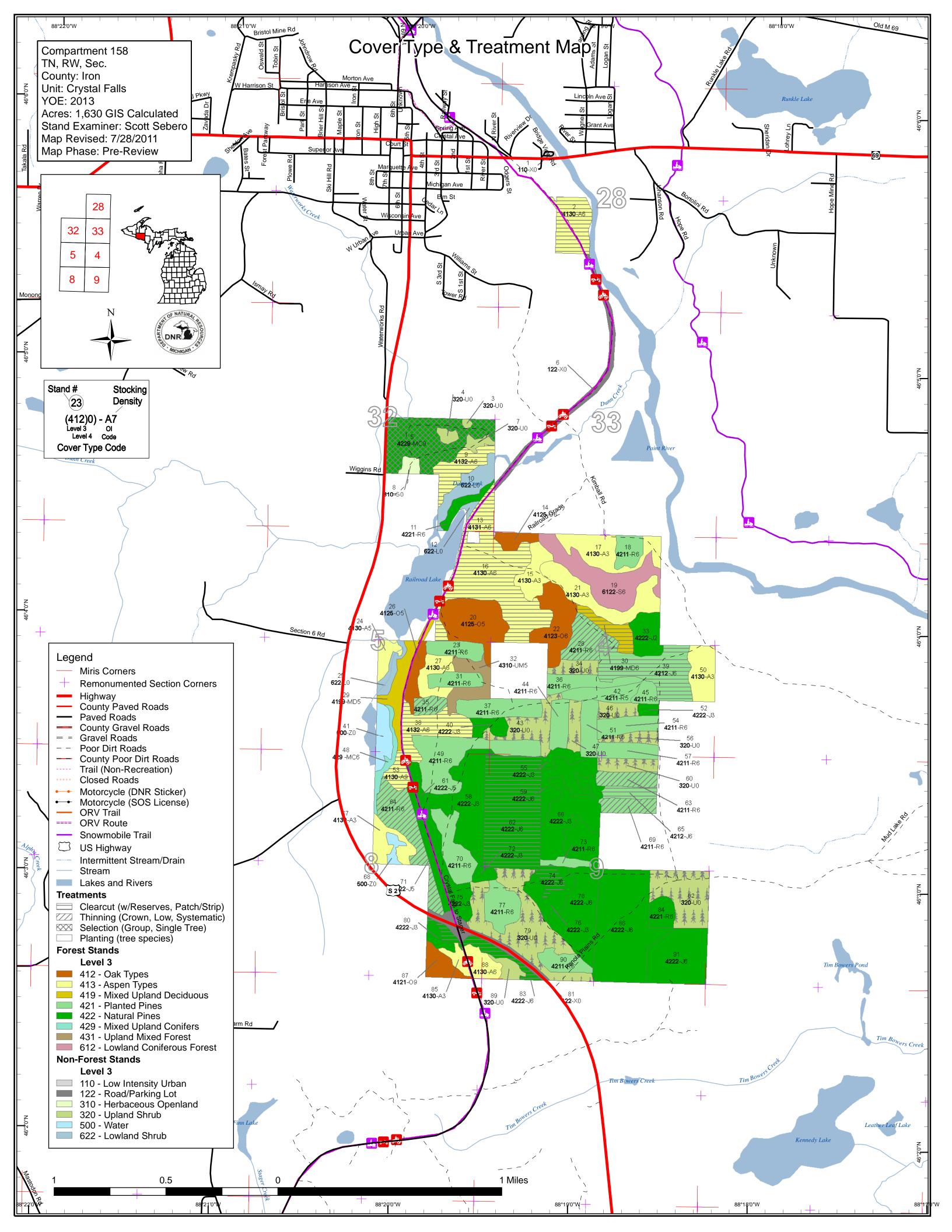
Survey Needs: None.

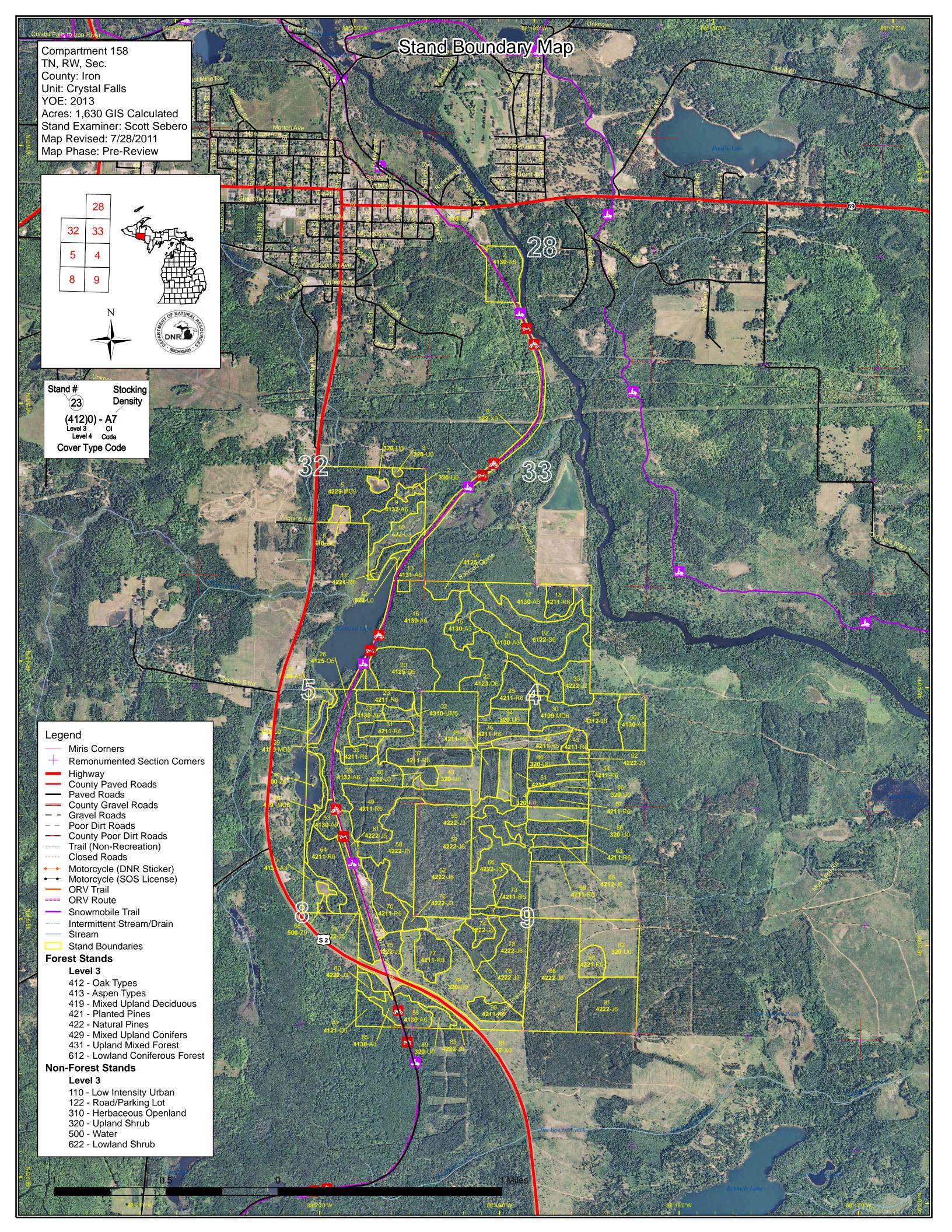
Recreational Facilities and Opportunities: Iron County Recreational Trail and Railroad Lake.

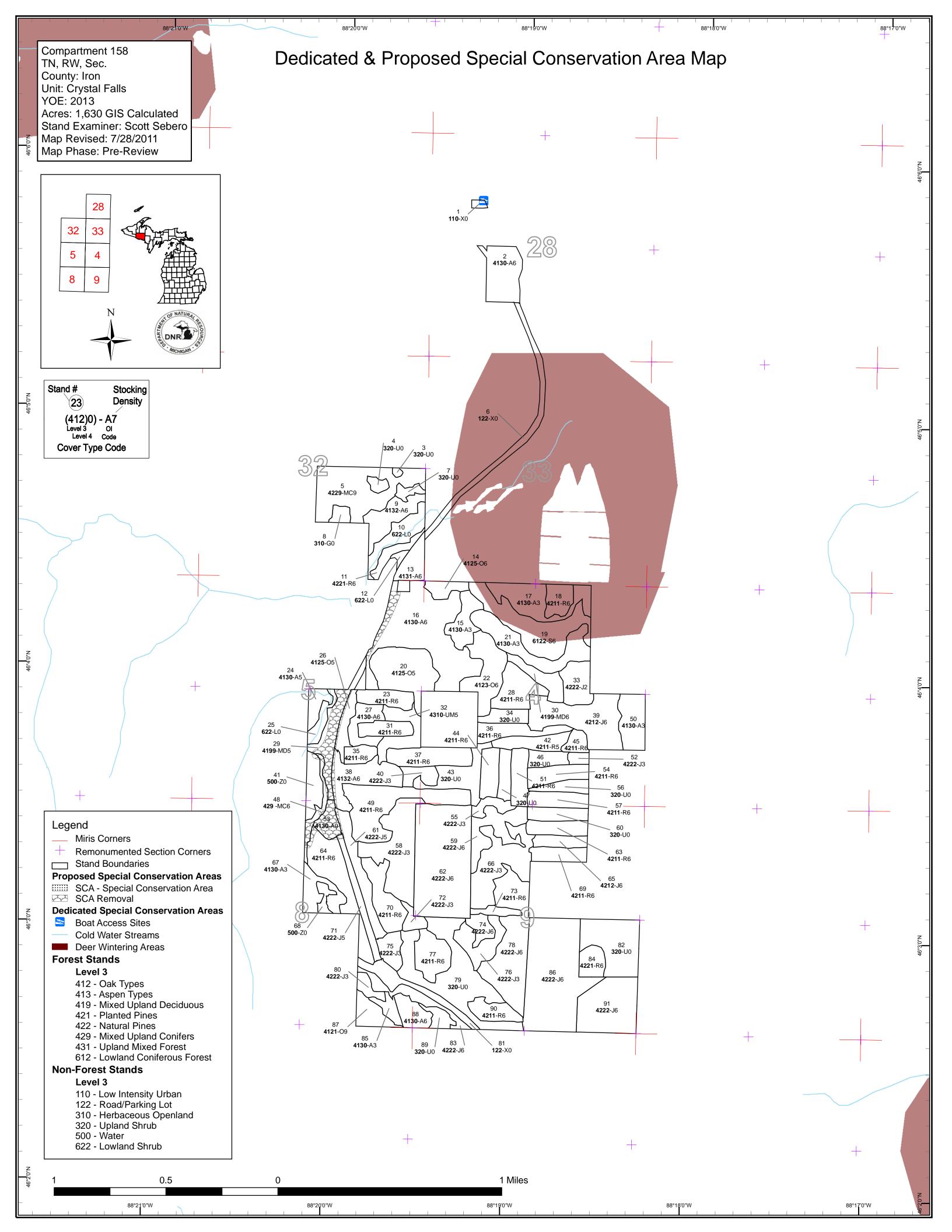
Fire Protection:

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







Compartment 158 Year of Entry 2013

Crystal Falls Mgt. Unit Scott Sebero : Examiner



Age Class

	Age Class																
	Hon	O Signal	9°2	0,00	St. St.		D. C.		\$5.00 / i	, r. j	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8,3	0,00	si Tig	70° 30°	R. S. L.	No.
Aspen	0	20	72	18	0	0	23	104	19	0	51	0	0	0	0	307	
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Jack Pine	0	0	154	72	0	0	281	12	0	0	0	0	0	0	0	519	
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	41	
Mixed Upland Deciduous	0	0	0	0	0	0	0	19	11	0	0	0	0	0	0	31	
Natural Mixed Pines	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	49	
Oak	0	0	0	0	0	0	9	27	35	7	11	0	0	0	0	89	
Red Pine	0	0	0	0	0	0	320	0	0	7	0	0	0	0	0	327	
Upland Conifers	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7	
Upland Mixed Forest	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15	
Upland Shrub	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165	
Urban	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Total	245	20	226	106	0	0	633	163	162	14	62	0	0	0	0	1630	



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit

Compartment 158 Year of Entry 2013 **Total Compartment Acres: 1630**

Acres by Treatment Type

Commercial Harvest - 457 Site Prep - 0 Tree Planting - 152 Prescribed Burn - 0 Other - 0

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

Cover Type by Harvest Method

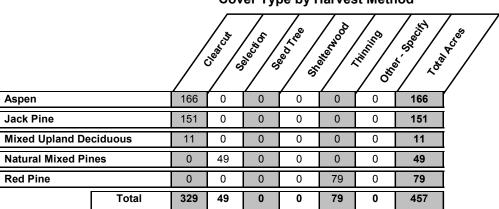


Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 158
Year of Entry 2013

DNR DNR	(S.
M/CHIGAN	18

a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	12158016-Cut	78.4	4130 - Aspen	High Density Pole	61	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Cut all aspen and mixed hardwood greater than 2" DBH. Cut all spruce, balsam and jack pine with a stump diameter of 6" or greater. No cedar,

<u>Specs:</u> hemlock, oak or red and white pine will be cut.

Other Retention will be in low area at north central part of stand.

Comments:

Next Regen survey per work construction.

Steps:

s

28 12158028-Cut 19.5 42110 - Planted High Density Pole 52 Harvest Systematic Thinning 42110 - Planted Red Cmpt. Review Red Pine Proposal

Prescription Cut every third row of red pine. Cut all jack pine and aspen with a stump diameter of 6" or greater. No white pine or oak will be cut.

Specs:

Other Retention will be the no cut species.

Comments:

Next Steps:

30 12158030-Cut 11.5 4199 - Other Mixed High Density Pole 73 Harvest Clearcut with 4199 - Other Mixed Cmpt. Review Upland Deciduous Proposal

Prescription Cut all aspen and mixed hardwood 2" and greater DBH, except red oak.. Cut all spruce, balsam and jack pine with a stump diameter of 6" or

Specs: greater. No red or white pine or red oak will be cut.

Other Retention will be in reserve species.

Comments:

Next Regen survey per work constructions.

Steps:

35 12158035-Cut 6.8 42110 - Planted High Density Pole 52 Harvest Systematic Thinning 42110 - Planted Red Cmpt. Review Red Pine Proposal

<u>Prescription</u> Cut every third row of red pine. Cut all jack pine and aspen with a stump diameter of 6" or more. No white pine or oak will be cut.

Specs:

Other Retention will be in no cut species.

Other Comments:

Next

Steps:

38 12158038-Cut 25.7 4132 - Aspen, Jack High Density Pole 60 Harvest Clearcut with 4132 - Aspen, Jack Cmpt. Review Pine Proposal

Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all jack pine with a stump diameter of 6" or more. No oak or red and white pine will be

Specs: cut

Other Retention will be in reserve species.

Comments:

Next Regen survey per work constructions.

Steps:

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 158 Year of Entry 2013

Pine

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a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	12158039-Cut	42.8	42120 - Planted Jack Pine	High Density Pole	53	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all jack pine, balsam and spruce with a stump diameter of 6" or more. No red or white pine or oak will be cut. Specs:

Other . Retention will be in reserve species.

Comments:

S

Next Scarification of site after harvest. Regen survey per work constructions. Trench and hand plant jack pine seedlings if natural regen isn't

Steps: acceptable. Release as necessary determined by TMS.

4130 - Aspen 53 12158053-Cut 8.0 4130 - Aspen High Density Log 90 Harvest Clearcut with Cmpt. Review Reserves Proposal

Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all spruce, balsam and jack pine with a stump diameter of 6" or more. No oak or red Specs: and white pine will be cut.

Other_ Comments:

Retention will be in the small low area and reserve species.

Next

Regen survey per work constructions.

Steps:

12158062-Cut 81.0 42220 - Natural 42220 - Natural Jack High Density Pole Harvest Clearcut with Cmpt. Review Jack Pine Reserves Pine Proposal

Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all Jack pine, spruce and balsam with a stump diameter of 6" or more. No oak or red Specs:

and white pine will be cut.

Other_ Retention will be in reserve species.

Comments:

Scarification of site after harvest. Regen survey per work constructions. Trench and hand plant jack pine seedlings if natural regen isn't

<u>Next</u> acceptable. Release as necessary determined by TMS. Steps:

12158063-Cut 11.4 42110 - Planted High Density Pole Harvest Systematic Thinning 42110 - Planted Red Cmpt. Review

Red Pine

Prescription Reduce red pine BA to 100. Cut all jack pine and aspen with a stump diameter of 6" or more. No oak or white pine will be cut.

Specs:

Other_ Comments:

Next Steps:

> 12158064-Cut 31.4 42110 - Planted High Density Pole 52 Harvest Systematic Thinning 42110 - Planted Red Cmpt. Review Red Pine Proposal

Prescription Reduce red pine BA to 100. Cut all jack pine and aspen with a stump diameter of 6" or more. No oak or white pine will be cut. Specs:

Other Comments:

Next

Steps:

Proposal

s t		Crysta	l Falls Mgt. Unit			eatments Pre Limiting Fac		Compartment: 158 Year of Entry 2013	DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	12158065-Cut	8.2	42120 - Planted Jack Pine	High Density Pole	53	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso	•		d mixed hardwood 2" e will be cut.	or greater DBH. Cu	ıt all jack	pine, red pine,	balsam and spruce with	a stump diameter of 6"	or more. No
Othe Com	r_ Retention Ret	n will be	in reserve species.						
Next Step			I plant red pine seedlessary determined by		egenerat	ion levels within	2 years of TCR date. R	egen survey per work co	onstructions.
69	12158069-Cut	10.2	42110 - Planted Red Pine	High Density Pole	52	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Prese Spec		red pine	BA to 100. Cut all ja	ick pine and aspen v	vith a stu	ımp diameter of	6" or more. No oak or v	white pine will be cut.	
Othe Com	<u>r</u> Retention ments:	on will be	in no cut species.						
Next Step									
74	12158074-Cut	7.1	42220 - Natural Jack Pine	High Density Pole	53	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
Preso			d mixed hardwood 2" ill be cut.	or greater DBH. Cu	ıt all jack	pine, balsam a	nd spruce with a stump	diameter of 6" or more.	No oak or red
Othe Com	<u>r</u> Retention ments:	n will be	in reserve species.						
Next Step			ite after harvest. Reç ease as necessary de		construc	ctions. Trench a	and hand plant jack pine	seedlings if natural rege	en isn't
83	12158083-Cut	12.1	42220 - Natural Jack Pine	High Density Pole	60	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec			d mixed hardwood 2" e will be cut.	or greater DBH. Cu	ıt all jack	pine, red pine,	balsam and spruce with	a stump diameter of 6"	or more. No
Othe Com	<u>r</u> Retention ments:	on will be	in reserve species.						
Next Step			d plant red pine seedlessary determined by		egen leve	els within 2 year	s of the TCR date. Reg	en survey per work cons	structions.
34	NF_12158034- Plant	8.1	Non-Forested		0	Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal
Preso Spec		and hand	d pland red pine seed	lings to acceptable r	egen lev	rels. Release as	s necessary determined	by TMS.	
Othe Com	<u>r</u> ments:								
Mari	D								

<u>Next</u>

Steps:

Regen survey per work constructions.

NF_12158043- 19.7 Non-Forested 0 Tree Planting Hand Plant 42110 - Planted Red Cmpt. Review 43 Pine Proposal

<u>Prescription</u> Trench and hand plant red pine seedlings to acceptable regen levels. Release as necessary determined by TMS.

Specs:

<u>Other</u> Comments:

<u>Next</u> Regen survey per work constructions.

Steps:

Table 3 -- Treatments Prescribed Compartment: 158 Crystal Falls Mgt. Unit with No Limiting Factor Year of Entry 2013 s t а **Treatment** Acres Size Stand **Treatment Treatment** Cover Type Stage1 **Approval** n Method Name Density Objective Status CoverType d Age Type 46 NF 12158046-7.7 Non-Forested 0 Tree Planting Hand Plant 42210 - Natural Red Cmpt. Review Plant Pine Proposal Prescription Trench and hand plant red pine seedlings to acceptable regen levels. Release as necessary as determined by TMS. Specs: **Other** Comments: Regen survey per work constructions. <u>Next</u> Steps: NF_12158047-Non-Forested 0 Tree Planting Hand Plant 42110 - Planted Red Cmpt. Review 8.0 **Plant** Pine Proposal Prescription Trench and hand plant red pine seedlings to acceptable regen levels. Release as necessary as determined by TMS. Specs: <u>Other</u> Comments: Next Regen survey per work constructions. Steps: NF_12158056- 7.4 0 42110 - Planted Red Cmpt. Review 56 Non-Forested Tree Planting Hand Plant **Plant** Pine Proposal Prescription Trench and hand plant red pine seedlings to acceptable regen levels. Release as necessary determined by TMS. Specs: Other_ Comments: Regen survey per work constructions. <u>Next</u> Steps: 60 NF_12158060-10.3 Non-Forested 0 Tree Planting Hand Plant 42110 - Planted Red Cmpt. Review **Plant** Pine Proposal Prescription Trench and hand plant red pine seedligs to acceptable regeneration levels. Release as necessary as determined by TMS. Specs: Other_ Comments: <u>Next</u> Regen survey per work constructions. Steps: NF 12158079- 56.5 Non-Forested 0 Tree Planting Hand Plant 42110 - Planted Red 79 Cmpt. Review **Plant** Pine Proposal Prescription Trench and hand plant red pine seedlings to acceptable regeneration levels. Release as necessary determined by TMS. Specs: Other_

Comments:

<u>Next</u> Regen survey per work constructions. Steps:

0 82 NF_12158082-34.0 Non-Forested Tree Planting Hand Plant 42110 - Planted Red Cmpt. Review Pine **Plant** Proposal

Prescription Trench and hand plant red pine seedlings to acceptable regen levels. Release as necessary determined by TMS. Specs:

Other Comments:

Next Regen survey per work constructions.

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Steps:

Stage1

CoverType

Size

Density

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand

Age

Treatment

Type

Treatment

Method

Compartment: 158
Year of Entry 2013

Cover Type

Objective

Name Total Treatment

Treatment

S t

n

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Acreage Proposed:

505.6

Acres

Crystal Falls Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 158 a Limiting Factor s Year of Entry 2013 t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n CoverType Method Status Name **Density** Objective Type d Age 2 12158002-Cut 24.7 4130 - Aspen High Density Pole 90 Harvest Clearcut with 4130 - Aspen Cmpt. Review Proposal Reserves Prescription Cut all aspen and mixed hardwood greater than 2" DBH. Cut all spruce and balsam with a stump diameter of 6" or greater. No cedar, hemlock, oak or red and white pine will be cut. Specs: Other 100 foot buffer along Paint River. Retention will be buffer. Comment: **Next** Regen survey per work constructions. Steps: Limiting Factor and No 1H: Interest group **Treatment Reason** undivided interest. 12158005-Cut 49.3 42290 - Natural High Density Log 73 Harvest **Group Selection** 42290 - Natural Cmpt. Review Mixed Pine Mixed Pine Proposal Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all jack pine, spruce and balsam with a stump diameter of 6" or more. Red and white pine will be marked to remove trees in all size classes. Regeneration gaps will be created where large trees are removed and opportunity Specs: presents. Areas of red pine poles will have BA reduced to 100. No oak or cedar will be cut. Other Retention will be in some large diameter pine and no cut species. Comment: Scarification of site after harvest. Regen survey per work constructions. Trenching and hand planting jack pine or red pine seedlings if natural **Next** regen isn't acceptable. Release as necessary determined by TMS. Steps: Limiting Factor and No 1H: Interest group **Treatment Reason** undivided interest 12158009-Cut High Density Pole Clearcut with Cmpt. Review 18 1 4132 - Aspen, Jack Harvest 4132 - Aspen, Jack Reserves Pine Proposal Pine Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all jack pine, spruce and balsam with a stump diameter of 6" or more. No oak or red or white pine will be cut. Specs: Other 1 4 1 100 foot buffer from open water. Retention will be no cut species and the buffer. Comment: **Next** Regen survey per work constructions. Steps: 1H: Interest group Limiting Factor and No **Treatment Reason** undivided interest. 13 **12158013-Cut** 11.3 4131 - Aspen, Oak High Density Pole 73 Harvest Clearcut with 4131 - Aspen, Oak Cmpt. Review Reserves Proposal and white pine will be cut. Specs: Other 100 foot buffer on Railroad Lake. Retention will be buffer.

Prescription Cut all aspen and mixed hardwood 2" or greater DBH. Cut all balsam, spruce and jack pine with a stump diameter of 6" or more. No oak or red

Comment:

Regen survey per work constructions. <u>Next</u>

Steps:

Limiting Factor and No 1H: Interest group **Treatment Reason** undivided interest.

Total Treatment

103.3 Acreage Proposed:

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	cedar, hemlock a	and pine if p	present.			
Other Comments:								

<u>Next</u> Steps:

> Total Treatment Acreage Proposed: 6.0

S t	Crystal Falls	Mgt. Unit		5 – Fo	orested Stands	Compartment: 158 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	24.7	90	111-140	
5	42290 - Natural Mixed Pine	High Density Log	49.3	73	171-200	
9	4132 - Aspen, Jack Pine	High Density Pole	18.1	90	111-140	
11	42211 - Natural Red Pine, Mixed Deciduous	High Density Pole	6.9	81	81-110	
13	4131 - Aspen, Oak	High Density Pole	11.3	73	111-140	
14	4125 - Black, N. Pin Oak	High Density Pole	7.1	81	81-110	
15	4130 - Aspen	High Density Sapling	14.5	8		
16	4130 - Aspen	High Density Pole	78.4	61	81-110	
17	4130 - Aspen	High Density Sapling	26.6	16		
18	42110 - Planted Red Pine	High Density Pole	10.3	52	81-110	
19	6122 - Black Spruce	High Density Pole	40.9	73	81-110	
20	4125 - Black, N. Pin Oak	Medium Density Pole	34.8	73	51-80	
21	4130 - Aspen	High Density Sapling	31.2	17		
22	4123 - Red Oak	High Density Pole	26.8	61	51-80	
23	42110 - Planted Red Pine	High Density Pole	11.5	52	81-110	
24	4130 - Aspen	Medium Density Pole	7.4	73	1-50	
26	4125 - Black, N. Pin Oak	Medium Density Pole	9.1	50	51-80	
27	4130 - Aspen	High Density Pole	12.3	50	51-80	

28 	Level 4 Cover Type 42110 - Planted Red Pine 4199 - Other Mixed Upland Deciduous 4199 - Other Mixed Upland Deciduous	Size Density High Density Pole Medium Density Pole High Density Pole	19.4 19.5	Stand Age 52	BA Range 111-140	General Comments:	MICHIGAN
 29 	Pine 4199 - Other Mixed Upland Deciduous 4199 - Other Mixed Upland Deciduous	Pole Medium Density Pole High Density			111-140		
	Upland Deciduous 4199 - Other Mixed Upland Deciduous	Density Pole High Density	19.5	61			
30	Upland Deciduous			.	51-80		
	42110 - Planted Red		11.5	73	111-140		
31	Pine	High Density Pole	10.1	52	81-110		
32	4310 - Pine, Oak Mix	Medium Density Pole	15.4	25	1-50		
33	42220 - Natural Jack Pine	Medium Density	15.3	26	1-50		
35	42110 - Planted Red Pine	High Density Pole	6.8	52	141-170		
36	42110 - Planted Red Pine	High Density Pole	14.2	52	81-110		
37	42110 - Planted Red Pine	High Density Pole	19.8	52	111-140		
38	4132 - Aspen, Jack Pine	High Density Pole	25.7	60	111-140		
39	42120 - Planted Jack Pine	High Density Pole	42.8	53	81-110		
40	42220 - Natural Jack Pine	High Density Sapling	7.7	17			
42	42110 - Planted Red Pine	Medium Density Pole	13.0	52	1-50		
44	42110 - Planted Red Pine	High Density Pole	11.3	52	111-140		
45	42110 - Planted Red Pine	High Density Pole	5.8	52	111-140		
48	429 - Mixed Upland Conifers	High Density Pole	6.7	73	81-110		
49	42110 - Planted Red Pine	High Density Pole	42.7	52	111-140		
50	4130 - Aspen	High Density Sapling	18.0	28			

s t	Crystal Falls Mgt. Unit			5 – Fo	orested Stands	Compartment: 158 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	42110 - Planted Red Pine	High Density Pole	12.4	52	111-140	
52	42220 - Natural Jack Pine	High Density Sapling	3.2	17		
53	4130 - Aspen	High Density Log	8.0	90	111-140	
54	42110 - Planted Red Pine	High Density Pole	13.2	52	81-110	
55	42220 - Natural Jack Pine	High Density Sapling	6.3	16		
57	42110 - Planted Red Pine	High Density Pole	12.1	52	81-110	
58	42220 - Natural Jack Pine	High Density Sapling	42.6	29		
 59	42220 - Natural Jack Pine	High Density Pole	21.3	53	81-110	
61	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	17.7	52	1-50	
62	42220 - Natural Jack Pine	High Density Pole	81.0	55	81-110	
63	42110 - Planted Red Pine	High Density Pole	11.4	52	111-140	
64	42110 - Planted Red Pine	High Density Pole	31.4	52	141-170	
65	42120 - Planted Jack Pine	High Density Pole	8.2	53	81-110	
66	42220 - Natural Jack Pine	High Density Sapling	36.8	16		
67	4130 - Aspen	High Density Sapling	14.1	17		
69	42110 - Planted Red Pine	High Density Pole	10.2	52	111-140	
70	42110 - Planted Red Pine	High Density Pole	20.7	52	111-140	
71	42220 - Natural Jack Pine	Medium Density Pole	10.8	52	1-50	

s t	Crystal Fall	ls Mgt. Unit		5 – Fo	orested Stands	Compartment: 158 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	42220 - Natural Jack Pine	High Density Sapling	5.2	29	1-50	
73	42110 - Planted Red Pine	High Density Pole	4.7	52	111-140	
74	42220 - Natural Jack Pine	High Density Pole	7.1	53	81-110	
75	42220 - Natural Jack Pine	High Density Sapling	9.2	29	1-50	
76	42220 - Natural Jack Pine	High Density Sapling	15.9	16		
77	42110 - Planted Red Pine	High Density Pole	17.6	52	111-140	
78	42220 - Natural Jack Pine	High Density Pole	53.1	53	81-110	
80	42220 - Natural Jack Pine	High Density Sapling	5.1	18		
83	42220 - Natural Jack Pine	High Density Pole	12.1	60	81-110	
84	42210 - Natural Red Pine	High Density Pole	9.5	52	51-80	
85	4130 - Aspen	High Density Sapling	5.7	8		
86	42220 - Natural Jack Pine	High Density Pole	79.3	17	1-50	
87	4121 - Oak, Aspen	High Density Log	10.8	90	51-80	
88	4130 - Aspen	High Density Pole	10.8	50	81-110	
90	42110 - Planted Red Pine	High Density Pole	11.1	52	111-140	
91	42220 - Natural Jack Pine	High Density Pole	38.9	52	81-110	

Compartment: 158 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	11 - Low Intensity Urban	1.5	No	Unspecified	
3	320 - Upland Shrub	1.0	No	Unspecified	
4	320 - Upland Shrub	3.2	No	Unspecified	
6	122 - Road/Parking Lot	19.7	No	Unspecified	
7	320 - Upland Shrub	3.7	No	Unspecified	
8	310 - Herbaceous Openland	3.9	No	Unspecified	
10	622 - Lowland Shrub	15.8	No	Unspecified	
12	622 - Lowland Shrub	1.7	No	Unspecified	
25	622 - Lowland Shrub	6.7	No	Unspecified	
34	3205 - Mixed Upland Shrub	8.1	Yes	Red Pine	
41	50 - Water	11.5	No	Unspecified	
43	3205 - Mixed Upland Shrub	19.7	Yes	Red Pine	
46	3205 - Mixed Upland Shrub	7.7	Yes	Red Pine	
47	3205 - Mixed Upland Shrub	8.0	Yes	Red Pine	
56	3205 - Mixed Upland Shrub	7.4	Yes	Red Pine	
60	3205 - Mixed Upland Shrub	10.2	Yes	Red Pine	
68	50 - Water	3.9	No	Unspecified	
79	3205 - Mixed Upland Shrub	56.5	Yes	Red Pine	
			<u> </u>		

6 - Nonforested Stands

Compartment: 158 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
81	122 - Road/Parking Lot	15.0	No	Unspecified	
82	3205 - Mixed Upland Shrub	34.0	Yes	Red Pine	
89	320 - Upland Shrub	5.6	No	Unspecified	

Compartment: 158
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
multiple - see	SCA Removal	12158-SCA Removal	7.7	Remove SCA. Parts of this AOI can be and should be harvested and will not be seen from the lake. Buffers on stands that make up this previously designated SCA will protect the lake and its scenic values.

Compartment: 158
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 Area	туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area		
Stream stocked trout populations and those of othe year to year. Coldwater streams in Michigar contributions of groundwater to their stream		stocked trout populations and those of other coldwater fish sy year to year. Coldwater streams in Michigan typically provide	eam flows. Such streams are established by Director's action and		
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas 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 more 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.			