



Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment #38 **Entry Year: 2012**
Compartment Acreage: 2885 **County: Dickinson**

Revision Date: 6-23-2010

Stand Examiner: Terry Cryderman

Legal Description: T43N R28W Sec 7-9, 16-21

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

Management Goals: Develop age class distribution in aspen type. Maintain diversity in hardwood types. Increase conifers where possible.

Soil and Topography: Rolling hills to swamps.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is all State-owned land, used by loggers, hunters, fisherpeople, campers, trappers, general recreationists. State land surrounds much of the compartment boundary.

Unique, Natural Features: North Branch of Ford River, Ford River, Dry Lake

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None known

Watershed and Fisheries Considerations: Protect water quality for all bodies of water, particularly the North Branch of the Ford River and the Ford River. Promote long lived conifer species along these waterbodies and use adequate buffer protection.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and Precambrian granite/gneiss subcrop below the glacial drift. There is not an economic use for these rocks, although some might have dimension stone potential. Groveland Iron mine is located approximately twelve miles to the southwest. The southwest portion of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located within two miles to the south of the compartment. There may be gravel potential. There is no economic oil and gas production in the UP.

Vehicle Access: Turner Road (county gravel) west of Ralph, Dry Lake Rd (poor two-track) and Vicenzie Road (poor two-track).

Survey Needs: Needed in sections 17-20

Recreational Facilities and Opportunities: Hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection: Felch protection area. Access to most upland stands is poor to fair, access to some swamp types would be difficult.

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**

Cover Type & Treatment Map

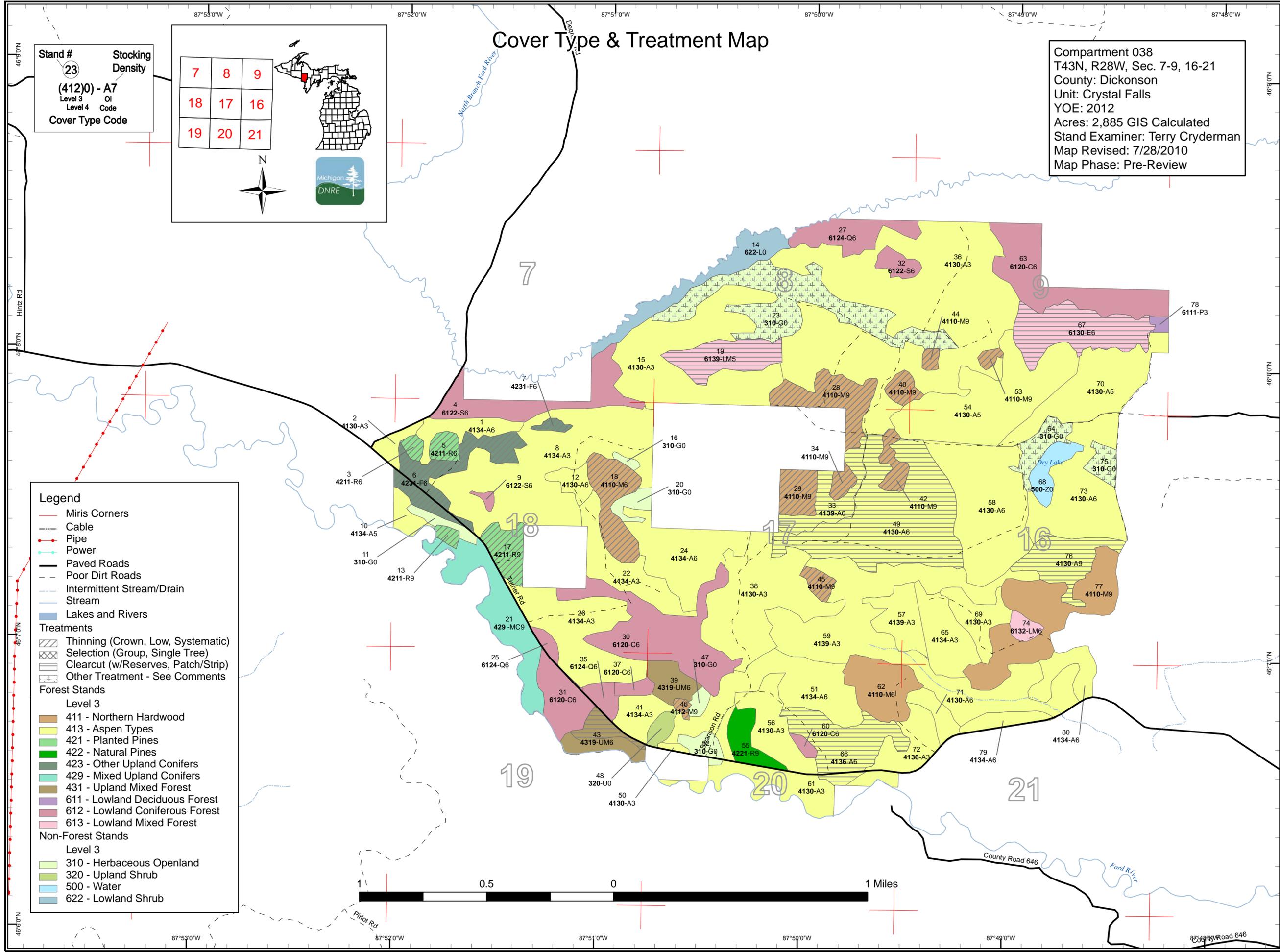
Compartment 038
 T43N, R28W, Sec. 7-9, 16-21
 County: Dicksonson
 Unit: Crystal Falls
 YOE: 2012
 Acres: 2,885 GIS Calculated
 Stand Examiner: Terry Cryderman
 Map Revised: 7/28/2010
 Map Phase: Pre-Review

Stand #
 23
Level 3
 (412)0 - A7
Level 4
 OI
Code
Stocking Density
Cover Type Code

7	8	9
18	17	16
19	20	21



- Legend**
- Miris Corners
 - Cable
 - Pipe
 - Power
 - Paved Roads
 - Poor Dirt Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Thinning (Crown, Low, Systematic)
 - Selection (Group, Single Tree)
 - Clearcut (w/Reserves, Patch/Strip)
 - Other Treatment - See Comments
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub



Stand Boundary Map

Stand #
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

7	8	9
18	17	16
19	20	21



Compartment 038
 T43N, R28W, Sec. 7-9, 16-21
 County: Dickson
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Legend

- Miris Corners
- Cable
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

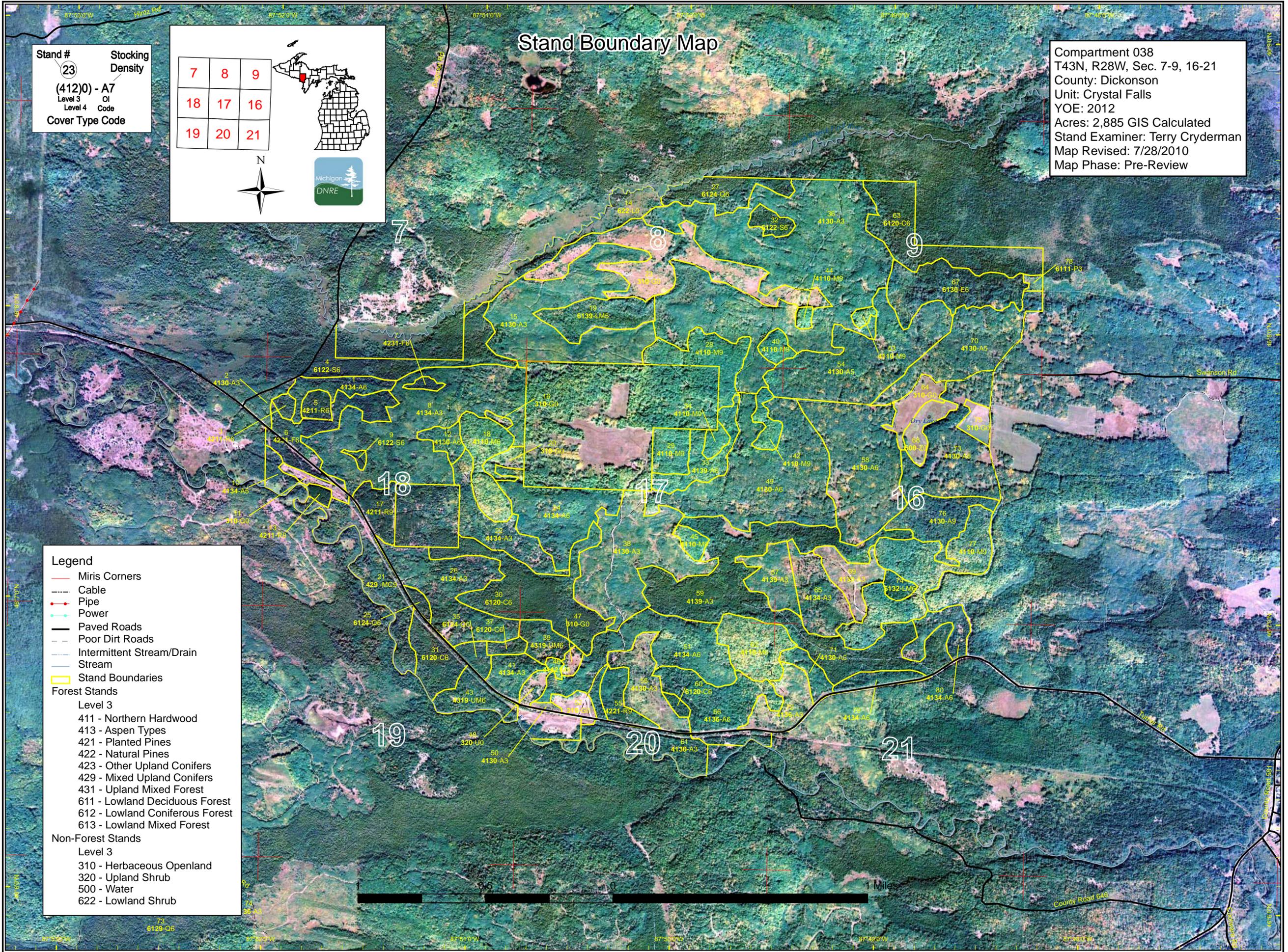
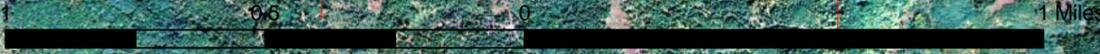
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Stand #
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

7	8	9
18	17	16
19	20	21

Compartment 038
 T43N, R28W, Sec. 7-9, 16-21
 County: Dickonson
 Unit: Crystal Falls
 YOE: 2012
 Acres: 2,885 GIS Calculated
 Stand Examiner: Terry Cryderman
 Map Revised: 7/28/2010
 Map Phase: Pre-Review

Legend

- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
 - SCA - Special Conservation Area
 - SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams

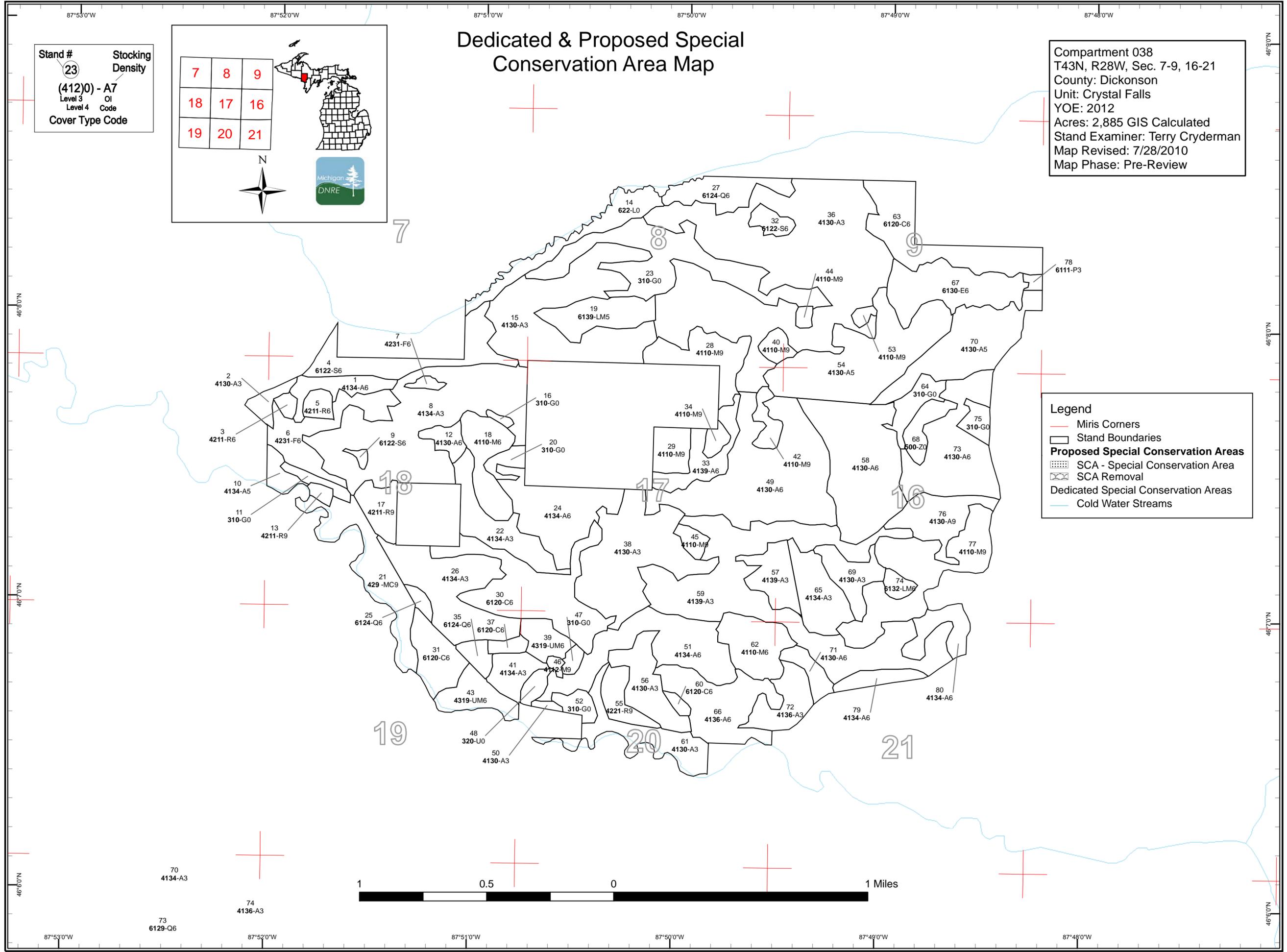


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	0	98	418	608	332	323	34	0	0	82	0	0	0	0	0	1895
Cedar	0	0	0	0	0	0	0	0	84	91	3	0	0	0	0	179
Herbaceous Openland	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Lowland Aspen/Balsam Poplar	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	8	0	0	0	5	28	0	0	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	87	0	0	0	0	0	94
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	47	9	0	0	0	0	0	56
Northern Hardwood	0	0	0	0	0	0	0	0	0	235	0	0	0	0	0	235
Red Pine	0	0	0	0	0	34	0	0	0	16	0	0	0	0	0	50
Upland Conifers	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	54
Upland Mixed Forest	0	0	0	0	0	16	0	0	0	23	0	0	0	0	0	38
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	44
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	197	98	421	608	340	416	34	0	142	626	3	0	0	0	0	2885



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2012

Compartment 038
Total Compartment Acres: 2885

Acres by Treatment Type

Commercial Harvest - 540	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 110	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	241	0	0	0	0	0	241
Lowland Mixed Forest	87	0	0	0	0	0	87
Northern Hardwood	0	0	0	0	124	0	124
Red Pine	0	0	0	0	34	0	34
Upland Mixed Forest	10	0	0	0	0	0	10
Upland Spruce/Fir	0	0	0	0	44	0	44
Total	339	0	0	0	201	0	540



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	12038003-Cut	4.1	42110 - Planted Red Pine	High Density Pole	48	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Row thin every third row of Red Pine. Cut all species except Red Pine. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u></p>									
5	12038005-Cut	7.7	42110 - Planted Red Pine	High Density Pole	48	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Row thin every third row of Red Pine. Cut all species except Red Pine. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u></p>									
6	12038006-Cut	40.4	42311 - Planted Spruce, Mixed Deciduous	High Density Pole	43	Harvest	Systematic Thinning	Planted Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut two rows of White Spruce and leave three. Cut all species except White Spruce. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> check for spruce budworm</p>									
7	12038007-Cut	3.4	42310 - Planted Spruce	High Density Pole	43	Harvest	Systematic Thinning	Planted Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut two rows of White Spruce and leave three rows. Cut all other species. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> check for spruce budworm</p>									
13	12038013-Cut	3.7	42110 - Planted Red Pine	High Density Log	48	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut every third row of Red Pine. Cut all other species. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u></p>									
17	12038017-Cut	18.0	42110 - Planted Red Pine	High Density Log	48	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut every third row of Red Pine. Cut all other species. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u></p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	12038018-Cut	32.6	4110 - Sugar Maple Association	High Density Pole	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Release crop trees by reducing BA to 80. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
19	12038019-Cut	32.7	6139 - Mixed Lowland Forest	Medium Density Pole	80	Harvest	Clearcut with Reserves	Mixed Coniferous Lowland Forest	Cmpt. Review Proposal
<u>Prescription</u> Cut all species two inches and over except Cedar. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
28	12038028-Cut	34.3	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Release crop trees by thinning to 80 BA. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
29	12038029-Cut	16.6	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA to release crop trees. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
33	12038033-Cut	26.1	4139 - Aspen, Mixed Deciduous	High Density Pole	80	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Cut all stems two inches and larger to perpetuate aspen type. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
34	12038034-Cut	5.9	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA, retaining minor species; focus on crown release on crop trees; remove poorer formed trees <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> <u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	12038040-Cut	8.2	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80, focusing on crown releasing the crop trees; favor minor species;									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
42	12038042-Cut	10.4	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80 focusing on crown release of the crop trees; favor minor species; remove poorer formed trees									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
43	12038043-Cut	10.4	4319 - Mixed Upland Forest	High Density Pole	80	Harvest	Clearcut with Reserves	Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> Remove all stems 2" and over at dbh except cedar; leave 200 foot river buffer, which will serve as retentionperform									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> perform regen check as required by WIs									
<u>Steps:</u>									
44	12038044-Cut	3.4	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80 focusing on crown release of crop trees, removing poorly formed trees, favor minor species									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
45	12038045-Cut	7.0	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to BA 80 focusing on crown release of crop trees; remove poorly formed trees; favor minor species									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
46	12038046-Cut	2.3	4112 - Maple, Beech, Cherry Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80 BA, focusing on crown releasing the crop trees, favoring minor species and removing poorer formed trees									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	12038049-Cut	131.3	4130 - Aspen	High Density Pole	46	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Cut all species 2" dbh and up; retention along south side along cedar swamp									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
53	12038053-Cut	3.4	4110 - Sugar Maple Association	High Density Log	80	Harvest	Crown Thinning	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Thin to 80BA focusing on crown release of crop trees; remove poorly formed trees; favor minor species									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
66	12038066-Cut	50.4	4136 - Aspen, Mixed Conifer	High Density Pole	80	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Remove all stems 2" and greater dbh; retain red & white pine, cedar and hemlock which will serve as retention									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> perform regen check as required by WIs									
<u>Steps:</u>									
67	12038067-Cut	54.4	6130 - Fir, Aspen, Maple	High Density Pole	81	Harvest	Clearcut with Reserves	Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> Cut all stems 2" and greater at dbh except for cedar; retention will be along north side									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> perform regen checks per WIs									
<u>Steps:</u>									
76	12038076-Cut	33.6	4130 - Aspen	High Density Log	52	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> Cut all stems 2" and up at dbh.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> perform regen check per WIs									
<u>Steps:</u>									
23	NF_12038023- NonFor	85.5	Non-Forested		0	Non-Forest Management	Other - Specify	Cool Season Grass	Cmpt. Review Proposal
<u>Prescription</u> Opening Maintenance: Burn or Disc, Seed & Fertilize opening, Berm when completed.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
64	NF_12038064- NonFor	15.5	Non-Forested		0	Non-Forest Management	Other - Specify	Cool Season Grass	Cmpt. Review Proposal

Prescription. Opening Maintenance: Disc, Seed and Fertilize, and Opening.
Specs:

Other
Comments:

Next
Steps:

75	NF_12038075- NonFor	9.1	Non-Forested		0	Non-Forest Management	Other - Specify	Cool Season Grass	Cmpt. Review Proposal
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Prescription. Opening Maintenance: Disc, Seed & Fertilize Opening and Berm.
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
 Acreage Proposed: 650.5**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Stand	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 038
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Pole	18.5	34		
2	4130 - Aspen	High Density Sapling	8.8	23		
3	42110 - Planted Red Pine	High Density Pole	4.1	48	141-170	
4	6122 - Black Spruce	High Density Pole	44.8	77		
5	42110 - Planted Red Pine	High Density Pole	7.7	48	200+	
6	42311 - Planted Spruce, Mixed Deciduous	High Density Pole	40.4	43	111-140	
7	42310 - Planted Spruce	High Density Pole	3.4	43	111-140	
8	4134 - Aspen, Spruce/Fir	High Density Sapling	144.6	23		
9	6122 - Black Spruce	High Density Pole	2.2	77		
10	4134 - Aspen, Spruce/Fir	Medium Density Pole	9.3	48		
12	4130 - Aspen	High Density Pole	10.0	34		
13	42110 - Planted Red Pine	High Density Log	3.7	48	200+	
15	4130 - Aspen	High Density Sapling	110.0	14		
17	42110 - Planted Red Pine	High Density Log	18.0	48	171-200	
18	4110 - Sugar Maple Association	High Density Pole	32.6	80	111-140	
19	6139 - Mixed Lowland Forest	Medium Density Pole	32.7	80		
21	429 - Mixed Upland Conifers	High Density Log	54.4	80		
22	4134 - Aspen, Spruce/Fir	High Density Sapling	38.4	23		



S t a n d	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 038	Michigan DNRE
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
						General Comments:	
24	4134 - Aspen, Spruce/Fir	High Density Pole	58.4	33			
25	6124 - Lowland Spruce- Fir	High Density Pole	4.6	77			
26	4134 - Aspen, Spruce/Fir	High Density Sapling	69.8	23			
27	6124 - Lowland Spruce- Fir	High Density Pole	28.3	81			
28	4110 - Sugar Maple Association	High Density Log	34.3	80	111-140	Thin to 80 BA to release crop trees.	
29	4110 - Sugar Maple Association	High Density Log	16.6	80	111-140	Thin to 80 BA to release crop trees.	
30	6120 - Lowland Cedar	High Density Pole	78.5	77		Lot of variety.	
31	6120 - Lowland Cedar	High Density Pole	27.9	80			
32	6122 - Black Spruce	High Density Pole	9.0	81			
33	4139 - Aspen, Mixed Deciduous	High Density Pole	26.1	80		Final harvest. A real mix of species and ages.	
34	4110 - Sugar Maple Association	High Density Log	5.9	80	111-140	Thin to 80 BA to release crop trees.	
35	6124 - Lowland Spruce- Fir	High Density Pole	8.4	39			
36	4130 - Aspen	High Density Sapling	275.1	20			
37	6120 - Lowland Cedar	High Density Pole	5.5	78			
38	4130 - Aspen	High Density Sapling	93.5	14			
39	4319 - Mixed Upland Forest	High Density Pole	15.5	40			
40	4110 - Sugar Maple Association	High Density Log	8.2	80	111-140		
41	4134 - Aspen, Spruce/Fir	High Density Sapling	17.5	24			

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Crystal Falls Mgt. Unit

5 – Forested Stands

Compartment: 038

Inventory Method: IFMAP

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4110 - Sugar Maple Association	High Density Log	10.4	80	111-140	
43	4319 - Mixed Upland Forest	High Density Pole	22.6	80		mix of species; needs buffer from river
44	4110 - Sugar Maple Association	High Density Log	3.4	80	111-140	
45	4110 - Sugar Maple Association	High Density Log	7.0	80	111-140	
46	4112 - Maple, Beech, Cherry Association	High Density Log	2.3	80	111-140	
49	4130 - Aspen	High Density Pole	131.3	46		Cutting for age class distribution
50	4130 - Aspen	High Density Sapling	2.2	7		There is a trace of red pine here
51	4134 - Aspen, Spruce/Fir	High Density Pole	69.3	40		
53	4110 - Sugar Maple Association	High Density Log	3.4	80	111-140	
54	4130 - Aspen	Medium Density Pole	100.9	45		
55	42210 - Natural Red Pine	High Density Log	16.4	80	81-110	
56	4130 - Aspen	High Density Sapling	34.0	7		
57	4139 - Aspen, Mixed Deciduous	High Density Sapling	25.2	15		
58	4130 - Aspen	High Density Pole	96.7	32		
59	4139 - Aspen, Mixed Deciduous	High Density Sapling	163.3	15		
60	6120 - Lowland Cedar	High Density Pole	3.4	90		
61	4130 - Aspen	High Density Sapling	39.2	7		
62	4110 - Sugar Maple Association	High Density Pole	35.0	80	81-110	Thinned in 2005

S t a n d	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 038
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
General Comments:						
63	6120 - Lowland Cedar	High Density Pole	63.2	87		
65	4134 - Aspen, Spruce/Fir	High Density Sapling	34.2	22		There are about 10% residual trees in overstory
66	4136 - Aspen, Mixed Conifer	High Density Pole	56.2	80		
67	6130 - Fir, Aspen, Maple	High Density Pole	54.4	81		
69	4130 - Aspen	High Density Sapling	22.9	6		There is white pine residual trees in this stand.
70	4130 - Aspen	Medium Density Pole	64.9	35		
71	4130 - Aspen	High Density Pole	11.9	32		
72	4136 - Aspen, Mixed Conifer	High Density Sapling	26.1	16		
73	4130 - Aspen	High Density Pole	71.3	36		
74	6132 - Mixed Lowland Forest with Cedar	High Density Pole	6.5	77		
76	4130 - Aspen	High Density Log	33.6	52		
77	4110 - Sugar Maple Association	High Density Log	76.1	80	81-110	Thinned in 2005
78	6111 - Lowland Balsam Poplar	High Density Sapling	2.7	14		
79	4134 - Aspen, Spruce/Fir	High Density Pole	12.0	45		
80	4134 - Aspen, Spruce/Fir	High Density Pole	19.9	26		





Stand	Cover Type	Acres	Gen Cmts:
11	310 - Herbaceous Openland	6.8	
14	622 - Lowland Shrub	34.8	
16	310 - Herbaceous Openland	2.1	
20	310 - Herbaceous Openland	8.2	
23	310 - Herbaceous Openland	85.5	
47	310 - Herbaceous Openland	4.4	
48	320 - Upland Shrub	6.9	
52	310 - Herbaceous Openland	9.1	
64	310 - Herbaceous Openland	15.5	
68	50 - Water	14.2	
75	310 - Herbaceous Openland	9.1	



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.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments
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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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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.