



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12087

Entry Year 2015

Acreage: 1,793

County Dickinson

Management Area: Cassidy Creek

Revision Date: 2013-07-15

Stand Examiner:

Legal Description:

T41N, R28W sections 30, 31 & 32

Identified Planning Goals:

Maintain aspen type to achieve age class distribution on good aspen sites. Manage hardwood types for sawtimber production as well as maintaining diversity. Retain conifer component.

Soil and topography:

Soils are mostly sandy loam and muck. Topography is made up of rolling hills to wet bottom lands. There are some rocky areas also.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

There is fairly contiguous ownership in this compartment but there are a few private camps (80 acres within) and two forties along the edge of the compartment.

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:

Jansen's creek runs through this compartment

Wildlife Habitat Considerations:

The upland portion of this compartment was historically dominated by hemlock/white pine and sugarmaple/hemlock forest. Currently aspen occupies 60% of the compartment. Of the aspen, more than 60 percent is less than twenty years old and thus provides sufficient habitat conditions for wildlife species requiring early-successional habitats. The southern portion of this compartment was a significant deer yard historically and conditions (historic vegetation, current seed source and habitat suitability) are thus conducive for restoration which would benefit a wide variety of wildlife species that utilize this species. Stands contiguous with mixed swamp conifer stands and associated riparian zones should be protected and expanded as this zone provides critical habitat and travel corridors for a variety of wildlife species. Allowing the trees in this zone to mature would also be beneficial for a whole suite of species that depend on limited mature habitat conditions (e.g. snags, etc...). Hardwood stands scheduled for treatment should be harvested in a manner conducive to providing species diversity and structural diversity.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium over bedrock. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean granite/gneiss and Michigamme Formation outcrop beneath the glacial drift. There is not a current economic use, although the granite/gneiss might have building stone potential. The Hancock iron mine is located approximately five miles to the east. Part of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located three miles to the east and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

The Brown's Lake road accesses the Norway Truck Trail which is a county road that goes north and south through the compartment. There are some open roads and some bermed, that get into most areas of the compartment.

Survey Needs:

There are two corners on the private/state land that will have to be installed.

Recreational Facilities and Opportunities:

Hunting and fishing would be available here.

Fire Protection:

This area is somewhat accessible for fire, with the exception of berms having to be removed. Overall the occurrence of a fire in this compartment is not impossible, but not that prevalent.

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: 087
 T41N R28W Sections 30-32
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2015
 Acres: 1,797 GIS Calculated
 Examiner: Linda Lindberg
 Map Revised: 06/23/2014
 Map Phase: Post-Review

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

Legend

- PLSS Corner
- GPS Point
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments Post Review

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)

Forest Stands

Level 3

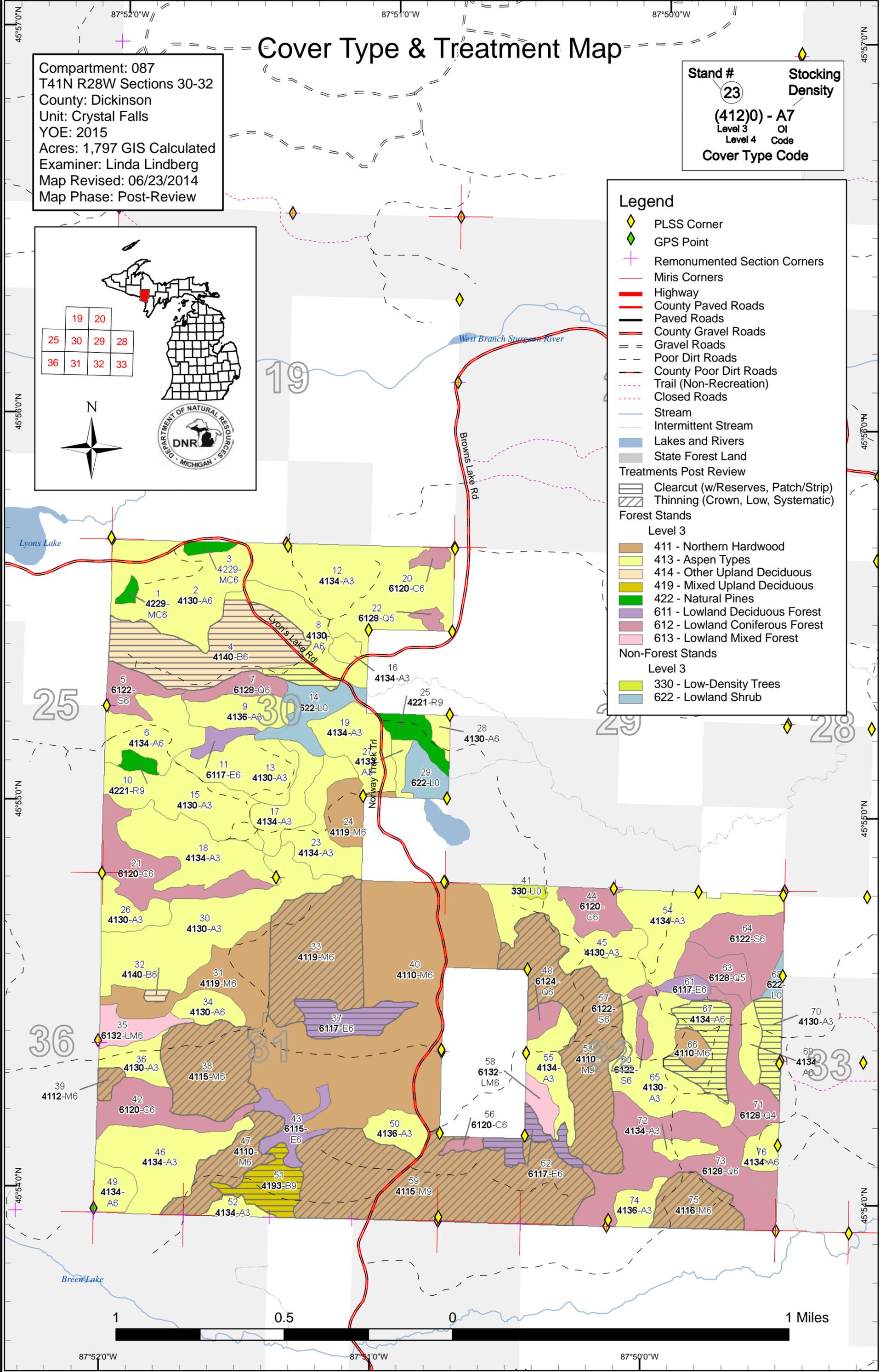
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 330 - Low-Density Trees
- 622 - Lowland Shrub

19	20		
25	30	29	28
36	31	32	33

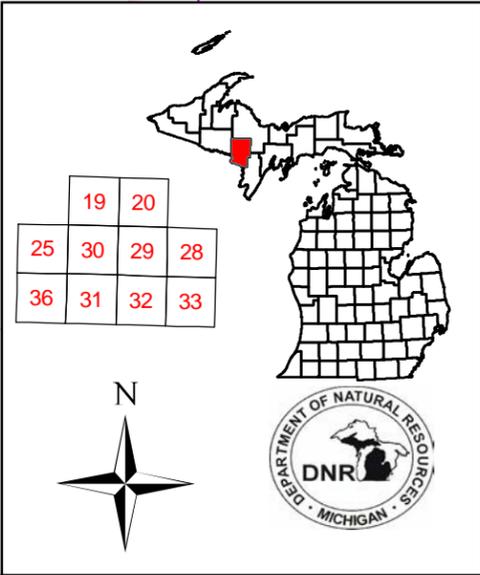


87°52'0"W 87°51'0"W 87°50'0"W

Special Conservation Areas & Site Conditions Map

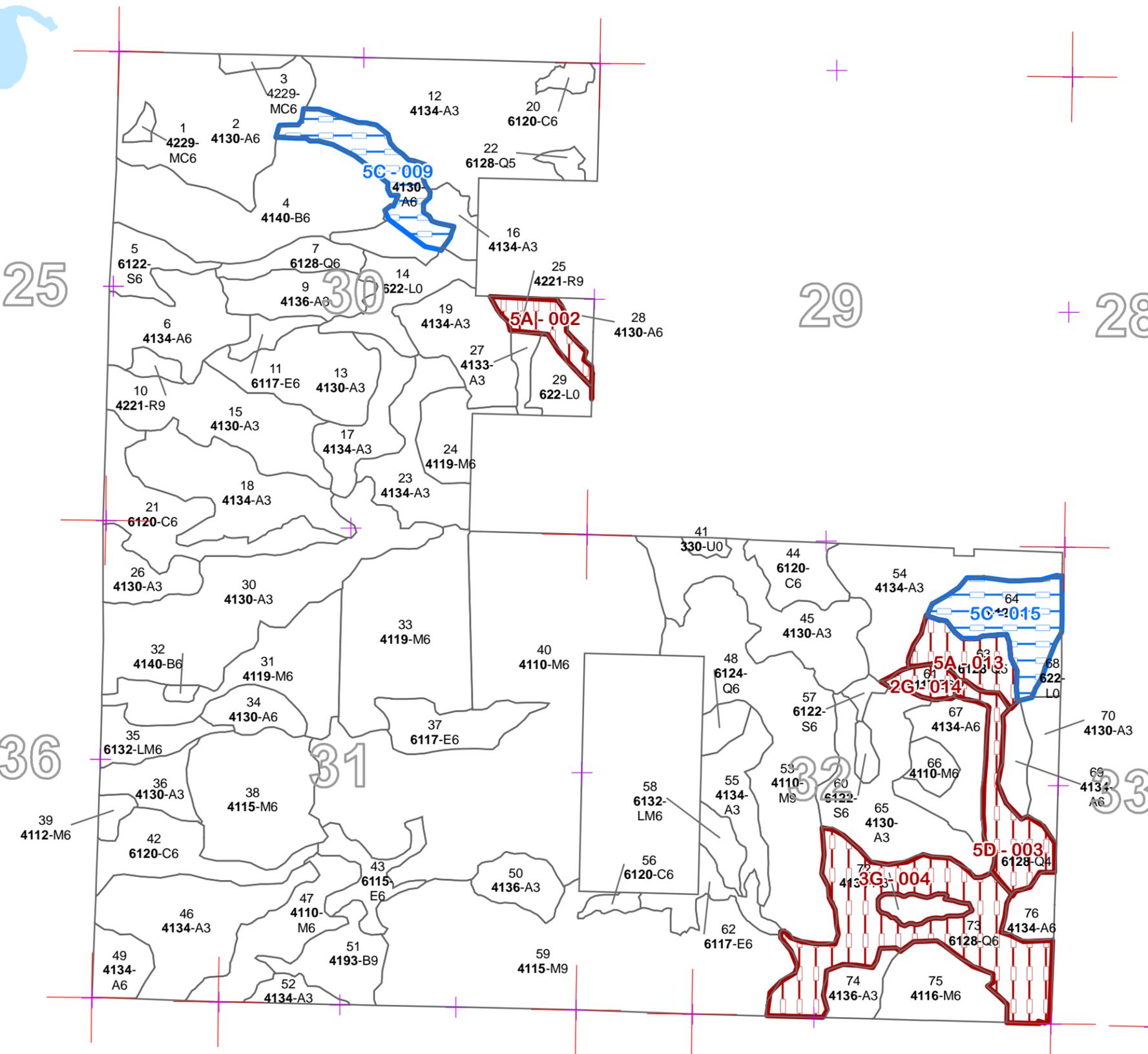
Compartment: 087
 T41N R28W Sections 30-32
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 Acres: 1,797 GIS Calculated
 Examiner: Linda Lindberg
 Map Revised: 06/23/2014
 Map Phase: Post-Review

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



Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
 - 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
 - 5A: Not able to obtain desirable regeneration
 - 5D: Unproductive Forest Land
- Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes



87°52'0"W 87°51'0"W 87°50'0"W

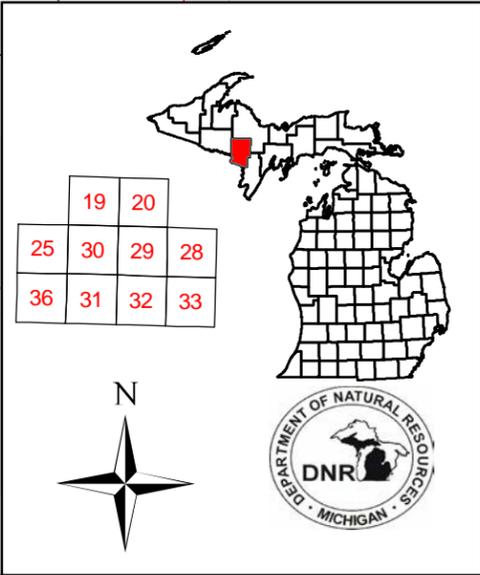
45°57'0"N
45°56'0"N
45°55'0"N
45°54'0"N

45°57'0"N
45°56'0"N
45°55'0"N
45°54'0"N

Cover Type & Treatment Map

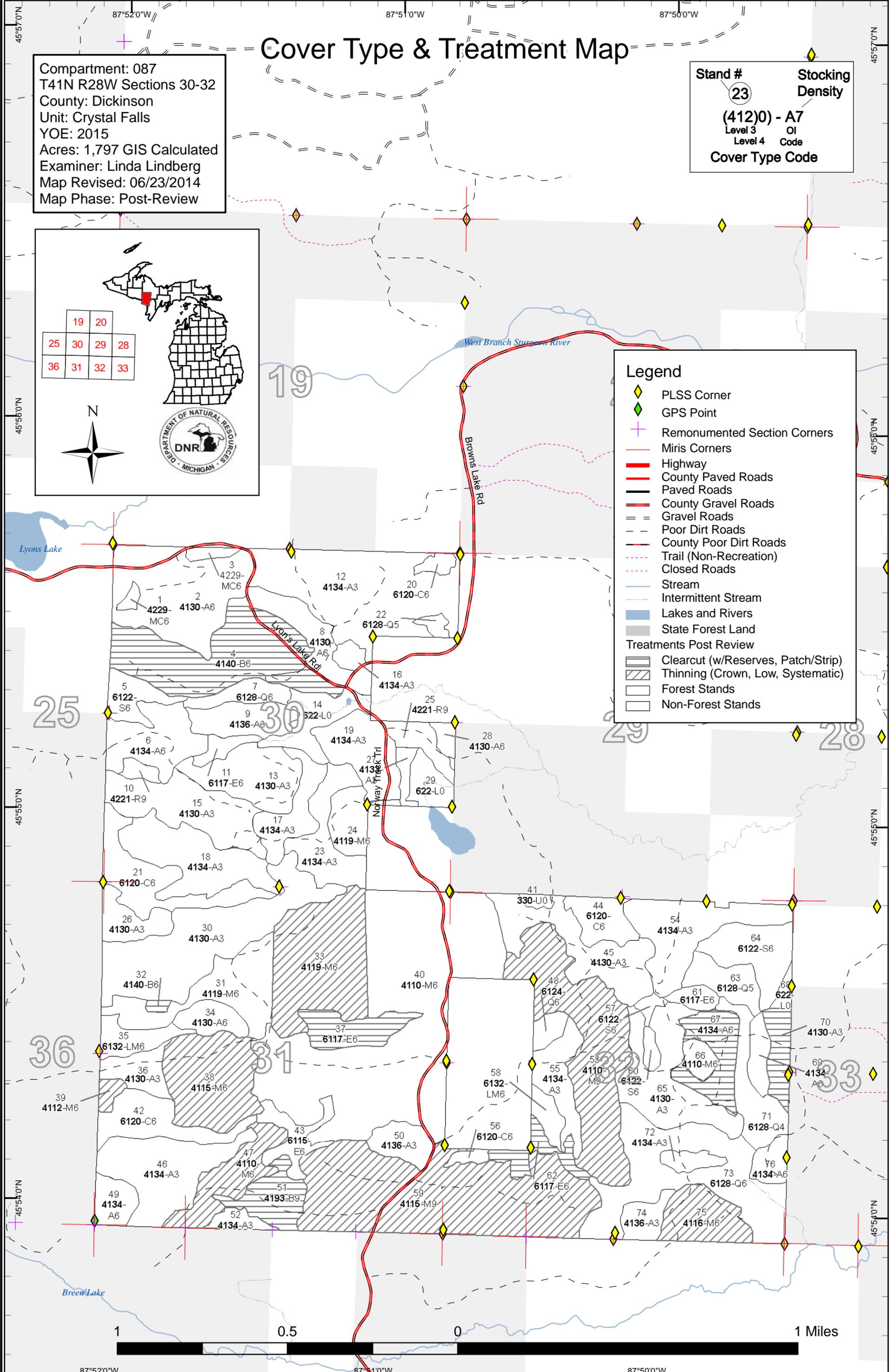
Compartment: 087
 T41N R28W Sections 30-32
 County: Dickinson
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- ◆ PLSS Corner
- ◆ GPS Point
- + Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- █ Lakes and Rivers
- █ State Forest Land
- Treatments Post Review
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Forest Stands
- Non-Forest Stands



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	214	131	299	82	0	47	0	0	0	0	0	0	0	0	0	0	0	773
Cedar	0	0	0	0	0	0	0	0	44	30	0	0	0	0	0	0	0	0	74
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	18	100	0	0	0	0	0	0	0	0	118
Lowland Deciduous	0	0	0	0	0	0	0	0	36	16	0	0	0	0	0	0	0	0	52
Lowland Mixed Forest	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	18	25	0	0	0	0	0	0	0	0	43
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	585	0	0	0	0	0	0	0	0	585
Paper Birch	0	0	0	0	0	0	0	0	60	19	0	0	0	0	0	0	0	0	79
Red Pine	0	0	0	0	0	0	0	0	9	3	0	0	0	0	0	0	0	0	12
Total	34	214	131	299	82	0	47	0	203	783	0	1793							



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2015

Acres of Harvest

Compartment 87
Total Compartment Acres: 1,793

Commercial Harvest - 497
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	21	0	0	12	0	0	0	0	0	32
Lowland Deciduous	28	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	352	0	0	0	352
Paper Birch	85	0	0	0	0	0	0	0	0	85
Total	134	0	0	12	0	352	0	0	0	497

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	497	0	0	0	0	0	0	0	0	497
Total	497	0	0	0	0	0	0	0	0	497

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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
4 12087004-Cut	66.3	4140 - Other Upland Deciduous	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	4193 - Birch, Aspen	Even-Aged	Draft Field Boundary

Prescription Cut all species that are 2 inches or more dbh except red and white pine, hemlock, cherry, cedar, elm and oak. Cut all spruce and balsam that is 6 inches in diameter at a 4 inch stump. There are quite a few rocky outcrops here that can be left when harvesting is not possible for safety reasons.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Regen check next entry
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

32 12087032-Cut	1.4	4140 - Other Upland Deciduous	Poletimber Well	87	81-110	Harvest	Clearcut with Retention	4137 - Aspen, Birch	Even-Aged	Draft Field Boundary
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Prescription This little stand was included in the hardwood last entry but is definitely birch and aspen and since we will be harvesting nearby, this can easily be accessed (by a skid road going right to it) and cut.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Regen check
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

33 12087033-Cut	61.6	4119 - Mixed Northern Hardwoods	Poletimber Well	87	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin stand to 80 BA taking out high risk trees, choose leve trees that are good crop trees and thin around them taking the surrounding competitors when the crop tree is 8 inches or less in diameter and taking the two biggest competitors in the 8 inch or greater category.

Next Step
Treatments:

Acceptable
Regen:

Other There are a few ash in this stand that can be marked according to the new regulations for ash.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
37 12087037-Cut	17.2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Draft Field Boundary

Prescription Specs: Cut all trees 2 inches or greater except red and white pine, hemlock, cedar, oak, cherry and elm. Cut all spruce and balsam that is 6 inches or greater at a 4 inch stump.

Next Step Treatments:

Acceptable Regen:

Other Comment: There are areas of cedar that will be retention in this stand. Old next step comments: Regen check

Proposed Start Date: 10/1 /2014

Site Condition: None

38 12087038-Cut	43.9	4115 - Y.Birch, Hemlock NH	Poletimber Well	87	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Specs: Thin stand to 80 BA taking out high risk trees. Chose leave trees that are good crop trees and thin around them taking the surrounding trees when the crop tree is 8 inches or less in diameter and taking the two biggest competitors in the 8 inch or greater category.

Next Step Treatments:

Acceptable Regen:

Other Comment: Old next step comments: Regen check

Proposed Start Date: 10/1 /2014

Site Condition: None

39 12087039-Cut	3.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	87	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Specs: Thin stand to 80 BA taking out the high risk trees. Chose leave trees that are good crop trees and thin around them taking the surrounding trees when the crop tree is 8 inches or less in diameter and taking the two biggest competitors in the 8 inch or greater category.

Next Step Treatments:

Acceptable Regen:

Other 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
47	12087047-Cut	23.9	4110 - Sugar Maple Association	Poletimber Well	87	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary

Prescription Thin stand to 80 BA taking out high risk trees. Choose leave trees that are good crop trees and thin around them taking the surrounding
Specs: competitors when the crop tree is less than 8 inches and the two biggest competitors when the crop tree is greater than 8 inches DBH.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

51	12087051-Cut	17.7	4193 - Birch, Aspen	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	4193 - Birch, Aspen	Even-Aged	Draft Field Boundary
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Prescription Cut all trees two inches or more in diameter leaving red and white pine, hemlock, cedar, elm, cherry, oak and all spruce and balsam that is 6
Specs: inches or less in diameter at a 4 inch stump. Leave all yellow birch also and while cruising choose a few white birch here and there for seed trees to remain in stand after harvest.

Next Step
Treatments:

Acceptable
Regen:

Other Stay out of wet areas. Old next step comments: Regen check
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

53	12087053-Cut	75.3	4110 - Sugar Maple Association	Sawtimber Well	87	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin stand to 80BA taking out high risk trees. Chose leave trees that are good crop trees and thin around those smaller than 8 inches DBH and
Specs: take the two top competitors from the crop trees that are 8 inches and greater.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 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
59 12087059-Cut	121.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	87	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary

Prescription Thin stand to 80 BA taking out high risk trees that are good crop trees and thin around them taking the top competitors around an eight inch or less dbh tree and the two biggest competitors from the crop tree greater than 8 inches.

Next Step
Treatments:

Acceptable
Regen:

Other This stand has parts that are fairly high BA and parts that are of less BA. There are also some lower areas that should be treated accordingly.
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

62 12087062-Cut	10.5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	84	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Draft Field Boundary
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Prescription Clearcut all species that are 2 inches or greater except red and white pine, cedar, hemlock, cherry, elm and oak. Cut all spruce and balsam that is greater than 6 inches at a 4 inch stump.

Next Step
Treatments:

Acceptable
Regen:

Other this stand has areas that are all cedar and that part would be left. Old next step comments: Regen check
Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

67 12087067-Cut	20.5	4134 - Aspen, Spruce/Fir	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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Prescription Cut all trees 2 inches or more in diameter except red and white pine, cedar, hemlock, oak, cherry and elm if present. Also cut all spruce and balsam greater than 6 inches at a 4 inch stump.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Regen survey
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
70	12087070- Cut_Monitor	11.5	4130 - Aspen	Sapling Well	2	Unspec ified	Harvest	Seed Tree	4134 - Aspen, Spruce/Fir	Unspecified	Field Boundary

PrescriptionSpecs:Next StepTreatments:AcceptableRegen:

Other This stand has already been put up for harvest with the adjoining compartment. Old next step comments: Monitor regen per next inventory cycle
Comment:

Proposed Start Date: 10/1 /2022

Site Condition: None

75	12087075-Cut	21.9	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	87	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin stand to 80 BA taking out high risk trees. Choose leave trees that are good crop trees and thin around them taking all or most of the
Specs: competitors if the tree is 8 inches or less DBH and the two main competitors if the DBH is 8 inches or greater DBH

Next StepTreatments:AcceptableRegen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2014

Site Condition: None

**Total Treatment
Acreage Proposed: 497.0**

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
Total Forested Acres	65	23	44	19
Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand has been harvested and the aspen was taken out and the pine is the residual and it is good like that.							
3	Unavailable	5D: Unproductive Forest Land	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This has scattered trees and would not be worth harvesting and there is a culvert so I assume a creek runs through some time.							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

4	Unavailable	3G: Other Influence zones - See comments	65	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
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3	Unavailable	5D: Unproductive Forest Land	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This has scattered trees and would not be worth harvesting and there is a culvert so I assume a creek runs through some time.							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

4	Unavailable	3G: Other Influence zones - See comments	65	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
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2	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand has been harvested and the aspen was taken out and the pine is the residual and it is good like that.							
3	Unavailable	5D: Unproductive Forest Land	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This has scattered trees and would not be worth harvesting and there is a culvert so I assume a creek runs through some time.							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

4	Unavailable	3G: Other Influence zones - See comments	65	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
Total Forested Acres	65	23	44	19
Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand has been harvested and the aspen was taken out and the pine is the residual and it is good like that.							
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Comments: This has scattered trees and would not be worth harvesting and there is a culvert so I assume a creek runs through some time.							

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Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
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Comments:							
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Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
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Paper Birch				
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Comments:							
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Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
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Comments: creek running through							
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Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
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Relative Percent				

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Report 5 – Site Conditions

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Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Crystal Falls Mgt. Unit
Linda Lindberg : Examiner

Compartment: 87
Year of Entry: 2015

Dominant Site Conditions

	3G	5A	5C	5D
Aspen			19	
Cedar				
Low-Density Trees				
Lowland Conifers	65	14		19
Lowland Deciduous				
Lowland Mixed Forest				
Lowland Shrub			0	
Lowland Spruce/Fir			24	
Natural Mixed Pines				
Northern Hardwood				
Paper Birch				
Red Pine		9		
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Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
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Report 5 – Site Conditions

Crystal Falls Mgt. Unit
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Compartment: 87
Year of Entry: 2015

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Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of the tamarack is dead and scattered							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: creek running through							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 87 Year of Entry: 2015
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Poletimber Well	1.9	89	81-110	This is a rock. Inoperable.
2	4130 - Aspen	Poletimber Well	58.8	27	Unspecified	4-6 inch aspen, a few conifers.
3	42290 - Natural Mixed Pine	Poletimber Well	3.1	89	51-80	rock top. inoperable.
4	4140 - Other Upland Deciduous	Poletimber Well	59.7	79	51-80	This stand should be cut. There are some rocky places that will be inoperable.
5	6122 - Black Spruce	Poletimber Well	12.2	79	51-80	Creek runs through stand.
6	4134 - Aspen, Spruce/Fir	Poletimber Well	28.0	38	Unspecified	
7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.1	79	81-110	Creek runs through stand.
8	4130 - Aspen	Poletimber Well	25.8	50	51-80	hold until next year of entry
9	4136 - Aspen, Mixed Conifer	Sapling Well	17.6	18	Unspecified	
10	42210 - Natural Red Pine	Sawtimber Well	3.5	86	Unspecified	up on a rock and not accessible
11	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.3	79	51-80	
12	4134 - Aspen, Spruce/Fir	Sapling Well	78.9	27	Unspecified	Many rocks in stand. Rock tops have some conifer and aspen left. Most of stand 2-3 inch aspen.
13	4130 - Aspen	Sapling Well	29.3	28	Unspecified	
15	4130 - Aspen	Sapling Well	38.2	7	Unspecified	
16	4134 - Aspen, Spruce/Fir	Sapling Well	7.1	17	Unspecified	
17	4134 - Aspen, Spruce/Fir	Sapling Well	17.9	7	Unspecified	
18	4134 - Aspen, Spruce/Fir	Sapling Well	38.7	15	Unspecified	Rocky, rock bluffs
19	4134 - Aspen, Spruce/Fir	Sapling Well	26.0	8	Unspecified	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6120 - Lowland Cedar	Poletimber Well	3.6	79	51-80	Lots of tag alder.
21	6120 - Lowland Cedar	Poletimber Well	30.4	80	81-110	Mostly cedar. Creek runs through. Some of the non cedar areas have been cut with not much regen.
22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	2.8	74	Unspecified	Old but small diameter, 2-6 inches and 20-25 feet tall.
23	4134 - Aspen, Spruce/Fir	Sapling Well	24.4	38	Unspecified	
24	4119 - Mixed Northern Hardwoods	Poletimber Well	14.0	87	51-80	Ironwood regeneration, leatherwood.
25	42210 - Natural Red Pine	Sawtimber Well	9.5	74	51-80	This stand was cut 8 years ago. Aspen removed, pine thinned. Red, white and jack pine, oak residual.
26	4130 - Aspen	Sapling Well	13.2	15	Unspecified	conifers mostly on south edge.
27	4133 - Aspen, Mixed Pine	Sapling Well	4.2	27	Unspecified	
28	4130 - Aspen	Poletimber Well	3.8	38	Unspecified	Red pine inclusion on right side of road.
30	4130 - Aspen	Sapling Well	70.2	6	Unspecified	Lots of cedar sprigs. Rock outcrop inclusions.
31	4119 - Mixed Northern Hardwoods	Poletimber Well	35.9	87	51-80	
32	4140 - Other Upland Deciduous	Poletimber Well	1.4	87	81-110	
33	4119 - Mixed Northern Hardwoods	Poletimber Well	61.5	87	111-140	Some areas very thick, some very thin. More white birch in the south, looks good but old and large and should be cut. Beech and black ash on south of stand.
34	4130 - Aspen	Poletimber Well	10.5	38	Unspecified	Aspen and hardwood regeneration throughout.
35	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	11.5	79	81-110	More cedar in middle of stand.
36	4130 - Aspen	Sapling Well	12.5	15	Unspecified	
37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.2	79	51-80	B. ash understory regeneration.



Stand	Crystal Falls Mgt. Unit		Report 8 – Forested Stands			Compartment: 87 Year of Entry: 2015
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4115 - Y.Birch, Hemlock NH	Poletimber Well	43.9	87	111-140	A few spruce in understory.
39	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.6	87	111-140	
40	4110 - Sugar Maple Association	Poletimber Well	176.9	87	51-80	Ironwood 3-5 feet tall everywhere.
42	6120 - Lowland Cedar	Poletimber Well	23.5	79	141-170	Some areas 100% cedar, then b. ash then mixed. Grassy where ther is more black ash.
43	6115 - Lowland Ash	Poletimber Well	13.1	79	Unspecified	Ash swale.
44	6120 - Lowland Cedar	Poletimber Well	13.9	79	51-80	
45	4130 - Aspen	Sapling Well	38.1	25	Unspecified	Hemlock and a few other conifers. Hilly.
46	4134 - Aspen, Spruce/Fir	Sapling Well	42.3	16	Unspecified	Scattered clumps of conifers.
47	4110 - Sugar Maple Association	Poletimber Well	23.9	87	111-140	
48	6124 - Lowland Spruce- Fir	Poletimber Well	5.2	79	51-80	
49	4134 - Aspen, Spruce/Fir	Poletimber Well	10.2	38	Unspecified	
50	4136 - Aspen, Mixed Conifer	Sapling Well	11.7	5	Unspecified	
51	4193 - Birch, Aspen	Sawtimber Well	17.7	87	81-110	Plan to look at this stand with TMS to determine if a cut is recommended. May want to take out paper birch.
52	4134 - Aspen, Spruce/Fir	Sapling Well	5.3	38	Unspecified	
53	4110 - Sugar Maple Association	Sawtimber Well	75.3	87	111-140	
54	4134 - Aspen, Spruce/Fir	Sapling Well	38.1	8	Unspecified	
55	4134 - Aspen, Spruce/Fir	Sapling Well	18.2	27	Unspecified	
56	6120 - Lowland Cedar	Poletimber Well	2.8	79	81-110	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	6122 - Black Spruce	Poletimber Well	2.6	79	51-80	
58	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.6	79	81-110	
59	4115 - Y.Birch, Hemlock NH	Sawtimber Well	122.0	87	111-140	Heavy sedge. Aspen, oak and hemlock present.
60	6122 - Black Spruce	Poletimber Well	3.1	79	Unspecified	
61	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.3	82	81-110	This has a lot of Black Ash but other species as well . My concern is the culvert by the road and if there is a creek here or not.
62	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.6	84	81-110	Lots of blowdown. Spruce and other regeneration present.
63	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	14.2	82	51-80	This is scattered and there is a lot of tag alder in here.
64	6122 - Black Spruce	Poletimber Well	24.5	82	81-110	A lot of blowdown. Spruce/fir regen.
65	4130 - Aspen	Sapling Well	41.3	25	Unspecified	
66	4110 - Sugar Maple Association	Poletimber Well	6.0	87	81-110	
67	4134 - Aspen, Spruce/Fir	Poletimber Well	20.8	54	51-80	
69	4134 - Aspen, Spruce/Fir	Poletimber Well	7.8	25	Unspecified	
70	4130 - Aspen	Sapling Well	11.5	2	Unspecified	Stand harvested 11/12/13 with Hingsight Aspen sale #12-013-11-01.
71	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	19.7	81	Unspecified	
72	4134 - Aspen, Spruce/Fir	Sapling Well	5.7	20	Unspecified	
73	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	66.4	89	51-80	
74	4136 - Aspen, Mixed Conifer	Sapling Well	9.1	20	Unspecified	

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 87
Year of Entry: 2015



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	21.9	87	111-140	Some blown down and ddead, lots of cankers.
76	4134 - Aspen, Spruce/Fir	Poletimber Well	7.7	25	Unspecified	



Stand	Cover Type	Acres	Managed Site	General Comments:
14	6220 - Alder/willow	18.6	No	
29	6220 - Alder/willow	10.1	No	
41	3302 - Low Density Conifer Trees	2.2	No	
68	6220 - Alder/willow	2.9	No	