



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12048

Entry Year 2015

Acreage: 1,451

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2013-07-08

Stand Examiner:

Legal Description:

T43N-R29W Sections 18, 19, 20, 29 and 30

Identified Planning 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 welldrained 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:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Ford River is the north border of this compartment.

Wildlife Habitat Considerations:

This compartment has had aspen age-class distribution for grouse and summer range for deer. The Ford River corridor provides valuable riparian habitat for wetland associated species and also is an important movement corridor for species such as deer and bear. Mesic and lowland conifers in this compartment provide critical winter habitat for deer, hare and bobcat. Transitions zones between uplands and lowlands are important for wintering deer to access upland food sources. Lowland conifers and lowland hardwoods types are important habitats for black bear. There are hunter walking trails that will be maintained in this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Cambrian Munising Formation and the Precambrian Michigamme Formation subcrop below the glacial drift. There is no current economic use for these rocks. The Groveland Iron mine is located approximately six miles to the south. This Compartment is located between areas leased for metallic exploration and potential may still exist. A gravel pit is located in Section 20 and there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Good access.

Survey Needs:

Three corners needed in section 19. Treaspass.

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 048
 T43N R29W Sections 18-20, 29, 30
 County: Dickinson
 Unit: Crystal Falls
 YOY: 2015
 Acres: 1,451 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 08/07/14
 Map Phase: Post-Review

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

Legend

- Miris Corners
- PLSS Corner
- Berms
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Pipeline
- Powerline
- Snowmobile Trail
- Stream
- Intermittent Stream
- State Forest Land

Treatments Post Review

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Other Treatment - See Comments

Forest Stands

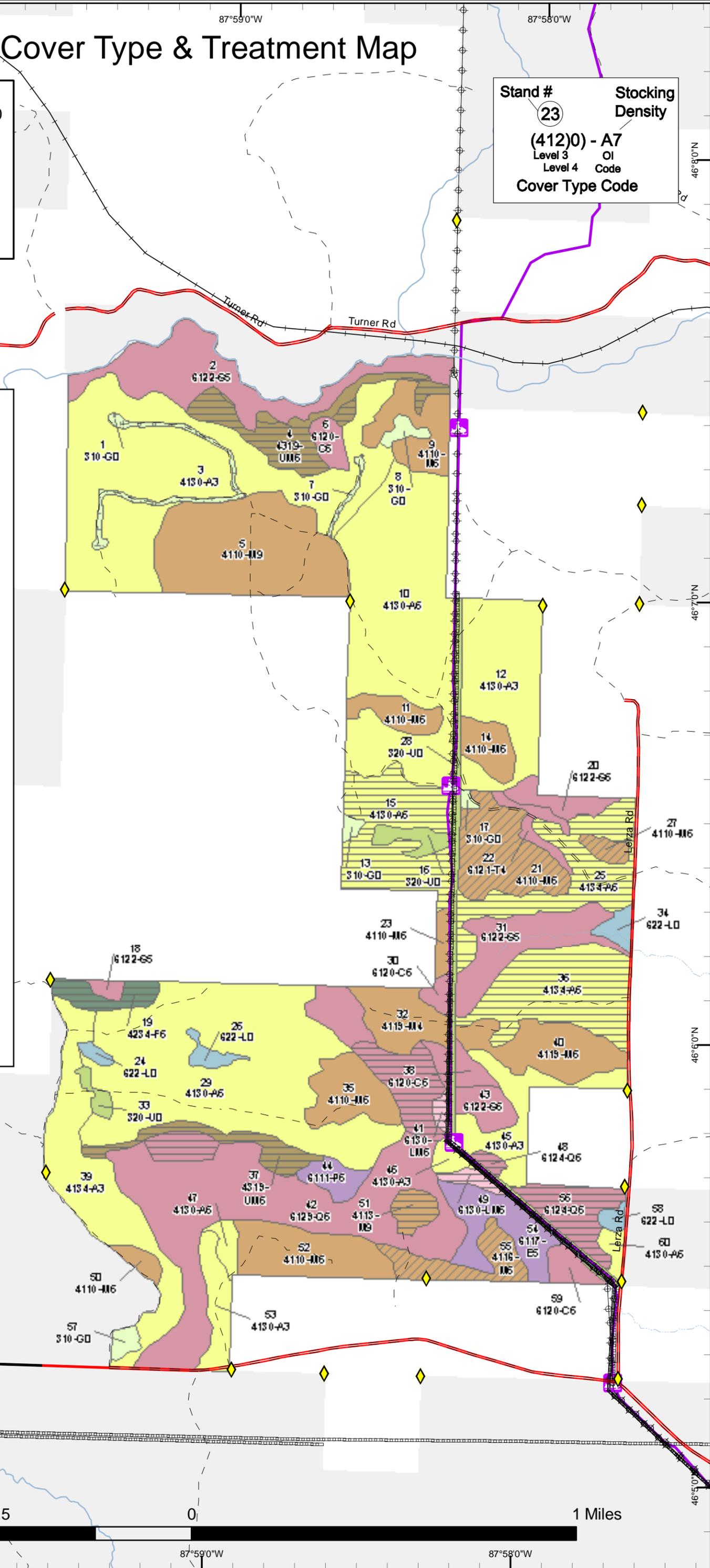
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other 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
- 622 - Lowland Shrub



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Stand Boundary Map

Compartment: 048
 T43N R29W Sections 18-20, 29, 30
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2015
 Acres: 1,451 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 06/23/14
 Map Phase: Post-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
 - Remonumented Section Corners
 - DNR Survey Grade Corners
 - PLSS Corner
 - Berms
 - Snowmobile Trails
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Closed Roads
 - Railroads
 - Pipeline
 - Powerline
 - Snowmobile Trail
 - Stream
 - Intermittent Stream
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 423 - Other 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
 - 622 - Lowland Shrub

18	
19	20
30	29

N

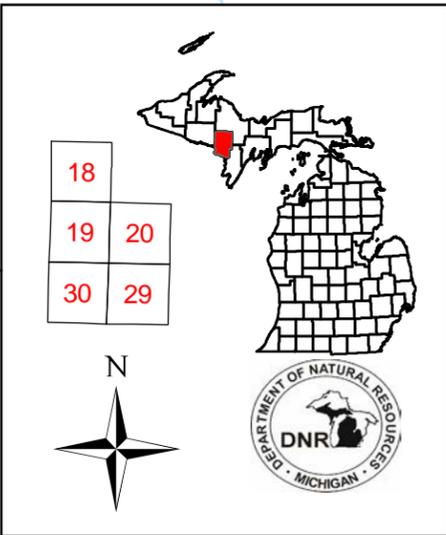


Special Conservation Areas & Site Conditions Map

Compartment: 048
 T43N R29W Sections 18-20, 29, 30
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2015
 Acres: 1,451 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 06/23/14
 Map Phase: Post-Review

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

— Miris Corners
+ Remonumented Section Corners
Site Condition Available
 Available w/ Constraints (Factor - Number)
 Unavailable (Factor - Number)
Site Condition Type
Available Factors W/ Constraints
 4A: No merchantable products (see product standards)
 5C: Delay treatment for age/size class diversity or exceptional site quality
Unavailable Factors
 2G: Too wet (sensitive soils, does not include access issues)
 3G: Other Influence zones - See comments
 3H: Deer Wintering Areas
Dedicated Special Conservation Areas
 Cold Water Streams
 High Priority Trout Stream Buffer



1 0.5 0 1 Miles

13

17

9

20

30

29

3G - 002

5C - 003
2G - 004

3H - 005

5C - 010

5C - 012

5C - 006

5C - 008

4A - 007

1 310-G0

3 4130-A3

5 4110-M9

6 6120-C6

9 4110-M6

4 4319-UM6

7 310-G0

8 310-G0

10 4130-A6

11 4110-M6

12 4130-A3

14 4110-M6

15 4130-A6

13 310-G0

16 320-U0

17 310-G0

22 6121-T4

21 4110-M6

25 4134-A6

23 4110-M6

30 6120-C6

32 4119-M4

28 320-U0

38 6120-C6

43 6130-LM6

45 4130-A3

48 6124-Q6

18 6122-S5

19 4234-F6

24 622-L0

33 320-U0

39 4134-A3

50 4110-M6

57 310-G0

26 622-L0

29 4130-A6

37 4219-UM6

44 6111-P6

53 4130-A3

35 4110-M6

38 6120-C6

41 6130-LM6

46 4130-A3

52 4110-M6

59 6120-C6

20 6122-S6

27 4110-M6

34 622-L0

36 4134-A6

40 4119-M6

49 6124-Q6

54 6117-E5

55 4116-M6

58 622-L0

60 4130-A6

Cover Type & Treatment Map

Compartment: 048
 T43N R29W Sections 18-20, 29, 30
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2015
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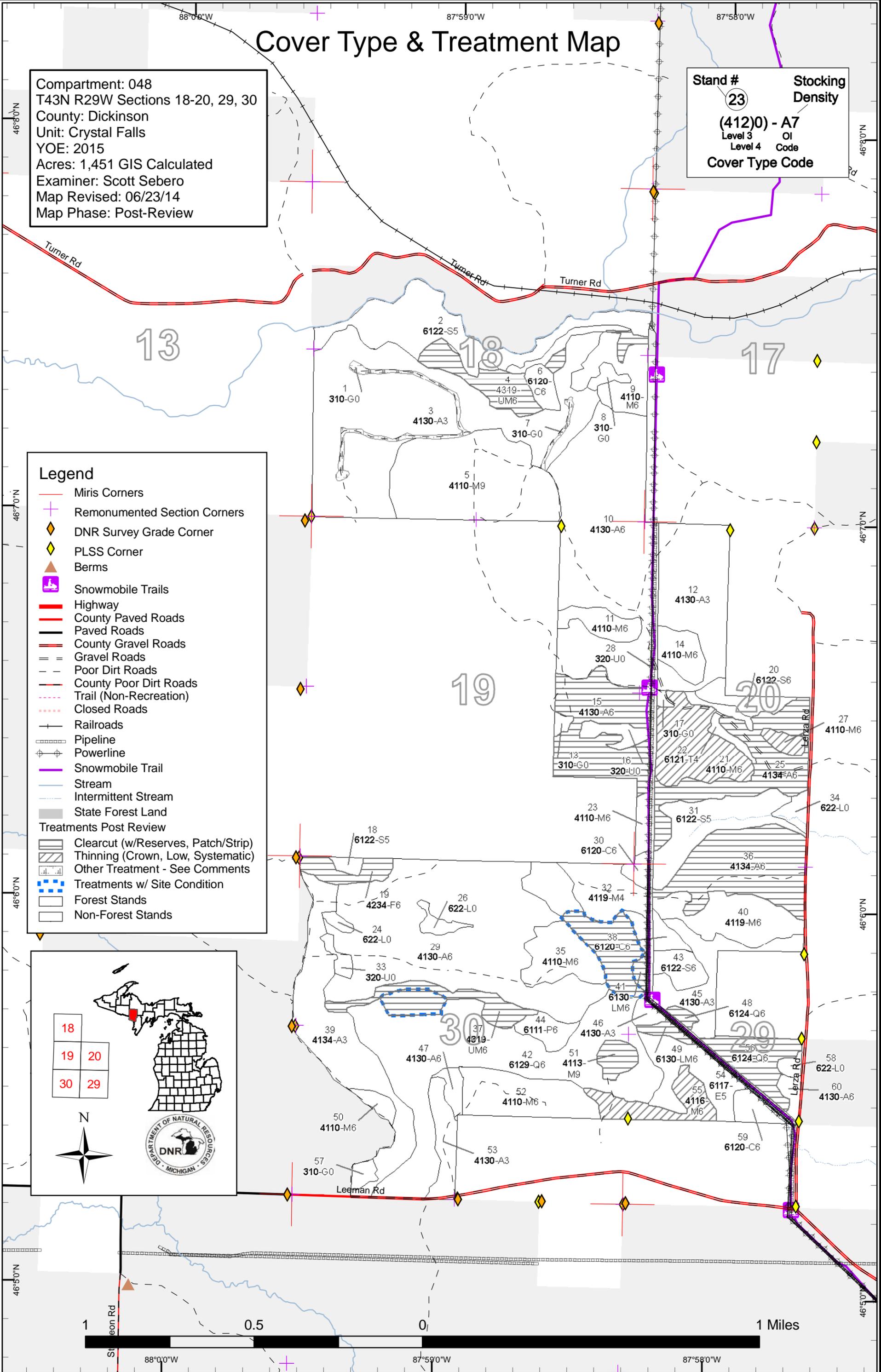
Legend

- Miris Corners
- Remonumented Section Corners
- DNR Survey Grade Corner
- PLSS Corner
- Berms
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
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- Intermittent Stream
- State Forest Land
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Other Treatment - See Comments
- Treatments w/ Site Condition
- Forest Stands
- Non-Forest Stands

18
 19 20
 30 29

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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	53	42	196	0	281	0	0	0	136	0	0	0	0	0	0	0	0	708
Cedar	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	0	498	0	0	0	0	0	0	0	0	498
Lowland Deciduous	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100
Northern Hardwood	0	0	0	0	0	0	0	0	0	282	0	0	0	0	0	0	0	0	282
Tamarack	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	42
Upland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Total	64	53	42	196	0	289	0	0	0	1123	0	1767							



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2015

Acres of Harvest

Compartment 48
Total Compartment Acres: 1,451

Commercial Harvest - 298
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 9

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	136	0	0	0	0	0	0	0	0	136
Lowland Conifers	49	0	0	0	0	0	0	0	0	49
Lowland Mixed Forest	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	7	0	0	0	55	0	0	0	0	61
Upland Mixed Forest	36	0	0	0	0	0	0	0	0	36
Upland Spruce/Fir	9	0	0	0	0	0	0	0	0	9
Total	243	0	0	0	55	0	0	0	0	298

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	298	0	0	0	0	0	9	0	0	307
Total	298	0	0	0	0	0	9	0	0	307



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	12048004-Cut	22.5	4319 - Mixed Upland Forest	Poletimber Well	85	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary

Prescription Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and
Specs: hemlock, that have one or more pulpwood sticks.

Next Step
Treatments:

Acceptable
Regen:

Other Leave 300 foot buffer on Ford River. Wildlife division will be present for line placement during sale setup. Old next step comments: Regen
Comment: survey per work constructions.

Proposed Start Date: 10/1 /2014

Site Condition: None

15	12048015-Cut	46.0	4130 - Aspen	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Prescription Cut all aspen and mixed hardwood , except oak, 2" or greater DBH, except in hardwood areas that will be marked out. Cut all mixed softwood
Specs: except, pine, cedar and hemlock, with one or more pulpwood stick. Marked out hardwood areas will be thinned to 70 BA.

Next Step
Treatments:

Acceptable
Regen:

Other Possible trespass. Old next step comments: Regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

19	12048019-Cut	9.4	42340 - Upland Spruce/Fir	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	Draft Field Boundary
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Prescription Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and
Specs: hemlock, that have one or more pulpwood stick.

Next Step
Treatments:

Acceptable
Regen:

Other Spruce fir aspen mix is acceptable regen. Old next step comments: Regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

21	12048021-Cut	33.4	4110 - Sugar Maple Association	Poletimber Well	85	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin to BA of 70 -90. Mark out and clearcut small pocket of aspen north of road. Protect submerchantable spruce and balsam.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
25	12048025-Cut	39.9	4134 - Aspen, Spruce/Fir	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and											
<u>Specs:</u> hemlock, that have one or more pulpwood stick.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: Regen survey per work constructions.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
27	12048027-Cut	4.2	4110 - Sugar Maple Association	Poletimber Well	85	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
<u>Prescription</u> Thin to a BA of 70 -90. Remove aspen, spruce and balsam first. Protect submerchantable spruce and balsam.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
36	12048036-Cut	50.1	4134 - Aspen, Spruce/Fir	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and											
<u>Specs:</u> hemlock, that have one or more pulpwood stick.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: Regen survey per work constructions.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
37	12048037-Cut	13.8	4319 - Mixed Upland Forest	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and											
<u>Specs:</u> hemlock, that have one or more pulpwood stick.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: Regen survey per work construction.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	12048041-Cut	2.1	6130 - Fir, Aspen, Maple	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	Draft Field Boundary

Prescription Cut all aspen and mixed hardwood, except oak, that are 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood stick.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

42	12048042-Cut	20.1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Draft Field Boundary
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Prescription Cut all aspen and mixed hardwood 2" or greater, except yellow birch. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood stick, except leave scattered spruce and balsam along the west edge of the treatment area. Protect submerchantable spruce, balsam and black ash.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

42	12048042-Cut- west	8.0	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Draft Field Boundary
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Prescription Cut all aspen and mixed hardwood 2" or greater. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood stick. Protect submerchantable spruce and balsam.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

48	12048048-Cut	2.1	6124 - Lowland Spruce-Fir	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary
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Prescription Cut all aspen and mixed hardwood 2" or greater. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood stick.

Next Step
Treatments:

Acceptable
Regen:

Other Spruce, fir, aspen mix is acceptable regen. Old next step comments: Regen survey per work constructions.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	12048049-Cut	3.3	6130 - Fir, Aspen, Maple	Poletimber Well	85	81-110	Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood stick.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: Regen survey per work constructions.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
51	12048051-Cut	6.8	4113 - R.Maple, Conifer	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood 2" or greater DBH. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood sticks.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: Regen survey per work constructions.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
55	12048055-Cut	17.0	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	85	111- 140	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
<u>Prescription</u> Thin to a BA of 70 - 90. Mark aspen, spruce and balsam first. Protect submerchantable spruce and balsam.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											
56	12048056-Cut	18.8	6124 - Lowland Spruce-Fir	Poletimber Well	85	51-80	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary
<u>Prescription</u> Cut all aspen and mixed hardwood 2" or greater. Cut all mixed softwood, except red and white pine, cedar and hemlock, that have one or more pulpwood sticks. Red line pockets of cedar and remove them from sale area.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Look for nest. Old next step comments: Regen survey per work constuctions.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2014											
Site Condition: None											



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	NF_12048001-Other	7.6	3102 - Grass	Nonstocked			Other	Unspcified	3105 - Mixed Upland Herbaceous	Unspecified	Draft Field Boundary

Prescription seed and maintain hunter walking trail
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

Site Condition: None

7	NF_12048007-Other	1.5	3102 - Grass	Nonstocked			Other	Unspcified	3105 - Mixed Upland Herbaceous	Unspecified	Draft Field Boundary
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Prescription seed and maintain hunter walking trail
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

Site Condition: None

**Total Treatment
 Acreage Proposed: 306.8**

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Scott Sebero : Examiner

Compartment: 48
Year of Entry: 2015

Dominant Site Conditions

	3G	3H	4A	5C
Aspen				
Cedar				
Herbaceous Openland				
Lowland Aspen/Balsam Poplar				
Lowland Conifers				389
Lowland Deciduous			24	
Lowland Mixed Forest				
Lowland Shrub				
Lowland Spruce/Fir	50	31		17
Northern Hardwood				
Tamarack				
Upland Mixed Forest				
Upland Shrub				
Upland Spruce/Fir				
Total Forested Acres	50	31	24	406
Relative Percent				

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Compartment: 48

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12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
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Comments:

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 48 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	6122 - Black Spruce	Poletimber Medium	50.2	85	1-50		
3	4130 - Aspen	Sapling Well	139.0	27	Unspecified		
4	4319 - Mixed Upland Forest	Poletimber Well	28.6	85	51-80		
5	4110 - Sugar Maple Association	Sawtimber Well	71.6	85	81-110		
6	6120 - Lowland Cedar	Poletimber Well	6.1	85	141-170		
9	4110 - Sugar Maple Association	Poletimber Well	20.4	85	81-110		
10	4130 - Aspen	Poletimber Well	123.5	44	51-80		
11	4110 - Sugar Maple Association	Poletimber Well	10.4	85	81-110		
12	4130 - Aspen	Sapling Well	52.9	3	Unspecified		
14	4110 - Sugar Maple Association	Poletimber Well	11.1	85	81-110		
15	4130 - Aspen	Poletimber Well	46.0	85	81-110	Small pocket of cedar in SW corner of stand. Trespass along west sid of stand.	
18	6122 - Black Spruce	Poletimber Medium	2.6	85	51-80		
19	42340 - Upland Spruce/Fir	Poletimber Well	9.4	85	81-110		
20	6122 - Black Spruce	Poletimber Well	8.6	85	81-110		
21	4110 - Sugar Maple Association	Poletimber Well	33.4	85	111-140		
22	6121 - Tamarack	Poletimber Poor	6.5	85	1-50		
23	4110 - Sugar Maple Association	Poletimber Well	4.3	85	51-80	looks like it was cut with private to the west.	
25	4134 - Aspen, Spruce/Fir	Poletimber Well	40.0	85	81-110		

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 48
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4110 - Sugar Maple Association	Poletimber Well	4.2	85	111-140	
29	4130 - Aspen	Poletimber Well	148.9	43	51-80	
30	6120 - Lowland Cedar	Poletimber Well	3.4	85	81-110	
31	6122 - Black Spruce	Poletimber Medium	30.7	85	1-50	
32	4119 - Mixed Northern Hardwoods	Poletimber Poor	19.4	85	1-50	
35	4110 - Sugar Maple Association	Poletimber Well	20.6	85	81-110	
36	4134 - Aspen, Spruce/Fir	Poletimber Well	50.1	85	81-110	
37	4319 - Mixed Upland Forest	Poletimber Well	13.8	85	81-110	
38	6120 - Lowland Cedar	Poletimber Well	4.7	85	81-110	
39	4134 - Aspen, Spruce/Fir	Sapling Well	57.2	28	Unspecified	
40	4119 - Mixed Northern Hardwoods	Poletimber Well	28.8	85	81-110	
41	6130 - Fir, Aspen, Maple	Poletimber Well	2.1	85	81-110	
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	159.2	85	81-110	
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	159.2	85	81-110	
42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	159.2	85	81-110	
43	6122 - Black Spruce	Poletimber Well	8.9	85	81-110	
44	6111 - Lowland Balsam Poplar	Poletimber Well	7.9	43	51-80	
45	4130 - Aspen	Sapling Well	24.9	10	Unspecified	

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 48
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4130 - Aspen	Sapling Well	3.7	10	Unspecified	
47	4130 - Aspen	Poletimber Well	4.7	43	51-80	
48	6124 - Lowland Spruce- Fir	Poletimber Well	2.1	85	81-110	leave pocket of ash on SE side of stand.
49	6130 - Fir, Aspen, Maple	Poletimber Well	3.3	85	81-110	
50	4110 - Sugar Maple Association	Poletimber Well	4.1	85	81-110	
51	4113 - R.Maple, Conifer	Sawtimber Well	6.8	85	81-110	
52	4110 - Sugar Maple Association	Poletimber Well	30.1	85	81-110	
53	4130 - Aspen	Sapling Well	13.3	18	Unspecified	
54	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	23.5	85	51-80	
55	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	17.0	85	111-140	
56	6124 - Lowland Spruce- Fir	Poletimber Well	18.8	85	51-80	
59	6120 - Lowland Cedar	Poletimber Well	6.2	85	81-110	
60	4130 - Aspen	Poletimber Well	3.8	43	51-80	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	3102 - Grass	7.6	No	
7	3102 - Grass	1.5	No	
8	3102 - Grass	3.2	No	
13	3102 - Grass	1.7	No	trespass
16	320 - Upland Shrub	6.2	No	
17	3102 - Grass	1.1	No	
24	622 - Lowland Shrub	2.0	No	
26	622 - Lowland Shrub	3.8	No	
28	3205 - Mixed Upland Shrub	23.5	No	power line
33	320 - Upland Shrub	3.3	No	
34	622 - Lowland Shrub	4.5	No	
57	3102 - Grass	3.2	No	
58	622 - Lowland Shrub	2.4	No	