



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 12109

Entry Year 2022

Acreage: 2,287

County Dickinson

Management Area: Cassidy Creek

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**Revision Date:** 2020-07-16

**Stand Examiner:** Rich Goupell

**Legal Description:**

Township 40 North Range 28 West, Sections 28, 29, 30, 31, 32, and 33.

**Identified Planning Goals:**

Management goals are to promote species and age diversity, maintain recreation and hunting opportunities, and enhance forest health through sustainable timber management.

**Soil and topography:**

Mostly level to rolling terrain with some Carbondale and Cathro mucks found in the lowland areas. Scattered rock outcrops can be found throughout the Compartment.

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

Some private lands on the boundary of the compartment.

**Unique Natural Features:**

Cassidy Creek

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

none

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Cassidy Creek

Black Creek runs through two locations—the southwestern and midwestern portions of the compartment. Cassidy Creek is located in the mideastern portion of the compartment. There are also unnamed drainage areas in the south portion. All waterbodies should have 100' buffers; buffers are recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

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

Active sand/gravel pits are located one mile to the east and southeast. There could be some gravel potential within the compartment, but glacial sediments in this area appear to contain significant amounts of clay and bedrock is close to the surface here. Abandoned iron mines around Norway are located two miles to the southwest. There is no known iron ore potential within the compartment, but there may be potential for other metallic minerals. Part of the compartment was previously leased for metallic mineral exploration, but there was no known development or exploration within the compartment. There is no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Vehicle access is limited to the Cassidy Creek Road.

**Survey Needs:**

Some corners may be needed

**Recreational Facilities and Opportunities:**

Orv trail runs through compartment and snowmobile trail is just to the north

**Fire Protection:**

Norway Protection area.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

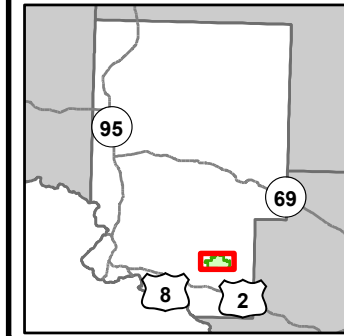
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

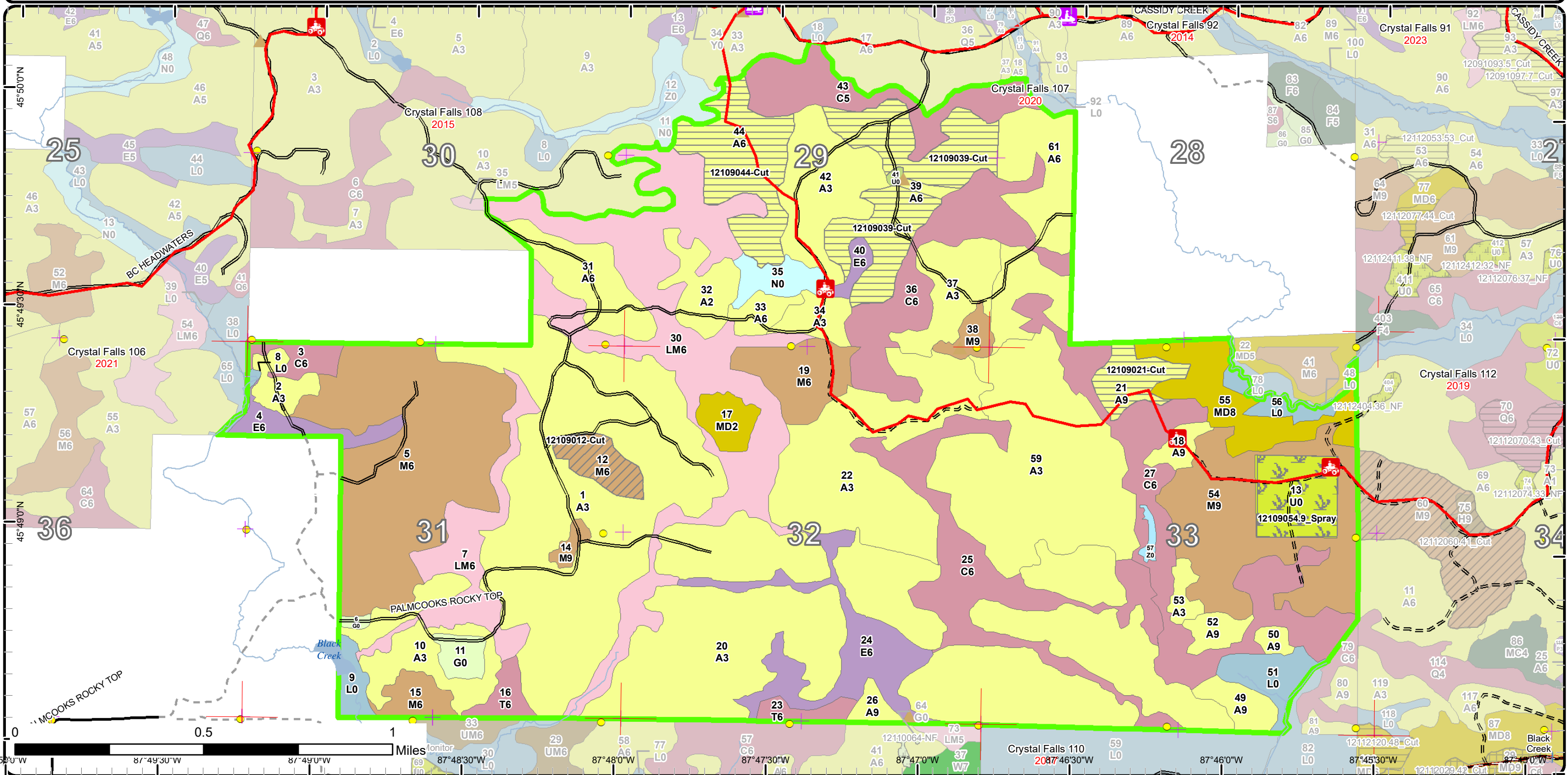
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 109  
 T40N, R28W, Sec. 28-33  
 T40N, R29W, Sec. 36  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2022  
 Acres: 2287.1 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 1/26/2021  
 Map Phase: Post-Review

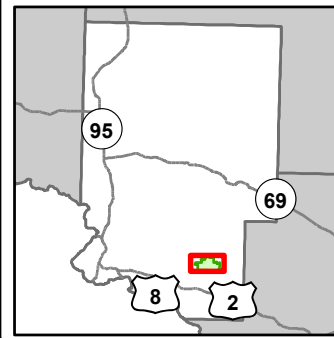


- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>--- Counties</li> <li>— DNR - Primary Forest Road</li> <li>— DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>— Federal / State / County - Paved Road</li> <li>- - Private - Dirt / Gravel Road</li> <li>ORV Trails</li> <li>— Designated ATV</li> <li>— Designated Snowmobile Trails</li> <li>▲ Berms</li> <li>— Lake/Pond</li> </ul> | <ul style="list-style-type: none"> <li>— Perennial River</li> <li>— Lakes and Rivers</li> <li>— Compartment Boundary</li> <li>— Pesticide</li> <li>— Clearcut (w/Reserves)</li> <li>— Thinning (Crown, Low, Systematic)</li> <li>— 411 - Northern Hardwood</li> <li>— 413 - Aspen</li> <li>— 419 - Mixed Upland Deciduous</li> <li>— 611 - Lowland Deciduous Forest</li> <li>— 612 - Lowland Coniferous Forest</li> <li>— 613 - Lowland Mixed Forest</li> <li>— 310 - Herbaceous Openland</li> <li>— 320 - Upland Shrub</li> <li>— 330 - Low Density Trees</li> </ul> | <ul style="list-style-type: none"> <li>500 - Water</li> <li>622 - Lowland Shrub</li> <li>623 - Emergent Wetland</li> </ul> |
|--|---|--|

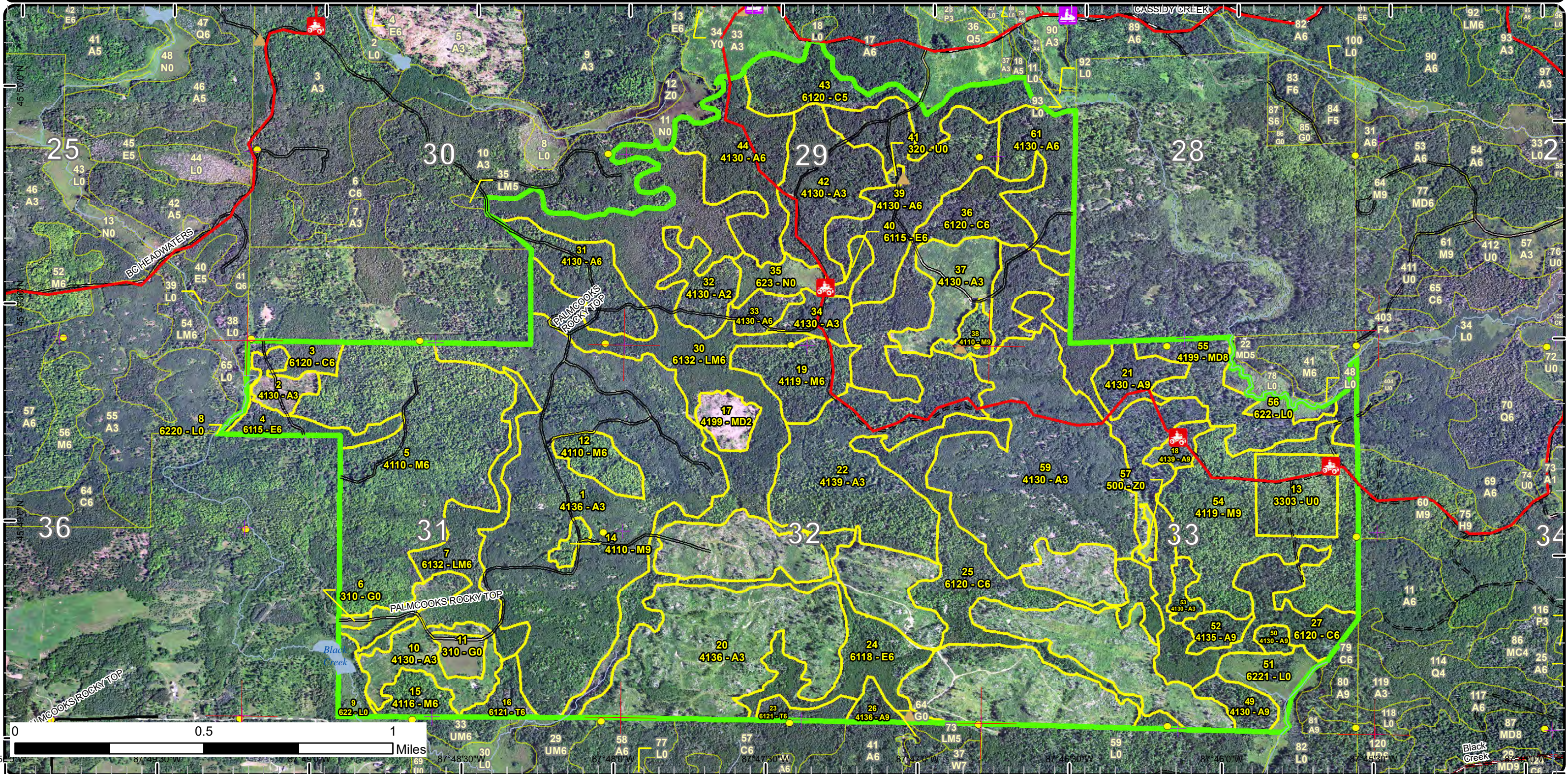


# Stand Boundary Map

Compartment: 109  
 T40N, R28W, Sec. 28-33  
 T40N, R29W, Sec. 36  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2022  
 Acres: 2287.1 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 1/26/2021  
 Map Phase: Post-Review

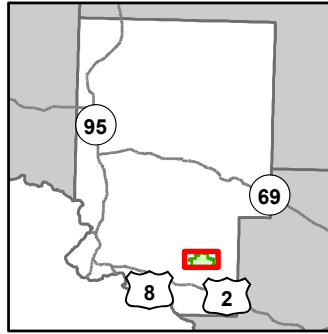


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- 🚲 ORV Trails
- Designated ATV
- Designated Snowmobile Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

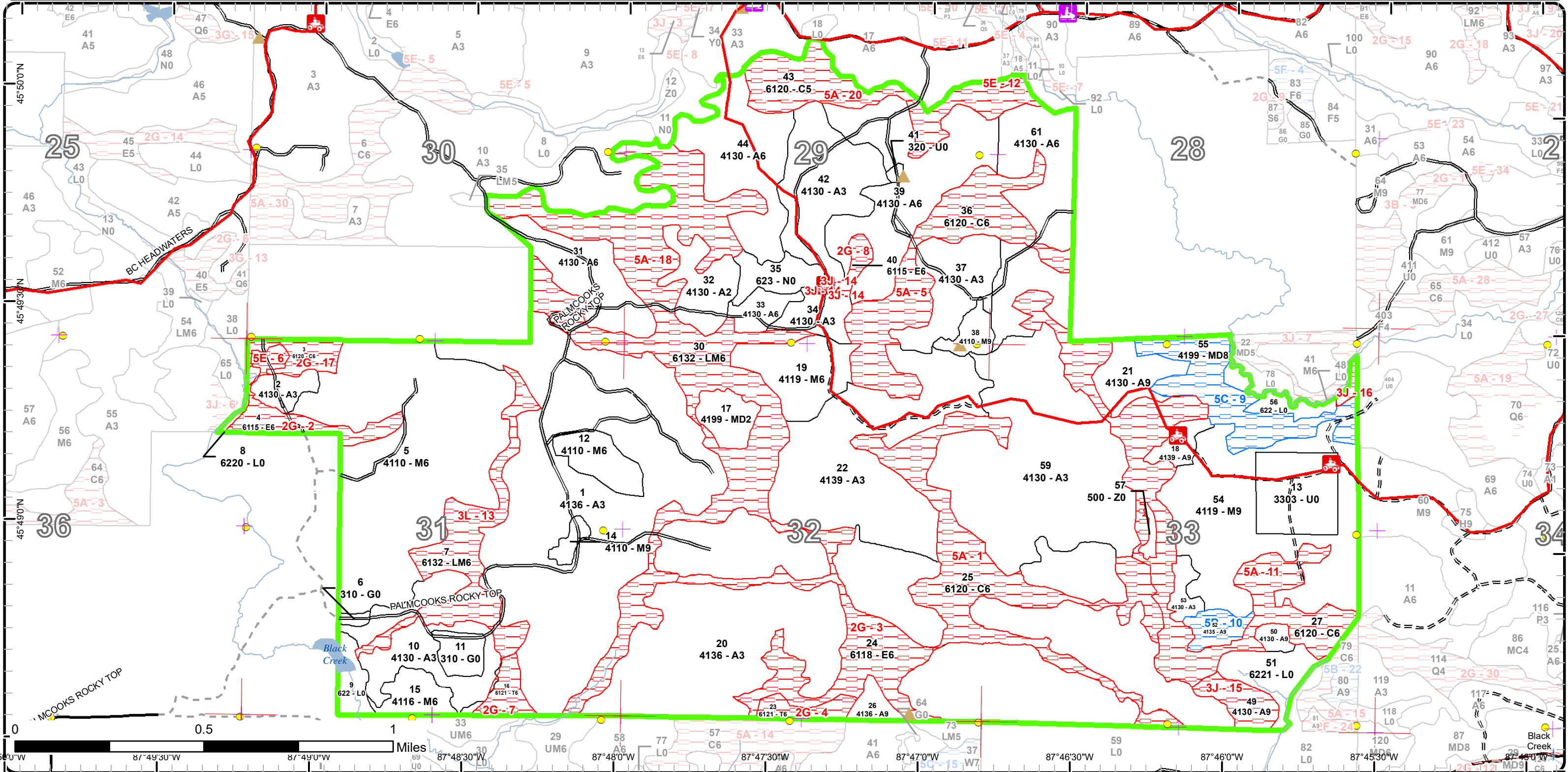


# Special Conservation Areas

Compartment: 109  
 T40N, R28W, Sec. 28-33  
 T40N, R29W, Sec. 36  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2022  
 Acres: 2287.1 GIS Calculated  
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- Miris Corners
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- 🚲 ORV Trails
- Designated ATV
- Designated Snowmobile Trails
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



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	400	110	453	33	192	17	0	0	0	24	0	0	0	0	0	0	6	1235
Cedar	0	0	0	0	0	0	0	0	61	0	47	181	0	0	0	0	0	0	289
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	63	68
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	165	0	43	0	0	0	0	0	0	208
Lowland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	12	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	29	0	158	0	23	110	0	0	0	0	0	0	320
Tamarack	0	0	0	0	0	0	0	9	0	0	8	0	0	0	0	0	0	0	17
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>93</b>	<b>412</b>	<b>110</b>	<b>453</b>	<b>33</b>	<b>192</b>	<b>46</b>	<b>9</b>	<b>219</b>	<b>207</b>	<b>107</b>	<b>334</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>2284</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2022

Compartment 109  
Total Compartment Acres: 2,287

### Acres of Harvest

Commercial Harvest - 153  
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	138	0	0	0	0	0	0	0	0	138
Northern Hardwood	0	0	0	0	0	15	0	0	0	15
<b>Total</b>	<b>138</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>153</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	153	0	0	0	0	29	0	0	0	183
Next Step	0	29	0	0	0	0	138	0	0	167
<b>Total</b>	<b>153</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>138</b>	<b>0</b>	<b>0</b>	<b>350</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	Habitat Cut
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**Proposed Treatments:**

12	12109012-Cut	15.4	4110 - Sugar Maple Association	Poletimber Well	91	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	No
<p><u>Prescription</u> thin to 80 -90 BA following complete marker. Leave oak, pine and beech if healthy</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
21	12109021-Cut	17.3	4130 - Aspen	Sawtimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut 2" spec. Leave Cedar, Hemlock and Cherry if present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Birch, Cherry, Spruce, Fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
39	12109039-Cut	68.8	4130 - Aspen	Poletimber Well	49	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> ClearCut using a 2" spec. Leave Cedar, White Pine, Hemlock and Cherry if present.. Where available, leave submerchantable conifer patches measuring 10 -20 feet in diameter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Birch, Spruce, Fir</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention is uncut strip seperating the two units.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>44</b>	<b>12109044-Cut</b>	51.7	4130 - Aspen	Poletimber Well	49		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest using a 2" spec. Leave Cedar, Pine, Cherry and Hemlock if present. Where available, leave sub-merchantable conifer patches  
Specs: measuring 10 -20 feet in diameter. .

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Regen: Aspen, Balsam, Spruce, Maple, Birch

Other Comment: Orv trail goes through stand.

Site Condition

Proposed Start Date: 10/1 /2021

<b>13</b>	<b>12109054.9_S pray</b>	29.3	3303 - Mixed Low Density Trees	Nonstocked	0		Pesticide	ERROR	411 - Northern Hardwood	Even-Aged	No
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Prescription Herbicide and scarify per MSU research guidelines.  
Specs:

Next Step SitePrep, Scarification  
Treatments:

Acceptable Regen: Maple

Other Comment: Percent to treat = 83%

Site Condition

Proposed Start Date: 10/1 /2019

**Total Treatment** 182.5  
**Acreage Proposed:**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Rich Goupell : Examiner

Compartment: 109  
Year of Entry: 2022



### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	2G	3J	3L	5A	5E	
1236	1212	9	16	Aspen	9		0	12				3
289	0	0	289	Cedar			10			278		1
10	10	0	0	Herbaceous Openland								
30	30	0	0	Low-Density Trees								
68	0	0	68	Lowland Deciduous			68	0				
208	0	0	208	Lowland Mixed Forest					43	165		
37	37	0	0	Lowland Shrub								
13	13	0	0	Marsh			0					
54	12	40	2	Mixed Upland Deciduous		40		2				
321	321	0	0	Northern Hardwood								
17	1	0	16	Tamarack			16					
1	1	0	0	Upland Shrub								
2	2	0	0	Water								
2,287	1,640	48	599	Total Forested Acres	9	40	95	14	43	443	4	
	72%	2%	26%	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
1	Unavailable	5A: Not able to obtain desirable regeneration	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 109

Year of Entry: 2022



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	5A: Not able to obtain desirable regeneration	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 109

Year of Entry: 2022



9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	93	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	43	3J: Water quality / BMPs (stream, river, or lake)			
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	0				
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 109

Year of Entry: 2022



15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	12	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer to Cassidy Creek							
17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10				
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	165	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – 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
<b>Comments</b>				



### Report 6 – 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4136 - Aspen, Mixed Conifer	Sapling Well	227.3	23	Immature	N/A	Part of Black Creek Aspen sale.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		75	Sapling/Pole	4	23	Balsam Fir	
Balsam Poplar		5	Sapling/Pole	4		Low	
Northern White Cedar		5	Pole	8		5 - 10 feet	
Hemlock		5	Pole	8		Sapling	
White Pine		10	Log	12			
2	4130 - Aspen	Sapling Well	11.7	5	Immature	N/A	Harvested 2016. Northern lobe retained for retention/BMP reasons approximately 3 acres.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		80	Sapling	1	5	Balsam Fir	
Balsam Fir		15	Sapling	3		Low	
Quaking Aspen		3	Log	14		5 - 10 feet	
Red Maple		1	Log/Pole	10		Sapling	
Paper Birch		1	Pole/Log	9			
3	6120 - Lowland Cedar	Poletimber Well	10.3	104		N/A	Short, small diameter trees with thick patches of tag alder scattered in. Most of the balsam has died out.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		5	Pole/Sapling	5		Tag Alder	
White Spruce		10	Pole	7		Low	
Northern White Cedar		50	Pole	9	104	5 - 10 feet	
Tamarack		10	Pole	7		Tall Shrub	
Black Ash		25	Pole	6			
4	6115 - Lowland Ash	Poletimber Well	14.1	91	141-170	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		10	Pole	8		Balsam Fir	
White Spruce		15	Log/Pole	10		Low	
Northern White Cedar		15	Pole	8		Variable	
Black Ash		60	Pole	8	91	5 - 10 feet	
						Tall Shrub	
5	4110 - Sugar Maple Association	Poletimber Well	157.8	74	81-110	N/A	Small, short hardwood on high rock site with valleys to the East. Some areas have had removals of aspen and birch, but the character of the stand is similar enough to keep it as one stand. Trace of Hemlock and Cedar
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		60	Pole	8	74	Balsam Fir	
Red Maple		10	Pole	8		Low	
Basswood		10	Log/Pole	11		Variable	
White Ash		10	Log/Pole	10		5 - 10 feet	
Beech		2	Pole	8		Sapling	
Paper Birch		4	Pole	9		Medium	
Balsam Fir		4	Pole	8		10 - 20 feet	
						Sapling	
						Sapling	
						Sapling	
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6	310 - Herbaceous Openland	Nonstocked	1.7			No																																																					
7	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	43.3	105	111-140	N/A	bed and bank runs through stand. most of the balsam has died out.																																																				
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8	6220 - Alder/willow	Nonstocked	1.8			No	OPIC - FMD: OI Stand Year Origin was																																																				
9	622 - Lowland Shrub	Nonstocked	9.4			No																																																					
10	4130 - Aspen	Sapling Well	39.4	5	Immature	N/A	Harvested 2016. Scattered large pine left from last cut.																																																				
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11	310 - Herbaceous Openland	Nonstocked	8.7			No																																																					
12	4110 - Sugar Maple Association	Poletimber Well	15.4	91	111-140	N/A	Aspen was removed during the last year of entry. There are some thick patches, but it should probably be thinned in the next entry period. Found a few Beech trees and some White Pine.																																																				
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13	3303 - Mixed Low Density Trees	Nonstocked	30.0	0		4110 - Sugar Maple Association	Stand was thinned about 7 years ago																																																				
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14	4110 - Sugar Maple Association	Sawtimber Well	4.3	104	51-80	N/A	Trace of Beech and White Pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		75	Log/Pole	10	104	Quaking Aspen	
Basswood		25	Log	14		Ironwood	
						Density	
						Avg. Height	
						Size	
						Medium	
						>20 feet	
						Sapling	
						High	
						5 - 10 feet	
						Tall Shrub	
						Thinned 2016	
15	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	12.6	104	81-110	N/A	Thin soils with stunted hardwood and aspen.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		52	Pole	7	104	Sugar Maple	
Red Maple		10	Pole	6		Ironwood	
Basswood		10	Log	12		Balsam Fir	
Red Oak		8	Log	16		White Pine	
Quaking Aspen		15	Log/Pole	12			
Bigtooth Aspen		5	Log/Pole	11			
						Density	
						Avg. Height	
						Size	
						Medium	
						10 - 20 feet	
						Sapling	
						Medium	
						10 - 20 feet	
						Tall Shrub	
						Low	
						Variable	
						Sapling	
						Low	
						Variable	
						Sapling	
16	6121 - Tamarack	Poletimber Well	9.4	69		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		3	Pole	6		Tag Alder	
Quaking Aspen		3	Pole	9			
Tamarack		94	Pole	8	69		
						Density	
						Avg. Height	
						Size	
						Low	
						5 - 10 feet	
						Tall Shrub	
17	4199 - Other Mixed Upland Deciduous	Sapling Medium	12.1	5	Immature	N/A	Harvested 2016. Scattered Hemlock
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		25	Sapling	4	5		
Quaking Aspen		35	Sapling	1	5		
Balsam Fir		10	Sapling	2			
Sugar Maple		15	Sapling	1			
Ironwood		15	Sapling	1			
18	4139 - Aspen, Mixed Deciduous	Sawtimber Well	7.3	21	81-110	N/A	Most of the Spruce/Fir has died out.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		50	Log	11	55	Balsam Fir	
Red Maple		45	Log/Pole	10		Hazelnut (Spp.)	
Black Cherry		5	Log/Pole	11		Quaking Aspen	
						Density	
						Avg. Height	
						Size	
						Low	
						5 - 10 feet	
						Sapling	
						Medium	
						5 - 10 feet	
						Tall Shrub	
						High	
						>20 feet	
						Sapling	
19	4119 - Mixed Northern Hardwoods	Poletimber Well	29.3	52	81-110	N/A	This stand is quite varied. The aspen was cut out about 15 yrs ago and now it has patches of cedar and hardwoods on an upland site.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		70	Pole	8	52	Quaking Aspen	
Basswood		5	Pole	8			
White Spruce		10	Log/Pole	10			
Northern White Cedar		15	Pole	8			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
20	4136 - Aspen, Mixed Conifer	Sapling Well	318.6	5	Immature	N/A	Harvested 2016. Large White, Red Pine, Cedar, Hemlock left when cut. Rock outcrops through out rough terrain.																																																									
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24	6118 - Lowland Deciduous with Cedar	Poletimber Well	49.0	91		N/A																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	6120 - Lowland Cedar	Poletimber Well	77.7	104		N/A	Small pockets of aspen, maple and birch.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	9	
Paper Birch	5	Pole	8	
Black Ash	20	Pole/Log	9	
Northern White Cedar	60	Log/Pole	10	104
Quaking Aspen	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Black Ash	Low	< 5 feet	Sapling

<b>26</b>	4136 - Aspen, Mixed Conifer	Sawtimber Well	6.1	86		N/A	Minor amounts of Black Spruce and Cherry.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Log	12	86
Red Pine	10	Log/Pole	10	
Paper Birch	15	Log/Pole	10	
Northern White Cedar	5	Pole	8	
White Pine	5	Log/XLog	14	
Red Maple	25	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
White Pine	Low	5 - 10 feet	Sapling

<b>27</b>	6120 - Lowland Cedar	Poletimber Well	92.7	101		N/A	Black ash drainages on West side.Trace of yellow and white birch
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	8	
White Spruce	5	Pole	9	
Northern White Cedar	60	Pole	9	101
Black Ash	15	Pole	7	
Quaking Aspen	8	Log/Pole	12	
Tamarack	7	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	Low	< 5 feet	Sapling

<b>30</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	164.6	86		N/A	Several fingers of pure Black Ash. Main body of stand is heavy to Cedar. Smaller diameters than surrounding lowlands.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	8	Pole/Sapling	5	
Black Spruce	5	Pole/Sapling	5	
Northern White Cedar	45	Pole	6	86
Tamarack	7	Pole/Sapling	5	
Black Ash	30	Pole/Sapling	6	
Paper Birch	3	Pole	8	
Balsam Fir	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Tamarack	Low	Variable	Sapling
Black Ash	Medium	Variable	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>31</b>	4130 - Aspen	Poletimber Well	33.3	37		N/A	Starting to reach merchantability size. Scattered supercanopy conifers throughout. Very rocky terrain with small lowland inclusions. Drainages everywhere.																																																			
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<b>32</b>	4130 - Aspen	Sapling Medium	21.3	23	Immature	N/A	Some overstory trees left from harvest. Very patchy harvest last time leaving clumps of conifers mixed throughout.																																																			
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<b>33</b>	4130 - Aspen	Poletimber Well	8.9	45	Unspecified	N/A	Wetter upland site. Whole stand is transition zone.																																																			
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<b>35</b>	623 - Emergent Wetland	Nonstocked	13.0		Immature	No																																																				
<b>36</b>	6120 - Lowland Cedar	Poletimber Well	61.4	79	Unspecified	N/A	Open areas are heavy to tag alder. Younger stand. Majority of stand is Cedar.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>37</b>	4130 - Aspen	Sapling Well	30.4	6	Immature	N/A	Evernally Yours TS cut 2015		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		80	Sapling	1	6				
Red Maple		10	Sapling	1					
Bigtooth Aspen		10	Sapling	1					
<b>38</b>	4110 - Sugar Maple Association	Sawtimber Well	7.9	96	81-110	N/A	Poor quality hardwood stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		60	Log/Pole	10	96	Balsam Fir	Low	Variable	Sapling
Basswood		35	Log/Pole	11		Ironwood	Low	Variable	Sapling
Paper Birch		5	Log/Pole	10		Leatherwood	Medium	< 5 feet	Tall Shrub
<b>39</b>	4130 - Aspen	Poletimber Well	71.1	49	Unspecified	N/A	Thick understory of Spruce/Fir. Large Pines scattered within stand. Small wet drainages throughout.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		80	Pole	9	49	Balsam Fir	High	Variable	Sapling
Balsam Poplar		5	Pole	8		White Spruce	High	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
White Spruce		10	Pole	6					
<b>40</b>	6115 - Lowland Ash	Poletimber Well	5.1	97	81-110	N/A	Drainage through stand not enough acreage after buffer.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		5	Pole	6					
Black Ash		85	Pole/Log	8	97				
Quaking Aspen		2	Pole/Log	8					
Balsam Poplar		3	Log/Pole	10					
<b>41</b>	320 - Upland Shrub	Nonstocked	1.1		Immature	No	Cherry and Aspen starting to fill in the opening.		
<b>42</b>	4130 - Aspen	Sapling Well	47.7	23	Immature	N/A	Some overstory trees left from harvest. Very patchy harvest last time leaving clumps of conifers mixed throughout.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		90	Sapling	3	23	Balsam Fir	Low	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>43</b>	6120 - Lowland Cedar	Poletimber Medium	47.0	96	Unspecified	N/A	Bad windthrow along edges of stand. Within middle, small pockets of Cedar/Black Spruce. Veins of Black Ash throughout. Bed and bank of stream found where type lines narrow.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		5	Log	12		Paper Birch		
Balsam Fir		5	Sapling/Pole	4		Tamarack		
Black Spruce		15	Pole	5		Tag Alder		
Northern White Cedar		50	Pole	6	96			
Tamarack		5	Sapling/Pole	6				
Black Ash		20	Pole	6				
<b>44</b>	4130 - Aspen	Poletimber Well	51.7	49		N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		60	Pole	7	49	Balsam Fir		
Balsam Fir		15	Pole/Sapling	5				
Balsam Poplar		15	Pole	6				
Red Maple		10	Pole	6				
<b>49</b>	4130 - Aspen	Sawtimber Well	12.0	91	Unspecified	N/A	Almost all spruce fir is dead. It was 20 to 90 % of stand. Site topo is rock ridges with drainages. Operable for harvest operations, but portions of stand may be left out.	
<b>50</b>	4130 - Aspen	Sawtimber Well	3.9	91		N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Pole	8		Balsam Fir		
Paper Birch		5	Pole	8		White Spruce		
Quaking Aspen		60	Log	12	91			
Northern White Cedar		10	Pole	8				
Bigtooth Aspen		20	Log	12				
<b>51</b>	6221 - Fen	Nonstocked	17.2			No		
<b>52</b>	4135 - Aspen, Cedar	Sawtimber Well	8.5	91		N/A	This stand has well stocked fingers of cedar growing throughout. Harvesting the aspen would destroy the cedar and there are enough White pines in the area to replace the aspen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
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Quaking Aspen		30	Log	12	91	Northern White Cedar		
Balsam Fir		5	Pole	8		Ironwood		
White Spruce		5	Log/Pole	11		Hazelnut (Beaked)		
Northern White Cedar		20	Pole	8				
Bigtooth Aspen		30	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>53</b>	4130 - Aspen	Sapling Well	6.3	12	Immature	N/A	The aspen was cut out of the stand about 11 years ago.																																																			
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<b>54</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	93.5	101	81-110	N/A	Stand was thinned about 7 years ago. Experimental MWR sale was completed within the stand at approximately 30 acres in 2017. Sale name was Hilltop MWR. sale number 12-007-17.																																																			
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<b>55</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	41.5	81	81-110	N/A	Budworm killed 80% of spruce fir. It looks like this will become a red maple stand. Aspen is not thick enough to restock stand. The top is 30 ft rock knobs with many drainages. Some White pine in stand. It should seed regenerate.																																																			
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<b>56</b>	622 - Lowland Shrub	Nonstocked	8.9		Immature	No																																																				
<b>57</b>	500 - Water	Nonstocked	2.3			No																																																				
<b>59</b>	4130 - Aspen	Sapling Well	137.7	29	Immature	N/A	Patches of hardwoods were left on rock knobs when last cut.																																																			
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