



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12105

Entry Year 2015

Acreage: 1,687

County Dickinson

Management Area: Cassidy Creek

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**Revision Date:** 2013-07-15

**Stand Examiner:**

**Legal Description:**

T40N,R29W sections 23, 26 & 35

**Identified Planning Goals:**

To maintain the aspen type and continue to work on age class diversity, improve northern hardwood stands and the large amount of forest diversity that just abounds in this compartment. Also, to preserve and improve the recreational value here. Since this compartment is close to Norway and the Norway Truck trail has been vastly improved, this compartment gets a lot of trapping, hunting, fishing and trail use.

**Soil and topography:**

Soils are predominantly Emmet-rock outcrop and 6-18% slope with rolling hills and rock outcrops.

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

This compartment is solid state land with some private land on the edges of the compartment.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

**Special Management Designations or Considerations:**

There was a tornado that passed through here in September of 2002, 80 acres was chosen for harvest. Some areas were left for wildlife and compaction reasons at the time.

**Watershed and Fisheries Considerations:**

Fern Creek runs along the western edge of this compartment and is a trout stream.

**Wildlife Habitat Considerations:**

This compartment was historically dominated by Hemlock/White Pine forests. Aspen now represents more than 50% of the compartment. The presence of interspersed lowland conifer and lowland hardwoods stands and their associated transition zones make this area diverse and provides food and cover for deer, bear, and migratory songbirds. An active goshawk nest is located in the southern portion of stand 40 which was present 10 years ago. Mature forest conditions are necessary to provide adequate habitat requirements for this species.

**Mineral Resource and Development Concerns and/or Restrictions**

**Vehicle Access:**

There are many forest roads accessing this compartment. Some are open and some are bermed.

**Survey Needs:**

Some corners will be needed in the south of the compartment

**Recreational Facilities and Opportunities:**

There are old and new ORV trails in this compartment

**Fire Protection:**

Berms will be the biggest issue to get back into some areas here and steep topography could be a problem in some areas of the compartment. There is a pine component here but mostly mixed pine and not as conducive to fire as a plantation would be.

**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**

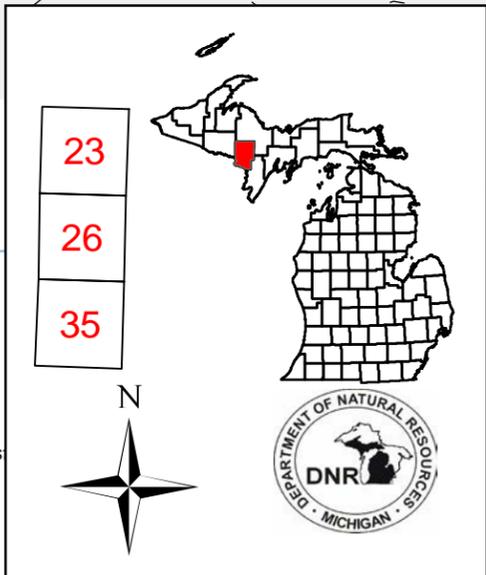
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

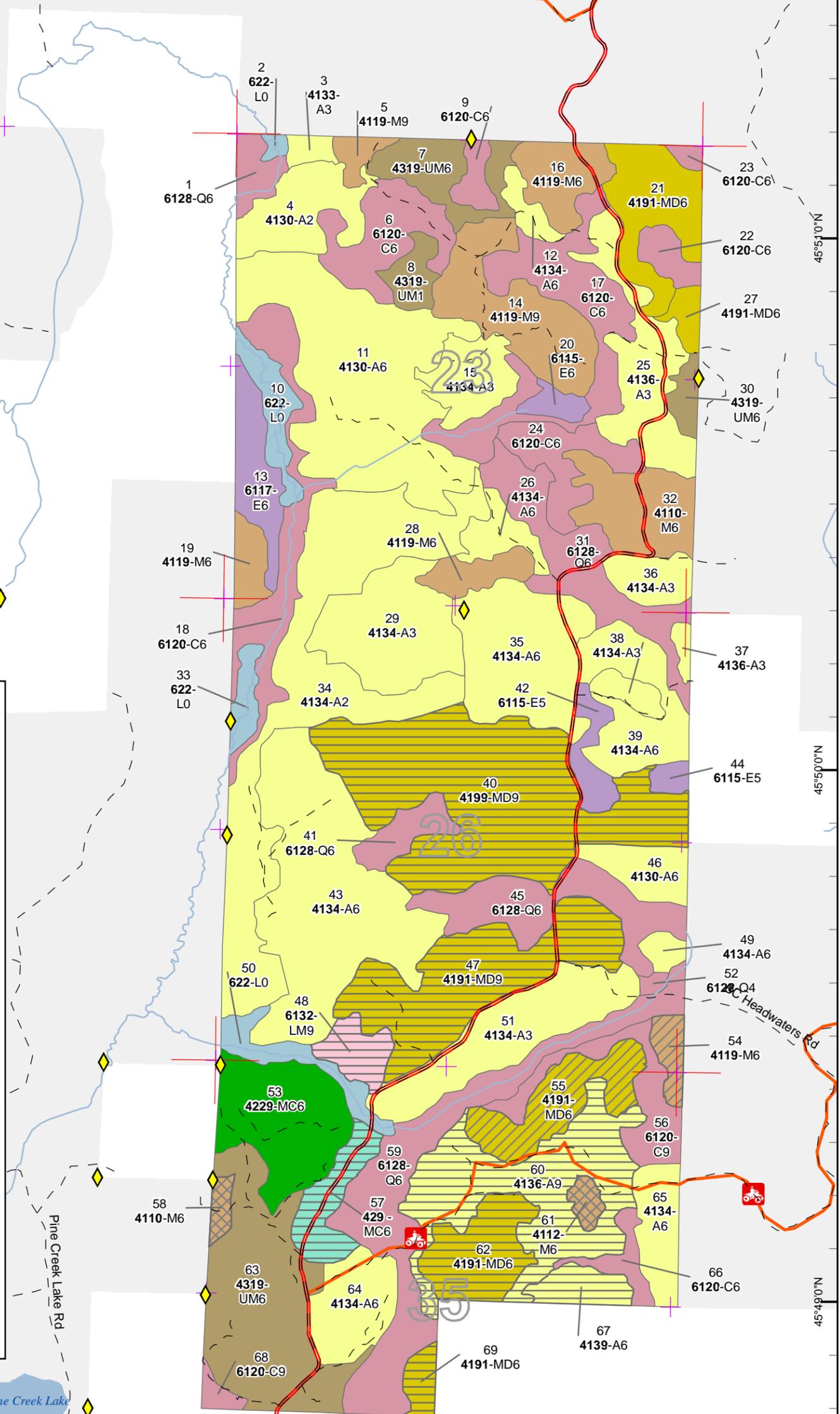
Compartment: 105  
 T40N R29W, Sections 23, 26, 35  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2015  
 Acres: 1,688 GIS Calculated  
 Examiner: Linda Lindberg  
 Map Revised: 06/23/2014  
 Map Phase: Post-Review

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



## Legend

- ✚ Remonumented Section Corners
- Miris Corners
- ◆ Survey Grade
- ◇ Non-Survey Grade
- ORV Trails
- County Gravel Roads
- Poor Dirt Roads
- ORV Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments Post Review
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Forest Stands
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands
- Level 3
- 622 - Lowland Shrub



87°53'0"W 87°52'0"W 87°51'0"W

45°51'0"N  
45°50'0"N  
45°49'0"N

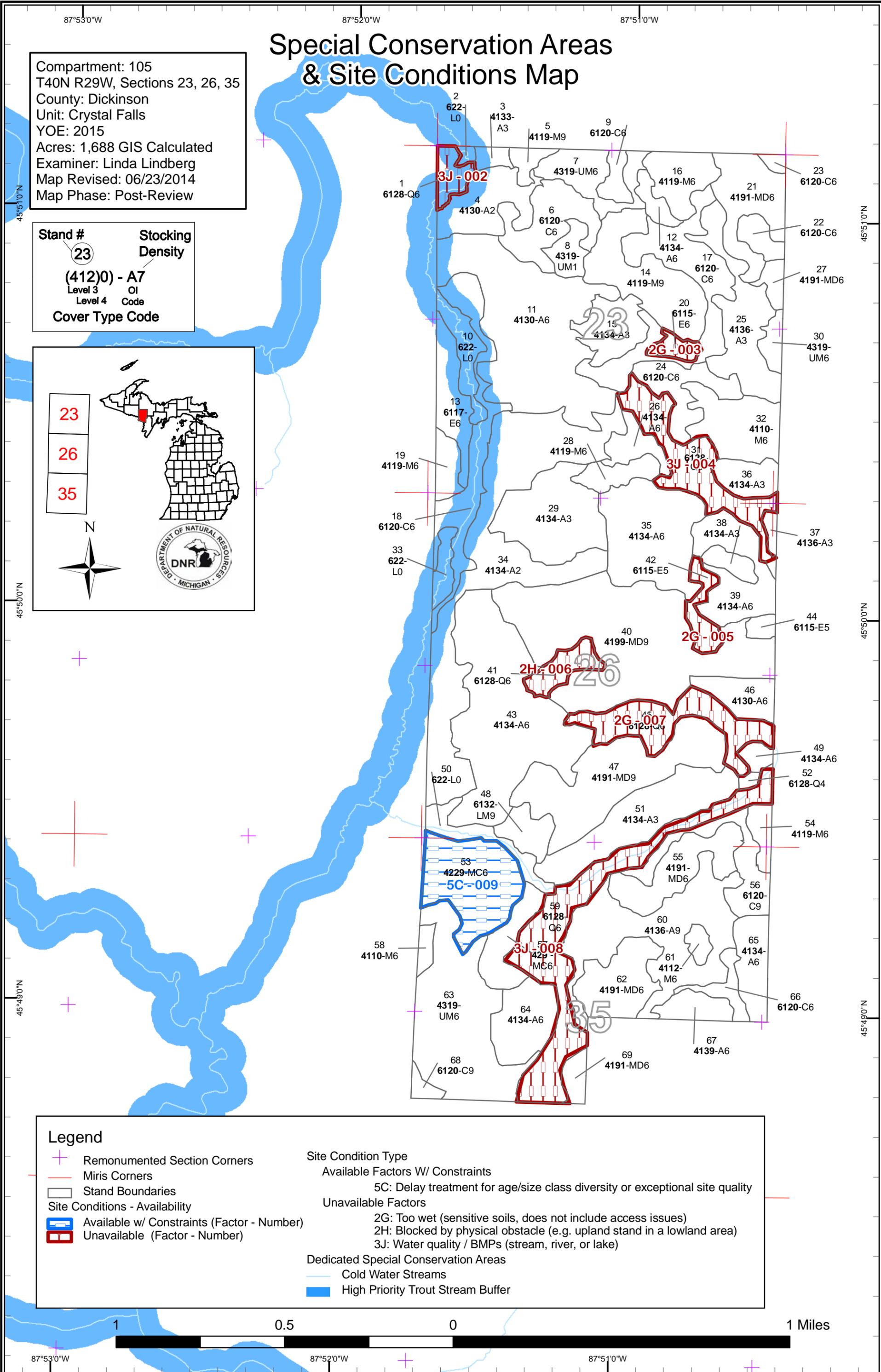
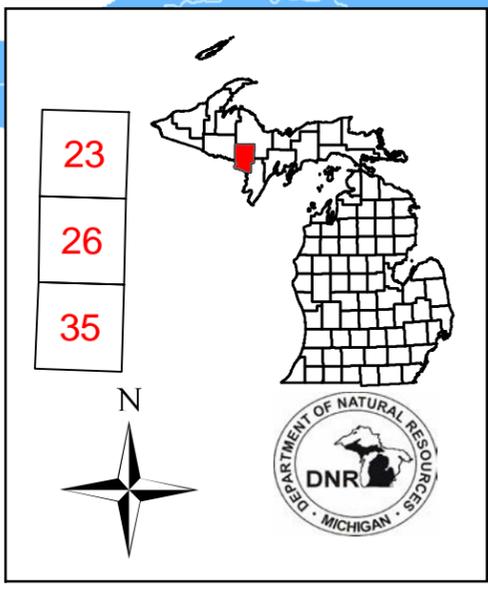
45°51'0"N  
45°50'0"N  
45°49'0"N



# Special Conservation Areas & Site Conditions Map

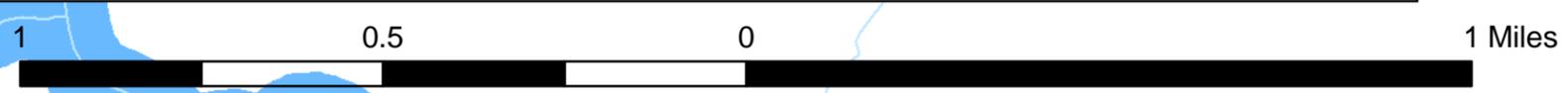
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**Legend**

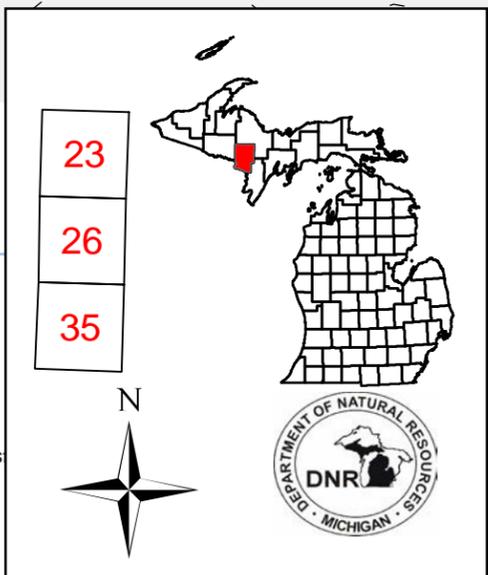
- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Conditions - Availability
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 5C: Delay treatment for age/size class diversity or exceptional site quality
  - Unavailable Factors
    - 2G: Too wet (sensitive soils, does not include access issues)
    - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
    - 3J: Water quality / BMPs (stream, river, or lake)
- Dedicated Special Conservation Areas
  - Cold Water Streams
  - High Priority Trout Stream Buffer



# Cover Type & Treatment Map

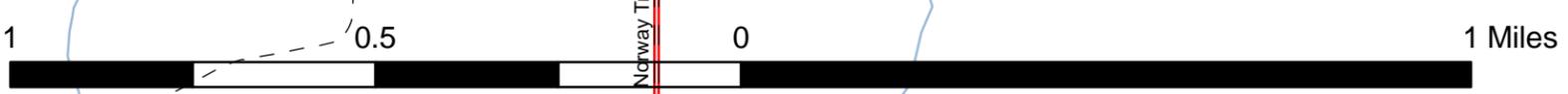
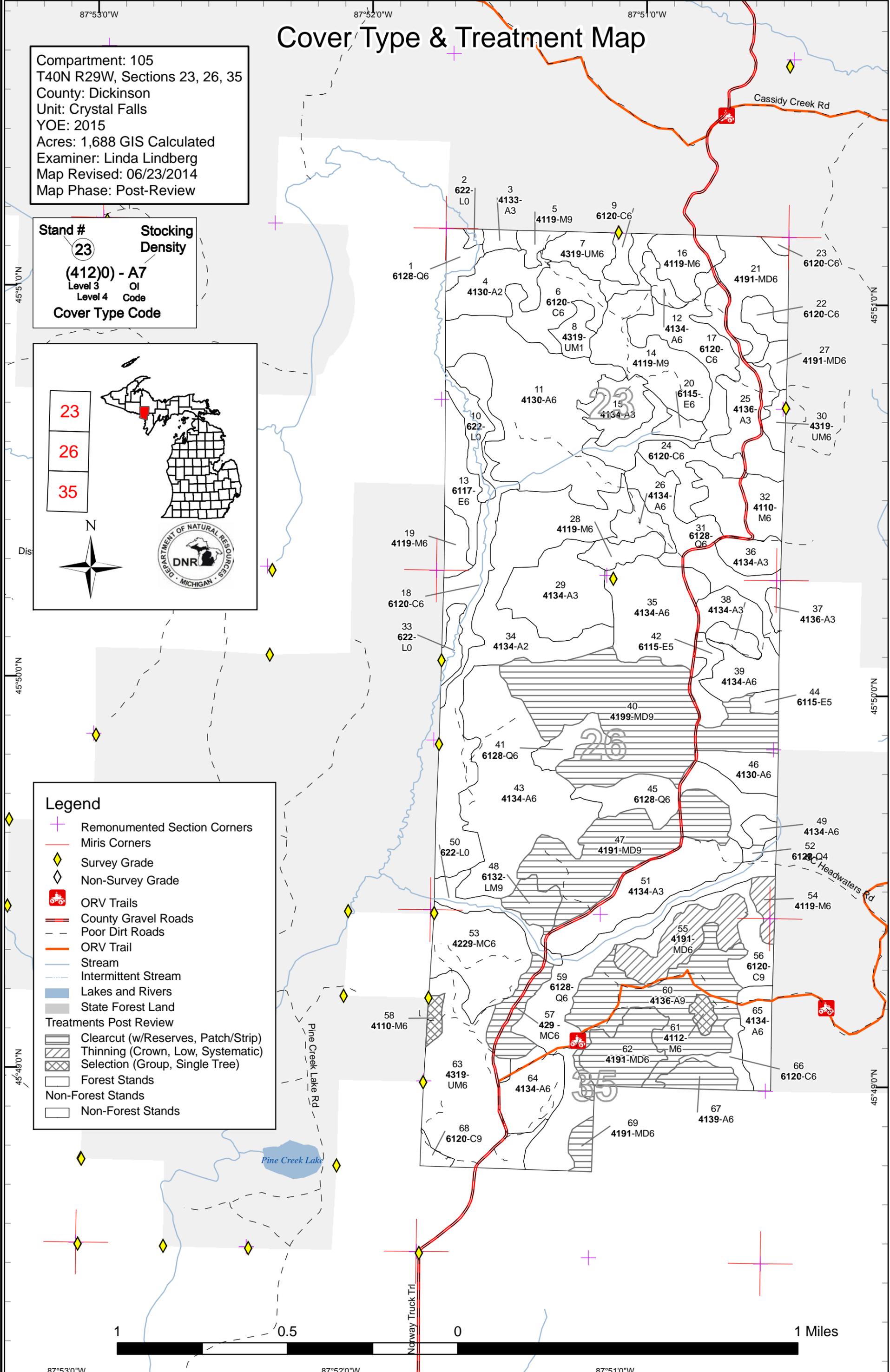
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 Map Revised: 06/23/2014  
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**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- ✚ Remonumented Section Corners
- ✚ Miris Corners
- ◆ Survey Grade
- ◇ Non-Survey Grade
- ORV Trails
- County Gravel Roads
- Poor Dirt Roads
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- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments Post Review
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Forest Stands
- Non-Forest Stands
- Non-Forest Stands



87°53'0"W 87°52'0"W 87°51'0"W

45°51'0"N  
45°50'0"N  
45°49'0"N

45°51'0"N  
45°50'0"N  
45°49'0"N



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	203	122	135	183	0	0	0	0	77	0	0	0	0	0	0	0	0	720
Cedar	0	0	0	0	0	0	0	0	20	0	147	6	0	0	0	0	0	0	173
Lowland Conifers	0	0	0	0	0	0	0	0	0	36	119	0	0	0	0	0	0	0	155
Lowland Deciduous	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Lowland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	26	242	6	0	0	0	0	0	0	0	274
Natural Mixed Pines	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	42
Northern Hardwood	0	0	0	0	0	0	0	0	0	123	0	0	0	0	0	0	0	0	123
Upland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	8	0	0	6	0	0	0	0	20	71	0	0	0	0	0	0	0	105
<b>Total</b>	<b>34</b>	<b>211</b>	<b>122</b>	<b>135</b>	<b>189</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>46</b>	<b>421</b>	<b>465</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1689</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2015

Acres of Harvest

Compartment 105  
Total Compartment Acres: 1,687

Commercial Harvest - 357  
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	77	0	0	0	0	0	0	0	0	77
Lowland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	212	0	0	0	27	0	0	0	0	239
Northern Hardwood	0	8	0	0	7	0	0	0	0	14
Upland Conifers	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>316</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	357	0	0	0	0	0	0	0	0	357
<b>Total</b>	<b>357</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357</b>

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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
40 12105040-Cut	118.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

Prescription Cut all trees 2 inches or more in diameter except red and white pine, cedar, hemlock, oak, cherry and elm. Also save beech, yellow birch and submerchantable spruce and balsam.

Next Step  
Treatments:

Acceptable  
Regen:

Other There are plenty of wet areas and rock outcrops that can be used for retention. Old next step comments: Regen survey after harvest.  
Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

47 12105047-Cut	61.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	81	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Prescription Harvest all species except, red & white pine, cedar, hemlock, oak and cherry. Cut all spruce and balsam that are 6 inches or larger at a 4 inch stump.

Next Step  
Treatments:

Acceptable  
Regen:

Other There are wet patches and rock outcrops that will be more than enough for retention. Old next step comments: Regen survey after harvest  
Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

48 12105048-Cut	10.7	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	6132 - Mixed Lowland Forest with Cedar	Even-Aged	Draft Field Boundary
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Prescription Harvest all species with the exception of red and white pine, cedar, hemlock, cherry, oak and elm. Cut all spruce and balsam that is 6 inches or greater at a 4 inch stump.

Next Step  
Treatments:

Acceptable  
Regen:

Other Retain Cedar areas as solid retention areas. 100' buffer along creek Old next step comments: Regen survey after harvest  
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
54 12105054-Cut	6.7	4119 - Mixed Northern Hardwoods	Poletimber Well	87	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary

Prescription Mark to retain 80-90 BA. This stand is small and has steep portions to it and could be cut with the rest of the stand next compartment to the east  
Specs: but since we are cutting stand 55, we could also cut 54 if the creek between the two stands is handled correctly. Discriminate against white ash, but leave best tree in place also retaining red and white pine, cedar, hemlock, elm and oak. Also leave cherry as it is not common in these stands.

Next Step  
Treatments:

Acceptable  
Regen:

Other This will have as much left which is rock bluff as there is to cut.

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

55 12105055-Cut	27.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	87	111-140	Harvest	Crown Thinning	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Prescription Mark to retain 80-90 BA focusing on retaining crop trees and discriminating against white ash. Leave the best tree in place keeping the diversity  
Specs: of the stand. Take most of the aspen but leave some for soft snags. Leave all red and white pine, cedar, hemlock, oak, elm and cherry.

Next Step  
Treatments:

Acceptable  
Regen:

Other There will be wet areas and rock bluffs for retention. 100' buffer along creek.

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

57 12105057-Cut	16.0	429 - Mixed Upland Conifers	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	Draft Field Boundary
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Prescription Take out all species except red and white pine, cedar, hemlock, oak, elm and cherry. Be extremely mindful of white pine regeneration. The goal  
Specs: is to release the regen and keep the mature trees for seed trees for areas not yet regenerated. Other species are for diversity in the stand.

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments: Regen survey after harvest

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
58	12105058-Cut	3.7	4110 - Sugar Maple Association	Poletimber Well	87	111- 140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	Draft Field Boundary

Prescription Mark to retain 80-90 BA putting in occasional canopy gaps and focusing on best tree in place, leaving crop trees with good spacing and focusing  
Specs: to harvest white ash which has a presence in the stand.

Next Step  
Treatments:

Acceptable  
Regen:

Other This stand could be cut with the stand in the next compartment of which this is a part of. The stand in the next compartment is a much larger  
Comment: stand and this can be cut with that in 2020. Old next step comments: Regen survey needed after harvest

Proposed Start Date: 10/1 /2014

**Site Condition: None**

60	12105060-Cut	67.3	4136 - Aspen, Mixed Conifer	Sawtimber Well	90	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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Prescription This area will have many reserve areas that are too numerous to delineate out but can have the mature aspen and spruce and balsam taken  
Specs: out. There are wet areas and rock that will be left for retention along with the red and white pine, cedar, hemlock, elm, oak and cherry. Most of the area has stream buffer and other wet areas and rock bluff.

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments: Regen survey after harvest.  
Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

61	12105061-Cut	3.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	87	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven- Aged	Draft Field Boundary
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Prescription Mark to retain 80-90 BA, creating some canopy gaps. This is a hillside stand also and will have to be marked accordingly to access wood.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other There are some large aspen in this stand. Some can be left for soft snags but some should be cut, especially to regenerate for diversity. Old  
Comment: next step comments: Regen survey after harvest.

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
62	12105062-Cut	25.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	77	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

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

Next Step  
Treatments:

Acceptable  
Regen:

Other As with others in this compartment, there is wet and rock bluffs that will more than cover the retention specification. Old next step comments:  
Comment: Regen survey after harvest

Proposed Start Date: 10/1 /2014

**Site Condition: None**

67	12105067-Cut	9.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Prescription Harvest all species with the exception of red and white pine, cedar, hemlock,oak, elm and cherry. Cut all spruce and balsam that is 6 inches or  
Specs: more in diameter at a 4 inch stump.

Next Step  
Treatments:

Acceptable  
Regen:

Other This stand is basically a rock bluff and access from state land is across a creek but there is some nice bigtooth aspen in it and I believe it could  
Comment: be accessed from the private land who have already cut theirs. Old next step comments: Regen survey after harvest.

Proposed Start Date: 10/1 /2014

**Site Condition: None**

69	12105069-Cut	5.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Prescription Harvest all species except red and white pine, cedar, hemlock, elm, cherry and oak. Cut all spruce and balsam that is 6 inches or greater at a 4  
Specs: inch stump.

Next Step  
Treatments:

Acceptable  
Regen:

Other Again this is steep with water at the base and will probably have to be accessed from the private land. Old next step comments: Regen survey  
Comment: after harvest.

Proposed Start Date: 10/1 /2014

**Site Condition: None**

**Total Treatment  
Acreage Proposed: 357.1**

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Linda Lindberg : Examiner

Compartment: 105  
Year of Entry: 2015

### Dominant Site Conditions

	2H	3J	5C
Aspen		0	
Cedar		0	
Lowland Conifers	11	101	
Lowland Deciduous			
Lowland Mixed Forest			
Lowland Shrub			
Mixed Upland Deciduous			
Natural Mixed Pines			41
Northern Hardwood		0	
Upland Conifers		0	
Upland Mixed Forest			
Total Forested Acres	11	101	41
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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Fern Creek and not much acreage where nothing else is being cut.							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The diameter of the black ash does not make it worth harvesting.							
4	Unavailable	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is a stream running through here and it is wet and diverse. Some areas have rock some are low and wer.							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 105

Linda Lindberg : Examiner

Year of Entry: 2015

5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand as with others has small ash that is not worth harvesting and is very wet.							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This has cedar, rock outcrops and wet so it isn't worth going after for what you would get out of it							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Some of this has been cut and it is wet							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	60	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage and small stream here							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is scattered, has a lot of cedar and is wet and has a lot of tag alder.							

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

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**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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.1	95	Unspecified	What could be cut here was and the access is too difficult to cut any more. Most is Fern Creek buffer etc
3	4133 - Aspen, Mixed Pine	Sapling Well	3.9	9	Unspecified	
4	4130 - Aspen	Sapling Medium	25.2	7	Unspecified	
5	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.1	87	51-80	This stand was proposed for cutting last time but does not have the BA, has a large rock outcrop and is only 5 acres.
6	6120 - Lowland Cedar	Poletimber Well	26.5	95	81-110	Central stand is cedar with transition of other species
7	4319 - Mixed Upland Forest	Poletimber Well	19.9	87	81-110	seems the aspen was cut last time so that is a younger age but all else is the same. The aspen is 4 to 10 inches in DBH. This is very steep and rocky.
8	4319 - Mixed Upland Forest	Sapling Poor	8.5	9	Unspecified	This was a birch stand that was cut and did not grow back from what I could see. There is some spruce and balsam regen where a few were left uncut, but over all, it is raspberries with a few aspen here and there. We will look at in the spring to see about planting or if something is closer to the ground under the snow.
9	6120 - Lowland Cedar	Poletimber Well	6.0	100	81-110	
11	4130 - Aspen	Poletimber Well	99.8	31	Unspecified	
12	4134 - Aspen, Spruce/Fir	Poletimber Well	5.8	31	Unspecified	
13	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	18.4	59	Unspecified	Most of this stand would be in the stream buffer. It is somewhat steep but then the aspen could be cut with the stand in comp 104 to the south but would be out of the way to cut this time and is still only 57 so not too old. Anything cut on this side of the creek either has to be accessed through private or you need to cross Fern Creek and there is a steep incline there
14	4119 - Mixed Northern Hardwoods	Sawtimber Well	39.8	87	51-80	You could take out the aspen and birch here but the BA is very low
15	4134 - Aspen, Spruce/Fir	Sapling Well	18.1	9	Unspecified	T
16	4119 - Mixed Northern Hardwoods	Poletimber Well	17.9	87	51-80	This stand was thinned last time and has many conifers in the understory. This stand is not real healthy but should be watched to see what happens. It seems to be drought related but there is a lot of conifer regeneration

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## Crystal Falls Mgt. Unit

## Report 8 – Forested Stands

Compartment: 105  
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6120 - Lowland Cedar	Poletimber Well	45.2	95	Unspecified	Some baby cedar and other species. This was cut through and has young stuff throughout
6120 - Lowland Cedar	Poletimber Well	33.6	94	81-110	
4119 - Mixed Northern Hardwoods	Poletimber Well	8.2	87	Unspecified	If cut, it should be cut with the next stand in comp 104
6115 - Lowland Ash	Poletimber Well	5.1	90	Unspecified	
4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	29.3	87	51-80	
6120 - Lowland Cedar	Poletimber Well	7.3	95	Unspecified	
6120 - Lowland Cedar	Poletimber Well	2.1	95	Unspecified	
6120 - Lowland Cedar	Poletimber Well	20.0	72	Unspecified	
4136 - Aspen, Mixed Conifer	Sapling Well	35.9	9	Unspecified	This was cut and has areas of aspen regen and areas of overstory but is OK as is
4134 - Aspen, Spruce/Fir	Poletimber Well	10.1	31	Unspecified	
4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.1	87	51-80	This was cut in the last round and is heavy to conifers but OK in this country.
4119 - Mixed Northern Hardwoods	Poletimber Well	10.0	87	81-110	
4134 - Aspen, Spruce/Fir	Sapling Well	41.8	15	Unspecified	
4319 - Mixed Upland Forest	Poletimber Well	5.6	34	51-80	
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	36.2	87	Unspecified	steep in some spots and some areas are buffer to the wet some is blown down also
4110 - Sugar Maple Association	Poletimber Well	27.8	87	51-80	
4134 - Aspen, Spruce/Fir	Sapling Medium	105.4	7	Unspecified	
4134 - Aspen, Spruce/Fir	Poletimber Well	49.3	32	Unspecified	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4134 - Aspen, Spruce/Fir	Sapling Well	11.7	8	Unspecified	
37	4136 - Aspen, Mixed Conifer	Sapling Well	2.5	8	Unspecified	
38	4134 - Aspen, Spruce/Fir	Sapling Well	6.0	16	Unspecified	This was cut through the wetland some some has regenerated and some has not. Some species were left so there are scattered older lowland species mixed in.
39	4134 - Aspen, Spruce/Fir	Poletimber Well	29.9	17	Unspecified	
40	4199 - Other Mixed Upland Deciduous	Sawtimber Well	118.5	80	81-110	I guess this stand should be marked with the aspen taken out for the most part and the better hardwood left. Some of the area is entirely rock and will have to be taken out.
41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.7	90	Unspecified	There are clumps of cedar and then other species on rock outcrops with some other species mixed in.
42	6115 - Lowland Ash	Poletimber Medium	9.7	90	1-50	
43	4134 - Aspen, Spruce/Fir	Poletimber Well	94.9	24	Unspecified	
44	6115 - Lowland Ash	Poletimber Medium	3.4	90	Unspecified	
45	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	34.5	90	Unspecified	
46	4130 - Aspen	Poletimber Well	13.9	34	Unspecified	There is a hardwood inclusion in this stand and low by the road.
47	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	61.7	81	51-80	There is a lot of diversity here and a lot of rock. Some parts straight hardwood some parts with more aspen.
48	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	10.7	90	81-110	
49	4134 - Aspen, Spruce/Fir	Poletimber Well	4.1	35	Unspecified	
51	4134 - Aspen, Spruce/Fir	Sapling Well	43.8	16	Unspecified	This stand has a large component of young hemlock in one area up on the hillside near the creek. Some areas are hardwood clumps. Some is wet
52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	1.5	90	Unspecified	A lot of this stand is dead.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	42290 - Natural Mixed Pine	Poletimber Well	42.0	57	Unspecified	
54	4119 - Mixed Northern Hardwoods	Poletimber Well	6.7	87	111-140	This has steep parts and I would not recommend cutting except if we cut stand 55, we can get what there is to cut here also.
55	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.1	87	111-140	This has hills and dales but should be harvested where it can be.
56	6120 - Lowland Cedar	Sawtimber Well	21.3	90	Unspecified	
57	429 - Mixed Upland Conifers	Poletimber Well	16.0	90	51-80	
58	4110 - Sugar Maple Association	Poletimber Well	3.7	87	111-140	There are hills and rocks here.
59	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	63.4	90	51-80	A creek runs through here
60	4136 - Aspen, Mixed Conifer	Sawtimber Well	67.3	90	Unspecified	Part of this can be cut and part is wet. Some of the wet has a creek running through it and those parts should be left out. This does have the ORV trail running through it and there are extremely wet spots on the trail and a nice ORV bridge also.
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.9	87	81-110	
62	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	25.8	77	81-110	There is a lot of diversity here and it has some rock outcrops but for the most part, can be cut.
63	4319 - Mixed Upland Forest	Poletimber Well	71.1	90	51-80	This was a shoppers choice kind of cut and has cedar wetland, lots of pine and scattered younger aspen and scattered older aspen. There is a lot of rock and creeks running through and will hold.
64	4134 - Aspen, Spruce/Fir	Poletimber Well	23.5	28	Unspecified	
65	4134 - Aspen, Spruce/Fir	Poletimber Well	16.7	26	Unspecified	
66	6120 - Lowland Cedar	Poletimber Well	7.5	90	Unspecified	A creek runs through here
67	4139 - Aspen, Mixed Deciduous	Poletimber Well	9.8	90	81-110	
68	6120 - Lowland Cedar	Sawtimber Well	3.3	90	Unspecified	

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Crystal Falls Mgt. Unit

Report 8 – Forested Stands

Compartment: 105  
Year of Entry: 2015



S t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.8	90	51-80	There is some steepness here as all over in this area.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	622 - Lowland Shrub	1.7	No	
10	622 - Lowland Shrub	12.5	No	
33	622 - Lowland Shrub	6.7	No	
50	622 - Lowland Shrub	12.6	No	