



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12056

Entry Year 2015

Acreage: 2,025

County Dickinson

Management Area: Ralph Ground Moraine

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**Revision Date:** 2013-07-17

**Stand Examiner:**

**Legal Description:**

T42N R29W Sections 16,17,21-23,26-30

**Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activities.

**Soil and topography:**

There is much variation in both soil types and topography. The soil ranges from Emmet rock outcrop complexes on the steep peaks to well drained sandy loams on the ridges and Waucedah - Cathro mucks on the very poorly drained areas near the creeks and rivers. Some terrain within this compartment is very steep and rocky.

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

Many blocks of private ownership are scattered within and around the entire compartment. Active forest management both on private and State of Michigan lands will continue in the area. Snowmobiling, hunting, fishing, and boating are the main recreational use patterns.

**Unique Natural Features:**

West Branch Sturgeon River, and Six Mile Lake

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

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

West Branch of Sturgeon River, and Six Mile Lake is within Compartment 56.

**Wildlife Habitat Considerations:**

The compartment is interspersed with creeks, lakes, drainages and wetlands which makes it particularly valuable for wildlife. Lowland hardwood types provide excellent food sources for deer, bear and migratory songbirds. Swamp conifers provide winter cover for deer, bobcat and furbearers and summer refuge for bear.

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

Surface sediments consist of coarse-textured glacial till, sometimes thin to discontinuous. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising Group and Precambrian Archean granite/gneiss, Volcanics and sedimentary rocks subcrop below the glacial drift. The Granite/Gneiss could be used for decorative or building stone. A Randville Dolomite marble quarry is located four miles to the southeast. Groveland Iron mine is located approximately one mile to the southwest. Most of this compartment was previously leased for metallic exploration, and potential may still exist. A gravel pit is located in Section 26 and there appears to be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vehicle access is fair. There are many roads however, most roads within the compartment are accessed through private land. Vehicle access for the general public is limited. Six Mile Lake Road serves as the primary access point.

**Survey Needs:**

Many survey corners are needed.

**Recreational Facilities and Opportunities:**

The Six Mile Lake Boating Access Site, and Snowmobile Trail #16 are located within Compartment 56. Furthermore, there are excellent opportunities for hunting and fishing.

**Fire Protection:**

Located within Felch's fire protection area. Access is difficult for fire equipment with the private ownership and rocky areas both providing operational challenges.

**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**

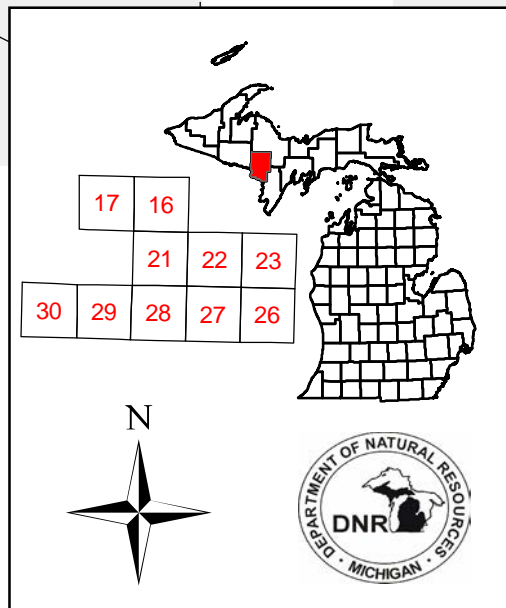
The following information is displayed, where pertinent, on the attached compartment maps:

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

# Cover Type & Treatment Map

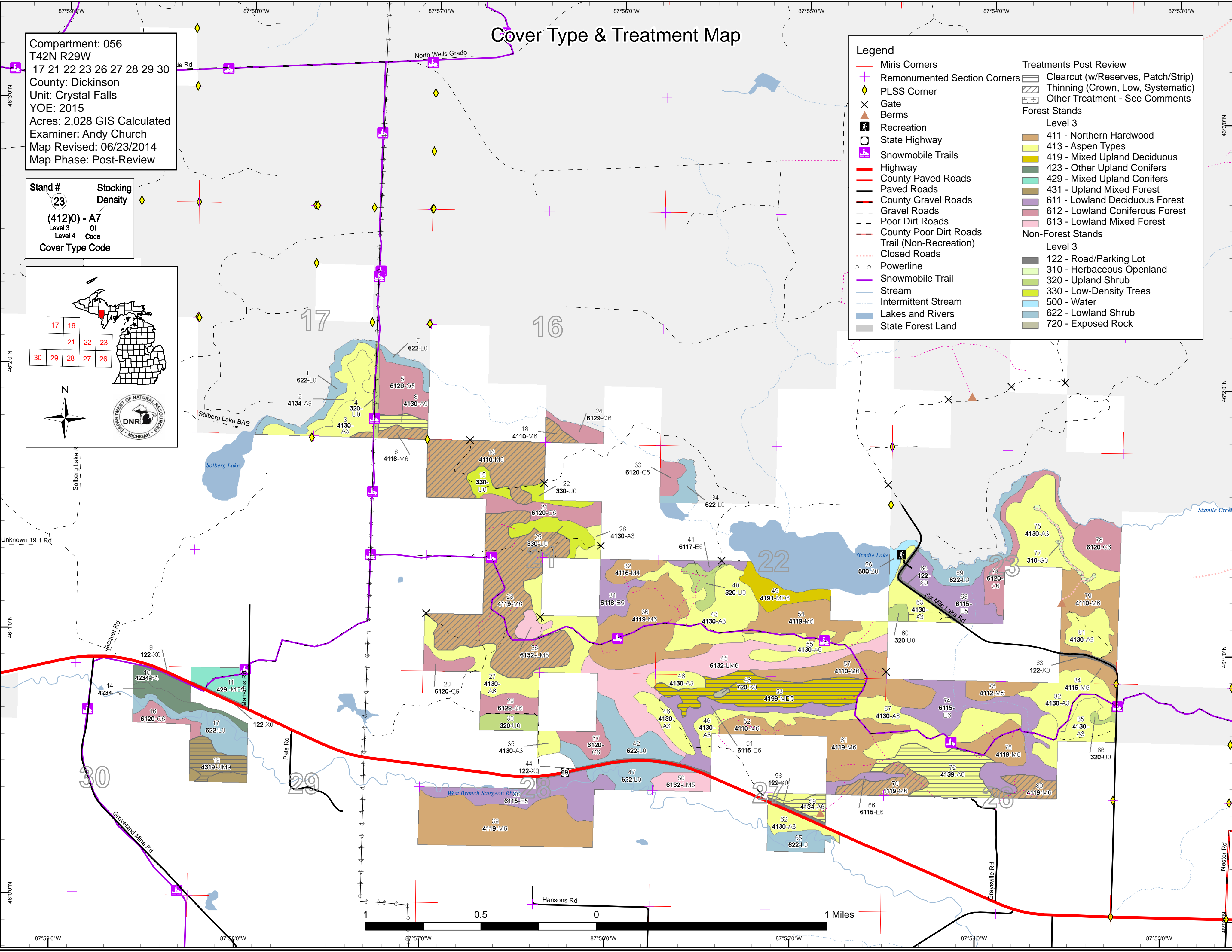
Compartment: 056  
 T42N R29W  
 17 21 22 23 26 27 28 29 30  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2015  
 Acres: 2,028 GIS Calculated  
 Examiner: Andy Church  
 Map Revised: 06/23/2014  
 Map Phase: Post-Review

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



### Legend

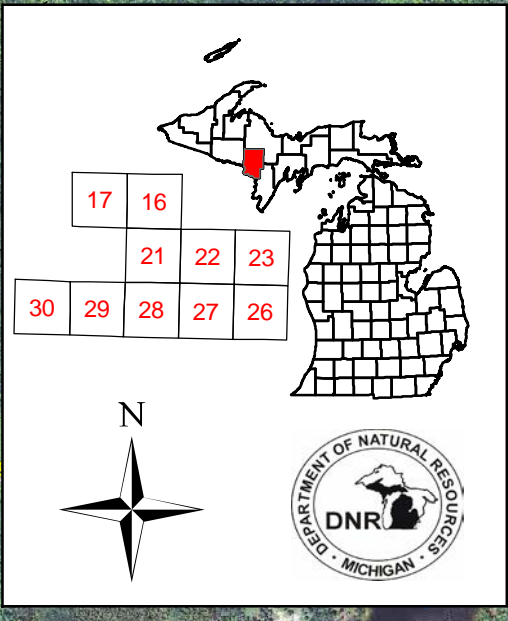
— Miris Corners	▭ Clearcut (w/Reserves, Patch/Strip)
⊕ Remonumented Section Corners	▨ Thinning (Crown, Low, Systematic)
◇ PLSS Corner	▭ Other Treatment - See Comments
⊗ Gate	<b>Forest Stands</b>
▲ Berms	<b>Level 3</b>
⚡ Recreation	■ 411 - Northern Hardwood
⊠ State Highway	■ 413 - Aspen Types
⊞ Snowmobile Trails	■ 419 - Mixed Upland Deciduous
— Highway	■ 423 - Other Upland Conifers
— Paved Roads	■ 429 - Mixed Upland Conifers
— County Paved Roads	■ 431 - Upland Mixed Forest
— County Gravel Roads	■ 611 - Lowland Deciduous Forest
— Gravel Roads	■ 612 - Lowland Coniferous Forest
— Poor Dirt Roads	■ 613 - Lowland Mixed Forest
— County Poor Dirt Roads	<b>Non-Forest Stands</b>
— Trail (Non-Recreation)	<b>Level 3</b>
⋯ Closed Roads	■ 122 - Road/Parking Lot
⚡ Powerline	■ 310 - Herbaceous Openland
— Snowmobile Trail	■ 320 - Upland Shrub
— Stream	■ 330 - Low-Density Trees
— Intermittent Stream	■ 500 - Water
— Lakes and Rivers	■ 622 - Lowland Shrub
— State Forest Land	■ 720 - Exposed Rock



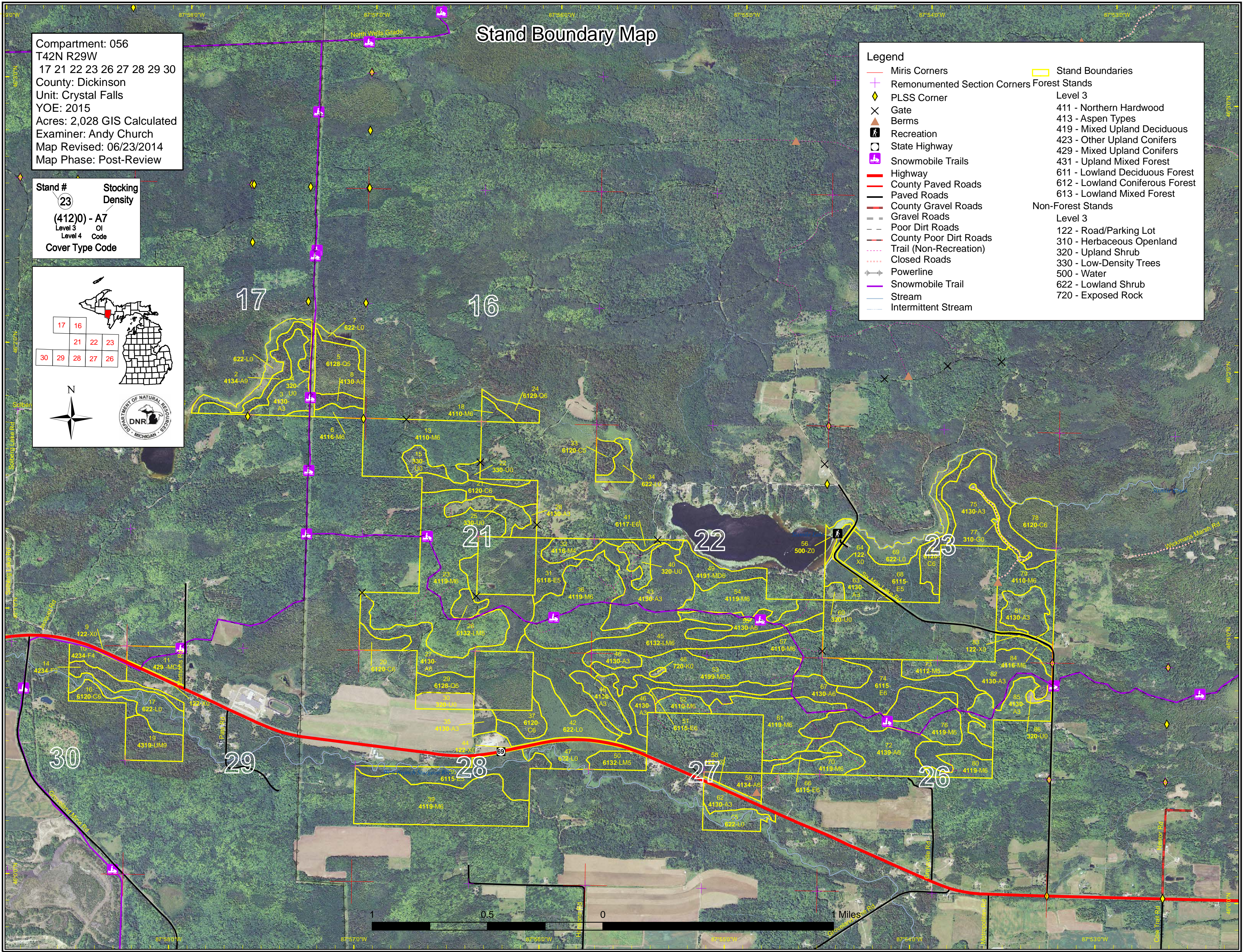
# Stand Boundary Map

Compartment: 056  
 T42N R29W  
 17 21 22 23 26 27 28 29 30  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2015  
 Acres: 2,028 GIS Calculated  
 Examiner: Andy Church  
 Map Revised: 06/23/2014  
 Map Phase: Post-Review

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



- ### Legend
- Miris Corners
  - Remunemented Section Corners
  - PLSS Corner
  - Gate
  - Berms
  - Recreation
  - State Highway
  - Snowmobile Trails
  - Highway
  - County Paved Roads
  - Paved Roads
  - County Gravel Roads
  - Gravel Roads
  - Poor Dirt Roads
  - County Poor Dirt Roads
  - Trail (Non-Recreation)
  - Closed Roads
  - Powerline
  - Snowmobile Trail
  - Stream
  - Intermittent Stream
  - Stand Boundaries
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
  - 429 - Mixed Upland Conifers
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
  - Non-Forest Stands
  - Level 3
  - 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub
  - 720 - Exposed Rock

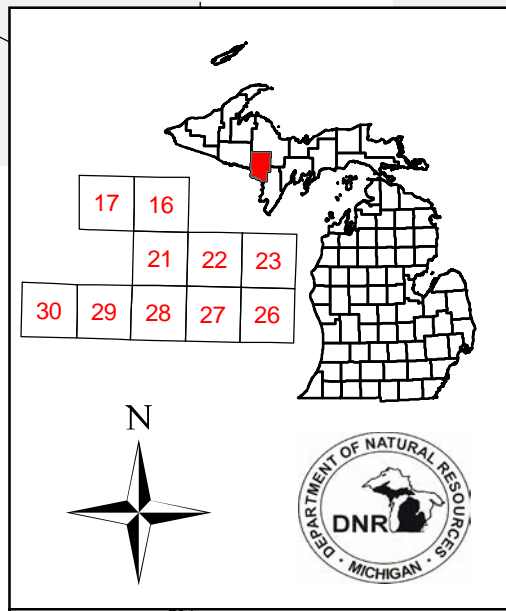




# Cover Type & Treatment Map

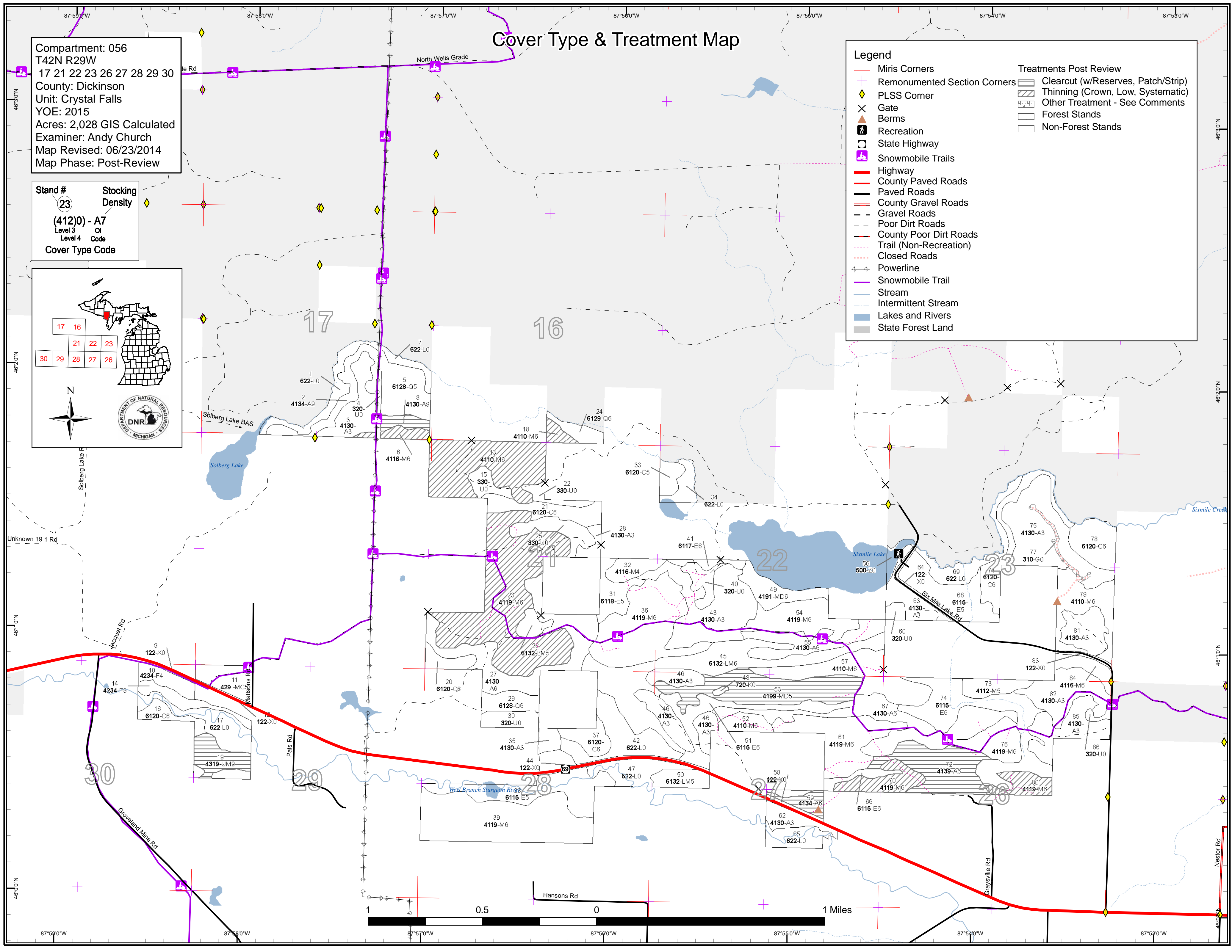
Compartment: 056  
 T42N R29W  
 17 21 22 23 26 27 28 29 30  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2015  
 Acres: 2,028 GIS Calculated  
 Examiner: Andy Church  
 Map Revised: 06/23/2014  
 Map Phase: Post-Review

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



### Legend

Miris Corners	Clearcut (w/Reserves, Patch/Strip)
Remonumented Section Corners	Thinning (Crown, Low, Systematic)
Gate	Other Treatment - See Comments
Berms	Forest Stands
Recreation	Non-Forest Stands
State Highway	
Snowmobile Trails	
Highway	
Paved Roads	
County Paved Roads	
County Gravel Roads	
Gravel Roads	
Poor Dirt Roads	
County Poor Dirt Roads	
Trail (Non-Recreation)	
Closed Roads	
Powerline	
Snowmobile Trail	
Stream	
Intermittent Stream	
Lakes and Rivers	
State Forest Land	



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	68	90	146	58	91	0	0	52	32	0	0	0	0	0	0	0	0	537
Cedar	0	0	0	0	0	0	0	0	0	30	56	23	0	0	0	0	0	0	109
Exposed Rock	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	38	0	13	0	0	0	0	0	0	0	0	51
Lowland Deciduous	0	0	0	0	0	0	0	0	134	64	0	0	0	0	0	0	0	0	198
Lowland Mixed Forest	0	0	0	0	0	0	0	0	20	82	0	0	0	0	0	0	0	0	102
Lowland Shrub	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
Mixed Upland Deciduous	0	0	0	0	0	0	58	19	0	0	0	0	0	0	0	0	0	0	77
Northern Hardwood	0	0	0	0	0	0	0	148	12	168	308	0	0	0	0	0	0	0	636
Upland Conifers	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24
Upland Shrub	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Upland Spruce/Fir	0	0	0	0	0	0	12	12	0	0	0	0	0	0	0	0	0	0	24
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>247</b>	<b>68</b>	<b>90</b>	<b>146</b>	<b>58</b>	<b>91</b>	<b>70</b>	<b>217</b>	<b>236</b>	<b>413</b>	<b>364</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2023</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2015

Acres of Harvest

Compartment 56  
Total Compartment Acres: 2,025

Commercial Harvest - 383  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 4

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	61	0	0	0	0	0	0	0	0	61
Mixed Upland Deciduous	58	0	0	0	0	0	0	0	0	58
Northern Hardwood	0	0	0	0	246	0	0	0	0	246
Upland Mixed Forest	18	0	0	0	0	0	0	0	0	18
<b>Total</b>	<b>138</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>246</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>383</b>

### Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	383	0	0	0	0	0	0	4	0	387
<b>Total</b>	<b>383</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>387</b>





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
6	12056006-Cut	7.6	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	90	111- 140	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

Prescription Thin to 80 RBA. Leave all Hemlock, Cedar, Oak, Pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Large overstory Aspen mixed throughout stand. Should treat as Hardwood stand.

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

8	12056008-Cut	7.2	4130 - Aspen	Sawtimber Well	77	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Prescription Final Harvest using 2" spec. Leave all Cedar, Hemlock, Oak, and submerchantable conifers.

Specs: RETENTION: Cedar, Hemlock, Oak, submerchantable conifers  
ACCEPTABLE ALTERNATIVE REGEN: Maple/Fir

Next Step

Treatments:

Acceptable

Regen:

Other Aspen is falling apart. Mixed hardwoods throughout stand. Wetter to North. Old next step comments: regen check

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

13	12056013-Cut	69.2	4110 - Sugar Maple Association	Poletimber Well	91	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin to 80 RBA. Leave all Cedar, Hemlock, Oak, Pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Terrain is rolling hills with ravines. Low quality. Many forks, splits, conks. More Red Maple on SE finger. This finger may be difficult to access

Comment: because of wet areas all around. Access to stand is through private.

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
18	12056018-Cut	5.5	4110 - Sugar Maple Association	Poletimber Well	91	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary

Prescription Thin to 80 RBA. Leave Cedar, Hemlock, Oak, Pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Steep hillside with ravine in middle. Poor quality trees. Access through private. May need survey.

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

19	12056019-Cut	18.4	4319 - Mixed Upland Forest	Sawtimber Well	86	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Prescription Final harvest using 2" spec. Leave Hemlock, Cedar, Oak. Buffer Sturgeon River 300 feet.

Specs: RETENTION: Hemlock, Cedar, Oak, Buffer  
ACCEPTABLE ALTERNATIVE REGEN: Maple/Fir

Next Step

Treatments:

Acceptable

Regen:

Other Budworm damage evident causing mortality. Wet drainages throughout. May need corners. Thick understory of Fir/Spruce. Aspen not healthy; overmature, top dieback, and conks. Small Cedar inclusions on South line of stand too small to meet minimum mapping standards. Exclude Cedar areas from treatment boundary. Access through private. May need survey.

Proposed Start Date: 10/1 /2014

**Site Condition: None**

23	12056023-Cut	130.5	4119 - Mixed Northern Hardwoods	Poletimber Well	91	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin to 80 RBA. Leave all Cedar, Hemlock, Oak, Pine. No operations within vernal ponds and/or drainages.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Last harvested 1977. Removed all hdwd logs, Elm logs, and all Aspen. Veins of lowland Ash and vernal ponds throughout. Pockets of Hard  
Comment: Maple regen.

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
53	12056053-Cut	58.4	4199 - Other Mixed Upland Deciduous	Poletimber Medium	59	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

Prescription Final harvest using 2" spec. Leave all Cedar, Hemlock, Oak, Pine.

Specs: RETENTION: Cedar, Hemlock, Oak, Pine and areas that cannot be physically harvested.  
ACCEPTABLE ALTERNATIVE REGEN: Maple/Fir

Next Step

Treatments:

Acceptable

Regen:

Other Entire stand is on top of a rock. Some wet Black Ash swales present on top of rock. Very steep terrain. Regeneration may be slow due to  
Comment: current low stocking level. Far Western finger is Aspen/Fir.

Proposed Start Date: 10/1 /2014

**Site Condition: None**

59	12056059-Cut	8.6	4134 - Aspen, Spruce/Fir	Poletimber Well	80	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Prescription Final Harvest using 2" spec. Leave all Cedar, Hemlock, Oak, Pine. Exclude wet area to North.

Specs: RETENTION: Cedar, Hemlock, Oak, Pine, Wet area  
ACCEPTABLE ALTERNATIVE REGEN: Maple/Fir

Next Step

Treatments:

Acceptable

Regen:

Other Black Ash swale to NW too small to meet minimum mapping standards. Exclude from treatment boundary. May need survey.

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

70	12056070-Cut	19.2	4119 - Mixed Northern Hardwoods	Poletimber Well	86	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin to target RBA 80. Leave all Cedar, Hemlock, Oak, Pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Lowland drains mixed throughout stand. Trace amounts of Cedar and Hemlock

Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
72	12056072-Cut	44.9	4139 - Aspen, Mixed Deciduous	Poletimber Well	70	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary

Prescription Final Harvest using 2" spec. Leave all Cedar, Hemlock, Oak, Pine. Buffer stream to North 100 feet. Dry summer, or frozen ground only.

Specs: RETENTION: Cedar, Hemlock, Oak, Pine, Buffer  
ACCEPTABLE ALTERNATIVE REGEN: Maple/Ash

Next Step  
Treatments:

Acceptable  
Regen:

Other Stream on North edge of stand in bottom of ravine. Older Aspen near stream and on the hillsides of ravine. This stand is a mix of  
Comment: Aspen/Maple/Ash with small pockets of low quality hardwoods throughout. Age of Aspen varies. Small wet areas present.

Proposed Start Date: 10/1 /2014

**Site Condition: None**

80	12056080-Cut	13.7	4119 - Mixed Northern Hardwoods	Poletimber Well	86	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Prescription Thin to target RBA 80. Leave all Cedar, Hemlock, Oak, Pine.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Lower quality hardwood stand. Needs improvement. May need survey.  
Comment:

Proposed Start Date: 10/1 /2014

**Site Condition: None**

77	NF_12056077-NonFor	3.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Prescription WLD may seed opening or maintain existing opening

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

**Site Condition: None**

**Total Treatment  
Acreage Proposed: 387.3**

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J	
Aspen	20
Cedar	
Exposed Rock	
Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
Northern Hardwood	
Upland Conifers	
Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
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
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J

Aspen	20
Cedar	
Exposed Rock	
Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
Northern Hardwood	
Upland Conifers	
Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
Relative Percent	

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J

Aspen	20
Cedar	
Exposed Rock	
Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
Northern Hardwood	
Upland Conifers	
Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
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
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J	
Aspen	20
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Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
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Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
Relative Percent	

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Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J

Aspen	20
Cedar	
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Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
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Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
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Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
Relative Percent	

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Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J

Aspen	20
Cedar	
Exposed Rock	
Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
Northern Hardwood	
Upland Conifers	
Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
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
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

### Dominant Site Conditions

3J

Aspen	20
Cedar	
Exposed Rock	
Herbaceous Openland	
Low-Density Trees	
Lowland Conifers	
Lowland Deciduous	64
Lowland Mixed Forest	
Lowland Shrub	
Mixed Upland Deciduous	
Northern Hardwood	
Upland Conifers	
Upland Mixed Forest	
Upland Shrub	
Upland Spruce/Fir	12
Urban	
Water	
Total Forested Acres	97
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
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Crystal Falls Mgt. Unit  
Andrew Church : Examiner

Compartment: 56  
Year of Entry: 2015

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much Cedar							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	36	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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
6 Mile Lake Boating Access Site	Concentrated Recreation Area	Boat Access Site	Proposed SCA	1
<b>Comments</b>				



**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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.5	80	Unspecified	Uncut buffer from the Deer Blind City sale (2008). Fir and spruce are quite healthy. Trees along powerline were deemed to dangerous to be harvested.
3	4130 - Aspen	Sapling Well	26.0	7	Unspecified	Deer Blind City Sale harvested in 2008
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	29.2	66	Unspecified	Center of stand is brushy and has stream. More Cedar/Black Spruce to North. More Tamarack/Swamp Hardwoods to South. Even mix of Cedar/Spruce/Tamarack.
6	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	7.6	90	111-140	Large overstory Aspen mixed throughout stand. Should treat as Hardwood stand.
8	4130 - Aspen	Sawtimber Well	7.2	77	Unspecified	Aspen is falling apart. Mixed hardwoods throughout stand. Wetter to North.
10	42340 - Upland Spruce/Fir	Poletimber Poor	11.8	53	Unspecified	Stand harvested in 1999. Only harvested Maple, Aspen, Birch from stand. Most of White Pine is on East side.
11	429 - Mixed Upland Conifers	Poletimber Medium	18.4	73	1-50	Harvested in 1999. Removed Aspen, Maple, Birch, and damaged Pine from windstorm.
13	4110 - Sugar Maple Association	Poletimber Well	69.2	91	111-140	Terrain is rolling hills with ravines. Low quality. Many forks, splits, conks. More Red Maple on SE finger. This finger may be difficult to access because of wet areas all around. Access through private.
14	42340 - Upland Spruce/Fir	Sawtimber Well	12.4	60	Unspecified	This stand is the uncut buffer along Sturgeon River. Mix of upland and lowland.
16	6120 - Lowland Cedar	Poletimber Well	9.8	95	Unspecified	Thick Cedar stand within 300 feet of trout stream. Balsam regen in openings.
18	4110 - Sugar Maple Association	Poletimber Well	5.5	91	111-140	Steep hillside with ravine in middle. Poor quality trees. Access through private.
19	4319 - Mixed Upland Forest	Sawtimber Well	23.6	86	Unspecified	Budworm damage evident causing mortality. Wet drainages throughout. May need corners. Thick understory of Fir/Spruce. Aspen not healthy; overmature, top dieback, and conks. Small Cedar inclusions on South line of stand too small to meet minimum mapping standards. Exclude Cedar areas from treatment boundary. Access through private.
20	6120 - Lowland Cedar	Poletimber Well	8.8	87	Unspecified	Black Ash and BAM to East. More pure Cedar to West.
21	6120 - Lowland Cedar	Poletimber Well	21.9	94	Unspecified	More Cedar to West. More Swamp hwdws to East. Far too wet for operations. Cattails growing within stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4119 - Mixed Northern Hardwoods	Poletimber Well	130.5	91	111-140	Last harvested 1977. Removed all hdwd logs, Elm logs, and all Aspen. Veins of lowland Ashe and vernal ponds throughout. Pockets of Hard Maple regen.
24	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.8	60	Unspecified	Entire stand within riparian corridor. Old beaver pond reclaiming to trees.
26	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	7.7	70	Unspecified	Small diameters. Stand very wet. Trees are slowly filling in this lowland stand.
27	4130 - Aspen	Poletimber Well	57.5	38	Unspecified	Most of Aspen merchantability sized. There are many trees at that 3" diameter as well.
28	4130 - Aspen	Sapling Well	5.7	27	Unspecified	Some Aspen starting to reach merchantability size.
29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.2	86	Unspecified	North half of stand is more Swamp Hdwds. South half of stand is more Cedar type.
31	6118 - Lowland Deciduous with Cedar	Poletimber Medium	16.2	89	Unspecified	Wet stand with stream in NE finger. Narrow upland Aspen/Fir strip along transition to hardwood stand too small to meet minimum mapping standards.
32	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	11.6	76	1-50	Small hardwood island in middle of opening. This was typed as opening last yoe. Trees are slowly starting to fill in this opening.
33	6120 - Lowland Cedar	Poletimber Medium	8.3	85	Unspecified	About 1 acre in middle of stand has sparse Aspen/Fir. Rest is Cedar and Tamarack. Younger and smaller trees towards creek.
35	4130 - Aspen	Sapling Well	6.3	15	Unspecified	North half of stand is a grassy opening
36	4119 - Mixed Northern Hardwoods	Poletimber Well	73.1	90	81-110	More Red Maple to North. Quality better on South side of stand. Southern stand boundary is steep. Middle of stand has steep drop. It is almost a 2 tiered step. Low BAs throughout. Drainages of BAM and Black Ash present.
37	6120 - Lowland Cedar	Poletimber Well	12.8	89	Unspecified	Swamp hardwoods filling in the openings within the stand. Tamarack on edges.
38	6115 - Lowland Ash	Poletimber Medium	44.5	75	Unspecified	Stand within trout stream buffer. Some Ash reaching merchantability sized. Cedar scattered throughout.
39	4119 - Mixed Northern Hardwoods	Poletimber Well	89.8	66	51-80	Steep hill with North aspect. Many little ravines with hillside seeps leading towards river. Thinned last yoe. Transition to river was protected due to steep slopes and sensitive soils. Very low BAs. This hillside is very wet. Oak saplings scattered throughout stand.
41	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.5	86	Unspecified	2 very small upland inclusions along south side of stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4130 - Aspen	Sapling Well	60.8	27	Unspecified	Rocky stand. Some lowland drains throughout.
45	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	82.4	89	Unspecified	Cedar pocket concentrated in middle. Very wet stand. Mostly Black Ash.
46	4130 - Aspen	Sapling Well	33.0	17	Unspecified	Mostly upland stand with lowland areas. BAM and Tamarack in wetter areas.
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.3	66	81-110	REALLY steep North aspect adjacent to Six Mile Lake. Stand is slowly converting to Red Maple. Aspen/Maple to West of stand, Hemlock/Cedar on East side.
50	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	12.2	76	Unspecified	East half of stand has very few merchantable sized trees. Cedar dominates Western portion of stand. Small diameters. Quaking Aspen growing on small upland portion where old railroad or road was located.
51	6115 - Lowland Ash	Poletimber Well	28.9	77	Unspecified	Small diameter Black Ash stand.
52	4110 - Sugar Maple Association	Poletimber Well	10.2	81	51-80	Aspen removed in 1995. Resulting stand has low stocking level.
53	4199 - Other Mixed Upland Deciduous	Poletimber Medium	58.4	59	51-80	Entire stand is on top of a rock. Some wet Black Ash swales present on top of rock. Very steep terrain. Regeneration may be slow due to current low stocking level. Far Western finger is Aspen/Fir.
54	4119 - Mixed Northern Hardwoods	Poletimber Well	33.9	63	51-80	Terrain is all rock. Small diameter hardwoods. More Red Maple on top and North side of stand. Ridiculously steep on North side. Small ravines on top of rock holding Black Ash swales. Trace amounts of Hemlock.
55	4130 - Aspen	Poletimber Well	30.1	43	Unspecified	Rocky terrain. Aspen is not mature yet.
57	4110 - Sugar Maple Association	Poletimber Well	45.9	88	51-80	Thinned last YOE with the Deer Blind City sale of 2008
59	4134 - Aspen, Spruce/Fir	Poletimber Well	11.5	80	Unspecified	Black Ash swale to NW too small to meet minimum mapping standards. Exclude from treatment boundary. May need survey.
61	4119 - Mixed Northern Hardwoods	Poletimber Well	47.1	88	81-110	Not quite enough stocking for a harvest. Should be ready next YOE.
62	4130 - Aspen	Sapling Well	12.3	4	Unspecified	
63	4130 - Aspen	Sapling Well	17.1	19	Unspecified	Small hardwood ridge in South West part of stand. Northern finger is Cedar along Six Mile Lake. Both too small to meet minimum mapping standards. Aspen stand is a mix of upland and lowland.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	6115 - Lowland Ash	Poletimber Well	6.5	86	Unspecified	Stream present within this drainage.
67	4130 - Aspen	Poletimber Well	61.1	43	Unspecified	Western finger located on steep hillside. Wait to harvest with hardwood stand to SW. Wetter areas have BAM and Black Ash. Some Sugar Maple regen in understory near the hardwood stands. Eastern portion of this stand has bed and bank stream inside ravines.
68	6115 - Lowland Ash	Poletimber Medium	35.7	83	Unspecified	Stream running into creek to North. Thick understory of Black Ash. A couple small pockets of Swamp conifer. Small upland inclusions along road that did not meet minimum mapping standards. Low overstory coverage, but full understory coverage. Six Mile Lake boat launch parking lot within stand. More Quaking Aspen/Fir near parking lot.
70	4119 - Mixed Northern Hardwoods	Poletimber Well	19.3	86	111-140	Lowland drains mixed throughout stand. Trace amounts of Cedar and Hemlock
71	6120 - Lowland Cedar	Poletimber Well	24.2	90	Unspecified	Thick Cedar pocket to South. Rest of stand is within creek buffer.
72	4139 - Aspen, Mixed Deciduous	Poletimber Well	44.9	70	Unspecified	Stream on North edge of stand in bottom of ravine. Older Aspen near stream and on the hillsides of ravine. This stand is a mix of Aspen/Maple/Ash with small pockets of low quality hardwoods throughout. Age of Aspen varies. Small wet areas present.
73	4112 - Maple, Beech, Cherry Association	Poletimber Medium	12.5	64	51-80	Located on top of large rock. Low BAs due to exposed rock.
74	6115 - Lowland Ash	Poletimber Well	61.3	77	Unspecified	Small diameter swamp hardwood stand. Very brushy. Stream through stand.
75	4130 - Aspen	Sapling Well	59.6	27	Unspecified	Very rugged terrain. Wetter areas coming back to tamarack.
76	4119 - Mixed Northern Hardwoods	Poletimber Well	22.1	90	81-110	Red Maple located near wetter areas. Ravines holding Black Ash located within stand. Much Aspen mixed with the hardwoods. The stocking level of hardwoods is not that high. Wait one rotation to harvest.
78	6120 - Lowland Cedar	Poletimber Well	22.9	101	Unspecified	Extremely dense Cedar stand. Approx 300 BA. Other spp on edges of stand.
79	4110 - Sugar Maple Association	Poletimber Well	32.1	87	51-80	Thinned last YOE with the Moving Ribbons sale. Rugged terrain. SW corner of stand is Swamp conifer type too small to meet minimum mapping standards.
80	4119 - Mixed Northern Hardwoods	Poletimber Well	13.7	86	111-140	May need survey.
81	4130 - Aspen	Sapling Well	20.4	27	Unspecified	Ash regenerating in understory. Some scattered apple trees.



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Crystal Falls Mgt. Unit

## Report 8 – Forested Stands

Compartment: 56  
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>82</b>	4130 - Aspen	Sapling Well	34.0	17	Unspecified	A couple small hardwood islands in middle of stand.
<b>84</b>	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	11.0	67	51-80	Almost even mix of Northern Hardwoods and Aspen. Managing as northern hardwoods, but could convert to Aspen if needed for age class distribution.
<b>85</b>	4130 - Aspen	Sapling Well	30.2	6	Unspecified	Good mix of hardwoods regeneration with the Aspen, just not as tall yet.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	622 - Lowland Shrub	16.7	No	
4	320 - Upland Shrub	5.3	No	
7	622 - Lowland Shrub	5.9	No	
9	122 - Road/Parking Lot	1.3	No	
12	122 - Road/Parking Lot	1.8	No	
15	330 - Low-Density Trees	9.0	No	
17	622 - Lowland Shrub	25.2	No	
22	330 - Low-Density Trees	6.7	No	
25	330 - Low-Density Trees	16.8	No	
30	320 - Upland Shrub	11.2	No	
34	622 - Lowland Shrub	9.8	No	
40	320 - Upland Shrub	10.6	No	
42	6220 - Alder/willow	35.5	No	
44	122 - Road/Parking Lot	7.2	No	
47	622 - Lowland Shrub	19.8	No	
48	720 - Exposed Rock	1.1	No	
56	500 - Water	5.3	No	
58	122 - Road/Parking Lot	3.7	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
60	320 - Upland Shrub	3.9	No	
64	122 - Road/Parking Lot	4.8	No	
65	622 - Lowland Shrub	14.8	No	
69	622 - Lowland Shrub	21.0	No	
77	310 - Herbaceous Openland	3.9	No	
83	122 - Road/Parking Lot	2.8	No	
86	320 - Upland Shrub	2.5	No	