Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment # 7 Entry Year: 2012
Compartment Acreage: 3284 County: Dickinson

Revision Date: July 19, 2010

Stand Examiner: Scott Sebero

Legal Description: T44N, R29W, Sections 9, 15, 16, 17, 19, 20, 21, 29 & 30.

Identified Planning Goals ('Management Area' or '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 Pemene and Emmet soils that are well-drained loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops up to 50 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in and around this compartment consist mostly of State lands with a few private parcels and camps. These lands are used mainly for hunting and managed for forest products.

Unique, Natural Features: Two Mile Creek.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 7 is located in the heart of the Floodwood Deeryard in northwest Dickinson County. Almost ¾ of the compartment is a combination of aspen and swamp conifer types. Many of the swamp conifer types are high quality cedar that should be protected. Care should be taken to assure the stands remain intact, if harvesting takes place in adjacent stands. Adequate buffers to

protect drainages and guard against blow down should be provided in all upland sales. Travel corridors should be maintained between Q-types.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 0 and 100 feet in the west. Precambrian granite/gneiss and the Michigamme Formation subcrop below the glacial drift. There is not an economic use for these rocks, although some of the granite might have dimension stone potential. Iron mines are located approximately fourteen miles to the south. A gravel pit is indicated two miles to the west. There appears to be good gravel potential in the compartment. Part of this area was previously leased for metallic exploration and potential may still exist. The Compartment to the north has been nominated for metallic leasing. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is from Two Mile Creek Road and associated trail roads.

Survey Needs: None.

Recreational Facilities and Opportunities: This area is used heavily by both deer and grouse hunters. Two Mile Creek is a good quality trout stream.

Fire Protection: None.

Additional Compartment Information: None.

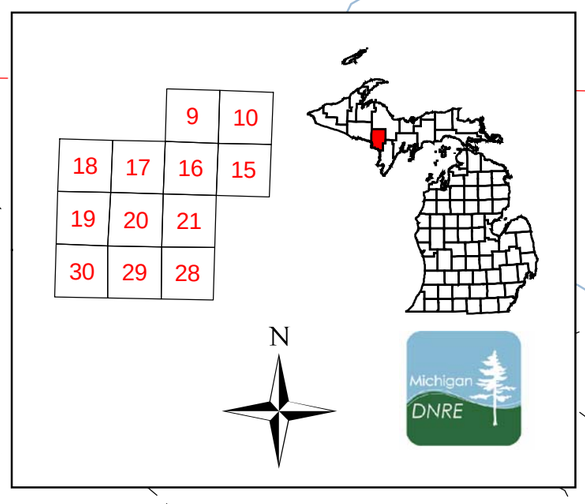
- **The following reports from the Inventory are attached:**
  - **Total Acres by Cover Type and Age Class**
  - **Proposed Treatment Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**
  - **Stand Details (Forested and Nonforested)**
  - **Dedicated 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**

Cover Type & Treatment Map

Compartment 007
T44N, R29W, Sec. 9, 10, 15 - 21, 28 - 30
County: Dickinson
Unit: Crystal Falls
YOE: 2012
Acres: 3,284 GIS Calculated
Stand Examiner: Scott Sebero
Map Revised: 07/28/2010
Map Phase: Pre-Review

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



87°59'0"W 87°58'0"W 87°57'0"W 87°56'0"W
46°11'0"N 46°12'0"N 46°13'0"N

9 10 18 17 16 15 19 20 21 30 29 28

1 622-L0
2 622-L0
3 6122-S6
4 4136-A6
5 4319-UM9
6 4130-A6
7 622-L0
8 6120-C6
9 622-L0
10 320-U0
11 4136-A3
12 4222-J1
13 622-L0
14 4238-MC6
15 4110-M6
16 4130-A6
17 4130-A3
18 320-U0
19 622-L0
20 4134-A6
21 4130-A3
22 4119-M6
23 4130-A6
24 4211-R6
25 622-L0
26 6120-C6
27 6122-S6
28 4130-A6
29 4134-A3
30 4319-UM6
31 4134-A6
32 320-U0
33 4110-M6
34 4221-R9
35 4110-M6
36 622-L0
37 4134-A6
38 6120-C6
39 4117-M6
40 4221-R9
41 4134-A6
42 4232-F6
43 4110-M9
44 6122-S6
45 4211-R6
46 4130-A3
47 6120-C6
48 4134-A9
49 4134-A6
50 4130-A3
51 622-L0
52 4130-A6
53 6122-S6
54 320-U0
55 4221-R9
56 320-U0
57 320-U0
58 6120-C6
59 320-U0
60 320-U0
61 6122-S6
62 4134-A6
63 429 -MC6
64 4136-A2
65 6124-Q6
66 4134-A6
67 4319-UM5
68 6122-S6
69 4212-J6
70 320-U0
71 622-L0
72 622-L0
73 4130-A3
74 6120-C5
75 4110-M6
76 4130-A6
77 622-L0
78 622-L0
79 622-L0

Two Mile Creek Rd
Webber Creek Rd
Two mile Cr
South Branch Ford River

1 0.5 0 1 Miles

Legend

- Miris Corners
- Cable
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- 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
- 612 - Lowland Coniferous Forest

Non-Forest Stands

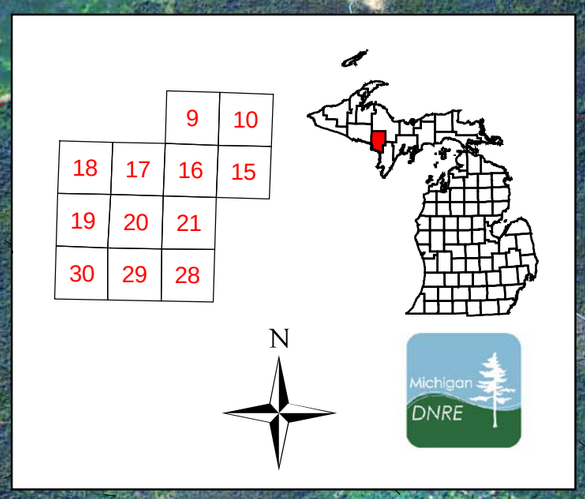
Level 3

- 320 - Upland Shrub
- 622 - Lowland Shrub

Stand Boundary Map

Compartment 007
T44N, R29W, Sec. 9, 10, 15 - 21, 28 - 30
County: Dickinson
Unit: Crystal Falls
YOE: 2012
Acres: 3,284 GIS Calculated
Stand Examiner: Scott Sebero
Map Revised: 07/28/2010
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Cable
- Pipe
- Power
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Trails
- Snowmobile Trails
- 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
- 612 - Lowland Coniferous Forest

Non-Forest Stands

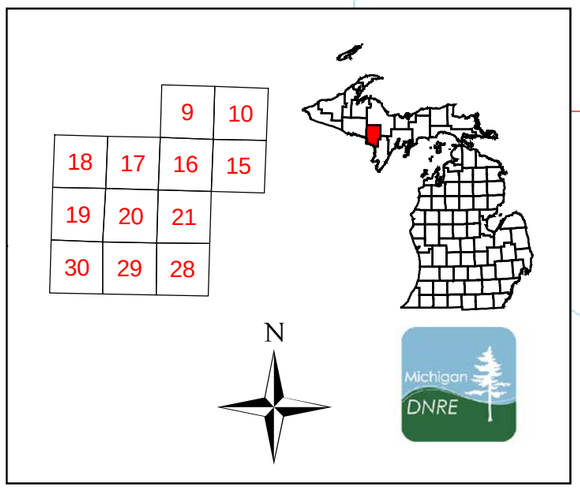
Level 3

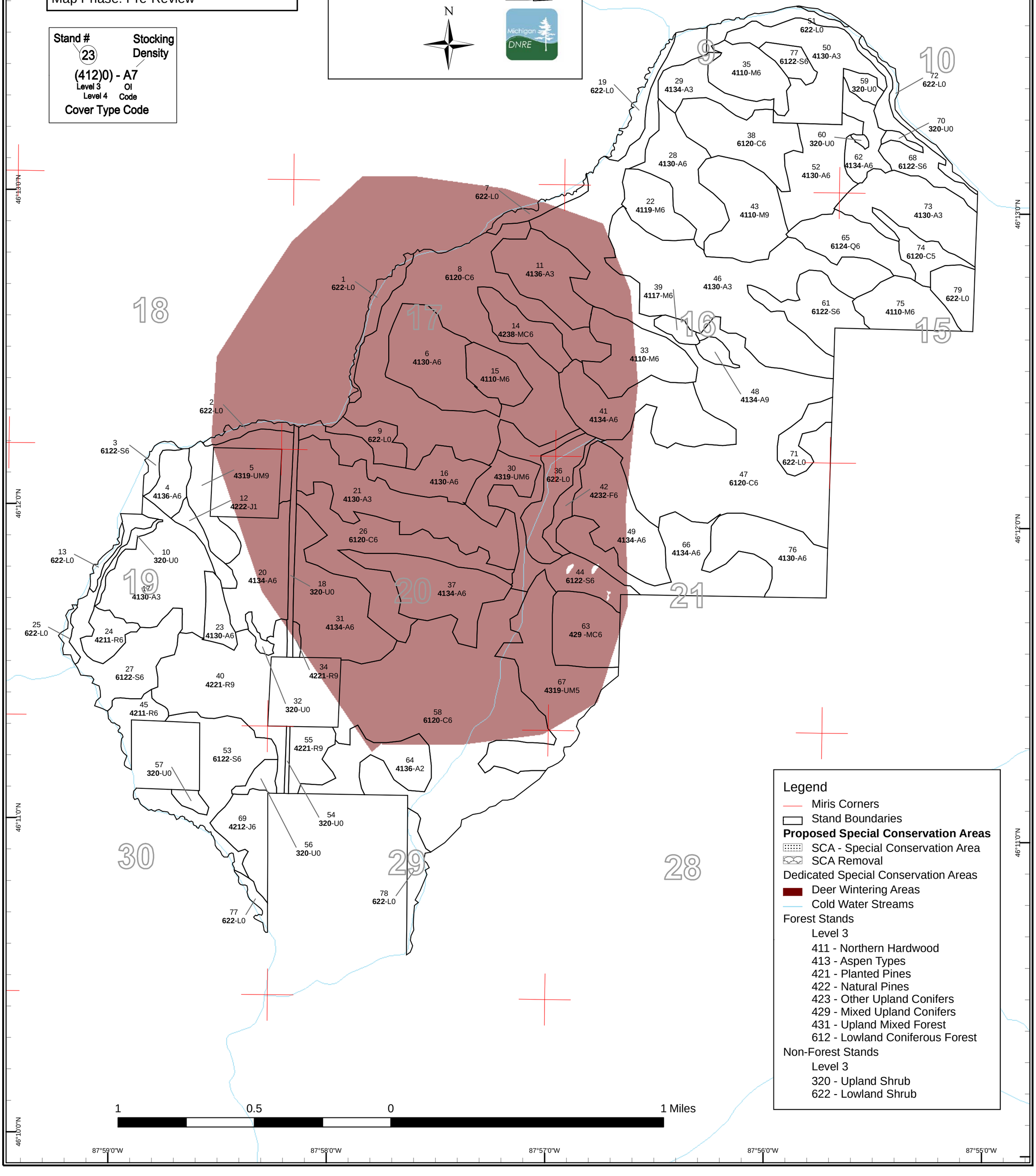
- 320 - Upland Shrub
- 622 - Lowland Shrub

Dedicated & Proposed Special Conservation Area Map

Compartment 007
T44N, R29W, Sec. 9, 10, 15 - 21, 28 - 30
County: Dickinson
Unit: Crystal Falls
YOE: 2012
Acres: 3,284 GIS Calculated
Stand Examiner: Scott Sebero
Map Revised: 07/28/2010
Map Phase: Pre-Review

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





Legend
- Miris Corners
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Deer Wintering Areas
- Cold Water Streams

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
  - 612 - Lowland Coniferous Forest

Non-Forest Stands
- Level 3
  - 320 - Upland Shrub
  - 622 - Lowland Shrub

Table 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit **Compartment 007 Year of Entry 2012**

Age Class

	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	Total
Aspen	0	221	171	287	357	97	0	0	109	6	0	0	0	0	0	**1248**
Cedar	0	0	0	0	0	0	0	0	0	902	0	0	0	0	0	**902**
Jack Pine	0	10	0	0	0	0	30	0	0	0	0	0	0	0	0	**40**
Lowland Conifers	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	**35**
Lowland Shrub	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**160**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	267	0	0	0	0	0	**267**
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	220	0	0	0	0	**227**
Red Pine	0	0	0	0	0	0	30	0	0	108	0	0	0	0	0	**138**
Upland Conifers	0	0	0	0	40	0	0	0	0	26	0	0	0	0	0	**67**
Upland Mixed Forest	0	0	0	107	0	0	0	0	39	0	0	0	0	0	0	**146**
Upland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**46**
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	**11**
Total	**205**	**231**	**171**	**394**	**397**	**97**	**60**	**0**	**147**	**1361**	**220**	**0**	**0**	**0**	**0**	**3284**

Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2012

Compartment 007
Total Compartment Acres: 3284

Acres by Treatment Type

Commercial Harvest - 350	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 77	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	115	0	0	0	0	0	**115**
Jack Pine	30	0	0	0	0	0	**30**
Northern Hardwood	0	0	0	0	6	0	**6**
Red Pine	0	108	0	0	15	0	**123**
Upland Conifers	26	0	0	0	0	0	**26**
Upland Mixed Forest	39	0	0	0	0	0	**39**
Upland Spruce/Fir	11	0	0	0	0	0	**11**
Total	**220**	**108**	**0**	**0**	**22**	**0**	**350**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	12007005-Cut	38.9	4319 - Mixed Upland Forest	High Density Log	70	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

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

Other Comments: Wet drainages will be painted out of harvest area.

Next Steps: Regen survey as per work construction.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	12007014-Cut	26.4	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	85	Harvest	Clearcut with Reserves	Non Pine Upland Conifer, Mixed Deciduous	Cmpt. Review Proposal

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

Other Comments:

Next Steps: Regen survey will be done per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	12007024-Cut	15.4	42110 - Planted Red Pine	High Density Pole	54	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut every third row of red pine. Cut all aspen and mixed hardwood 2" or greater DBH. Cut all balsam and spruce with a stump diameter of six inches or more. No oak, cedar or hemlock will be cut.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	12007034-Cut	2.2	42210 - Natural Red Pine	High Density Log	85	Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood 2" or greater DBH. Cut all spruce, balsam and jackpine with a stump diameter greater than 5". Red and white pine will be marked to remove trees within all size classes. Some small regeneration gaps will be marked out. BA will be reduced to between 50 to 90.

Other Comments:

Next Steps: Regen survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	12007039-Cut	6.4	4117 - Mixed N. Hardwood - Pine	High Density Pole	85	Harvest	Crown Thinning	Mixed N. Hardwood - Pine	Cmpt. Review Proposal

Prescription Specs: Remove trees from dominate and codominate crown classes. Reduce BA to between 60 to 90.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	12007040-Cut	84.4	42210 - Natural Red Pine	High Density Log	85	Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood 2" and greater DBH. Cut all spruce, balsam and jackpine with a stump diameter of six inches or more. Red and white pine will be marked to remove trees within all size classes. Some small to medium regeneration gaps will be marked out in areas heavy to aspen and spruce. BA will be 50 to 90.

Other Comments: Cut will need to be followed up with herbicide and scarification of regen gaps.

Next Steps: Regen survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	12007042-Cut	10.6	42320 - Upland Spruce	High Density Pole	85	Harvest	Clearcut with Reserves	Upland Spruce	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood 2 inches or more DBH. Cut all spruce and balsam with a stump diameter of six inches or more. No red or white pine or cedar will be cut.

Other Comments:

Next Steps: Regen survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	12007048-Cut	6.2	4134 - Aspen, Spruce/Fir	High Density Log	85	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

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

Other Comments:

Next Steps: Regen survey as per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	12007049-Cut	59.8	4134 - Aspen, Spruce/Fir	High Density Pole	76	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal

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

Other Comments:

Next Steps: Regen survey as per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	12007052-Cut	48.7	4130 - Aspen	High Density Pole	76	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood greater than 2" DBH. Cut all spruce and balsam with a stump diameter of six inches or greater. No cedar, hemlock, oak or red and white pine will be cut.

Other Comments:

Next Steps: Regen survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	12007055-Cut	21.2	42210 - Natural Red Pine	High Density Log	85	Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood 2" and greater DBH. Cut all spruce, balsam and jackpine with a stump diameter of six inches or more. Red and white pine will be marked to remove trees within all size classes. Some small to medium regeneration gaps will be marked out. Residual BA will be 50 to 90.

Other Comments: Harvest will need to be followed up by herbicide and scarification of regen gaps.

Next Steps: Regen survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
69	12007069-Cut	29.8	42120 - Planted Jack Pine	High Density Pole	55	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal

Prescription Specs: Cut all trees 2" or greater DBH.

Other Comments:

Next Steps: Herbicide to prevent aspen from growing. Plant back to jackpine.
Survey per work constructions.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	12007017-NonFor	77.2	4130 - Aspen	High Density Sapling	7	Non-Forest Management	Other - Specify	Cool Season Grass	Cmpt. Review Proposal

Prescription Specs: Opening Maintenance: Disc, Seed & Fertilize, and Berm Hunter Walking Trail.

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: 427.1

Crystal Falls Mgt. Unit

Table 4 -- Treatments Prescribed with a Limiting Factor

Compartment: 007
Year of Entry 2012

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

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	6122 - Black Spruce	High Density Pole	6.1	85	81-110	
4	4136 - Aspen, Mixed Conifer	High Density Pole	16.9	40	1-50	
5	4319 - Mixed Upland Forest	High Density Log	38.9	70	81-110	
6	4130 - Aspen	High Density Pole	60.7	37	51-80	
8	6120 - Lowland Cedar	High Density Pole	201.4	85	111-140	
11	4136 - Aspen, Mixed Conifer	High Density Sapling	46.7	13		
12	42221 - Natural Jack Pine, Mixed Deciduous	Low Density Sapling	9.8	7		
14	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	26.4	85	81-110	
15	4110 - Sugar Maple Association	High Density Pole	22.7	90	81-110	
16	4130 - Aspen	High Density Pole	44.4	35	51-80	
17	4130 - Aspen	High Density Sapling	77.2	7		
20	4134 - Aspen, Spruce/Fir	High Density Pole	55.8	26	1-50	
21	4130 - Aspen	High Density Sapling	83.3	6		
22	4119 - Mixed Northern Hardwoods	High Density Pole	27.7	90	81-110	
23	4130 - Aspen	High Density Pole	13.8	40	51-80	
24	42110 - Planted Red Pine	High Density Pole	15.4	54	111-140	
26	6120 - Lowland Cedar	High Density Pole	78.1	85	111-140	
27	6122 - Black Spruce	High Density Pole	55.4	85	111-140	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4130 - Aspen	High Density Pole	45.7	41	51-80	
29	4134 - Aspen, Spruce/Fir	High Density Sapling	25.5	13		
30	4319 - Mixed Upland Forest	High Density Pole	21.9	29	1-50	
31	4134 - Aspen, Spruce/Fir	High Density Pole	69.4	37	51-80	
33	4110 - Sugar Maple Association	High Density Pole	48.4	90	81-110	
34	42210 - Natural Red Pine	High Density Log	2.2	85	141-170	
35	4110 - Sugar Maple Association	High Density Pole	32.4	90	81-110	
37	4134 - Aspen, Spruce/Fir	High Density Pole	58.2	37	51-80	
38	6120 - Lowland Cedar	High Density Pole	51.3	85	111-140	
39	4117 - Mixed N. Hardwood - Pine	High Density Pole	6.4	85	111-140	
40	42210 - Natural Red Pine	High Density Log	84.4	85	141-170	
41	4134 - Aspen, Spruce/Fir	High Density Pole	69.3	30	1-50	
42	42320 - Upland Spruce	High Density Pole	10.6	85	81-110	
43	4110 - Sugar Maple Association	High Density Log	55.1	90	81-110	
44	6122 - Black Spruce	High Density Pole	53.3	85	1-50	
45	42110 - Planted Red Pine	High Density Pole	14.7	54	81-110	
46	4130 - Aspen	High Density Sapling	160.8	20		
47	6120 - Lowland Cedar	High Density Pole	306.6	85	111-140	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4134 - Aspen, Spruce/Fir	High Density Log	6.2	85	81-110	
49	4134 - Aspen, Spruce/Fir	High Density Pole	59.8	76	81-110	
50	4130 - Aspen	High Density Sapling	59.8	13		
52	4130 - Aspen	High Density Pole	48.7	76	81-110	
53	6122 - Black Spruce	High Density Pole	59.8	85	81-110	
55	42210 - Natural Red Pine	High Density Log	21.2	85	141-170	
58	6120 - Lowland Cedar	High Density Pole	246.6	85	111-140	
61	6122 - Black Spruce	High Density Pole	36.0	85	81-110	
62	4134 - Aspen, Spruce/Fir	High Density Pole	20.7	46	51-80	
63	429 - Mixed Upland Conifers	High Density Pole	40.2	37	51-80	
64	4136 - Aspen, Mixed Conifer	Medium Density	39.2	15	1-50	
65	6124 - Lowland Spruce-Fir	High Density Pole	35.1	85	81-110	
66	4134 - Aspen, Spruce/Fir	High Density Pole	70.2	28	1-50	
67	4319 - Mixed Upland Forest	Medium Density Pole	85.0	25	1-50	
68	6122 - Black Spruce	High Density Pole	45.1	85	81-110	
69	42120 - Planted Jack Pine	High Density Pole	29.8	55	141-170	
73	4130 - Aspen	High Density Sapling	60.9	6		
74	6120 - Lowland Cedar	Medium Density Pole	18.0	85	1-50	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4110 - Sugar Maple Association	High Density Pole	34.1	90	81-110	
76	4130 - Aspen	High Density Pole	54.5	37	51-80	
77	6122 - Black Spruce	High Density Pole	10.8	85	81-110	

Stand	Cover Type	Acres	Gen Cmts:
1	622 - Lowland Shrub	13.2	
2	622 - Lowland Shrub	6.8	
7	622 - Lowland Shrub	9.2	
9	622 - Lowland Shrub	15.5	
10	320 - Upland Shrub	5.0	
13	622 - Lowland Shrub	3.8	
18	320 - Upland Shrub	11.1	
19	622 - Lowland Shrub	13.4	
25	622 - Lowland Shrub	3.7	
32	320 - Upland Shrub	3.3	
36	622 - Lowland Shrub	29.1	
51	622 - Lowland Shrub	1.5	
54	320 - Upland Shrub	2.2	
56	320 - Upland Shrub	7.6	
57	320 - Upland Shrub	4.7	
59	320 - Upland Shrub	7.3	
60	320 - Upland Shrub	1.3	
70	320 - Upland Shrub	3.0	

Stand	Cover Type	Acres	Gen Cmts:
71	622 - Lowland Shrub	17.0	
72	622 - Lowland Shrub	9.2	
77	622 - Lowland Shrub	4.9	
78	622 - Lowland Shrub	14.5	
79	622 - Lowland Shrub	18.0	

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

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.
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.