



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 12101

Entry Year 2022

Acreage: 1,993

County Dickinson

Management Area: Groveland

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

**Stand Examiner:** Rich Goupell

**Legal Description:**

Township 41 North Range 29 West Sections 31 and 32  
Township 40 North Range 30 West Sections 1, 2, 3, 11, and 12.

**Identified Planning Goals:**

Maintaining diversity in the hardwood types, while improving quality. keep and maintain the age class diversity in the aspen stands. Maintain the conifer stands.

**Soil and topography:**

Shallow soils and rock outcrops.

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

Some private in the compartment and to the south.

**Unique Natural Features:**

Rock cliffs

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

None

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Seiberts Creek.

This compartment contains Pine Creek, Seiberts Creek, Lost Lake Creek and associated tributaries. All waterbodies are designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended for all waterbodies listed whose riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

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

The nearest active sand/gravel pit is located less than miles to the west. 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 three 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, and there has been some exploration of potential kimberlite deposits to the northeast. While kimberlites have been documented in the western UP, none have been shown to contain commercial quantities of diamonds or diamonds of high quality. 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:**

Carney Lake Road to the north. Access is limited to the south through private.

**Survey Needs:**

some corners may be needed

**Recreational Facilities and Opportunities:**

Carney Lake Campground is just to the east.

**Fire Protection:**

Felch and Norway protection areas

**Additional Compartment Information:**

The following reports from the Inventory are attached:

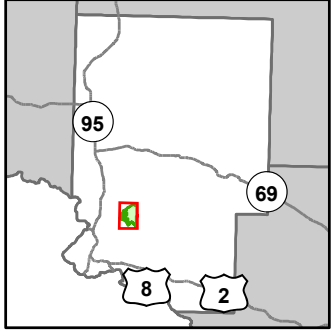
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

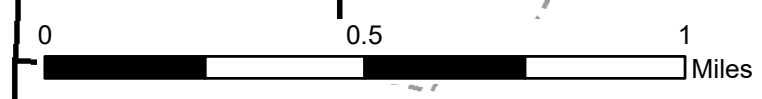
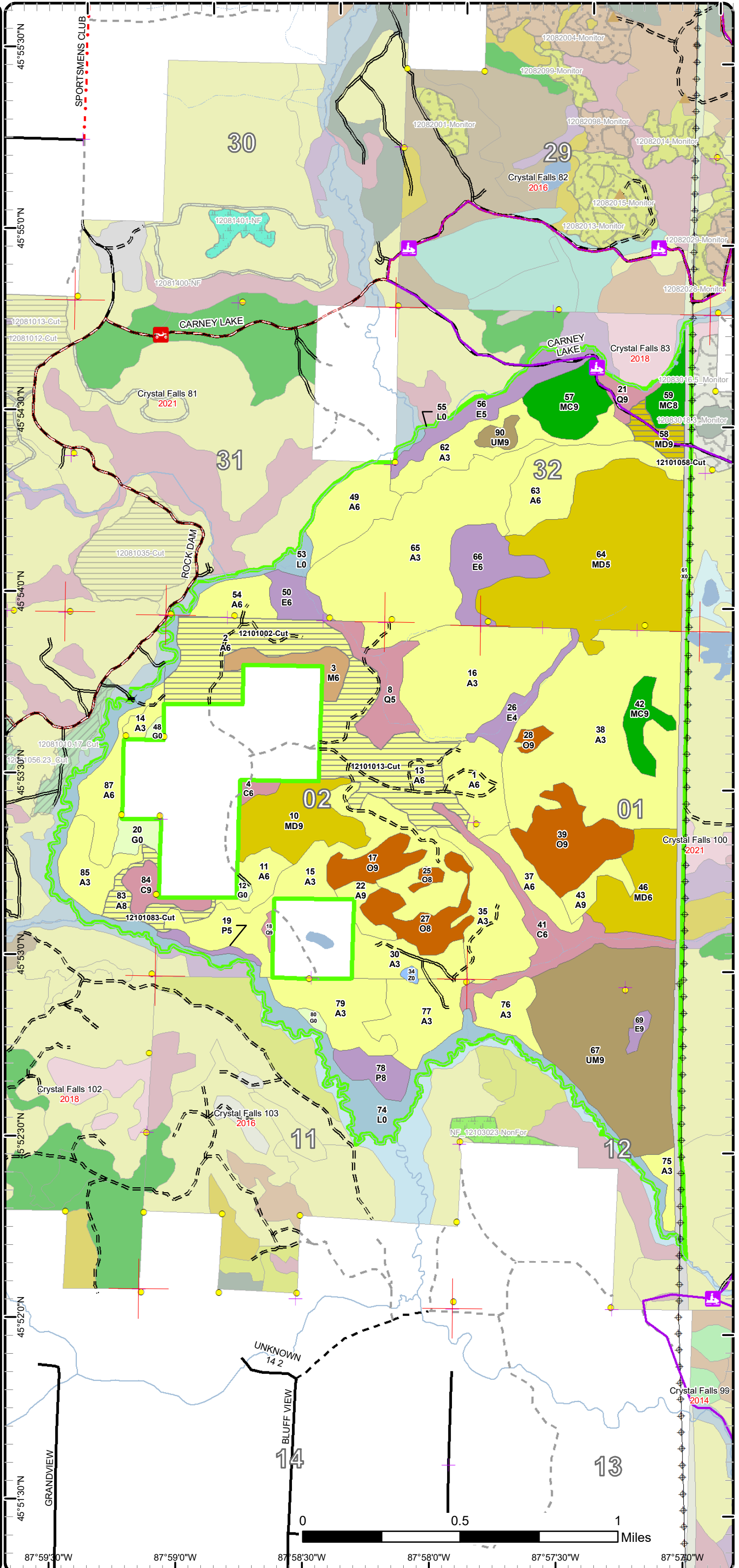
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

# Cover Type & Treatments Map

Compartment: 101  
 T41N, R29W, Sec. 31, 32  
 T40N, R30W, Sec. 1-3, 11, 12  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Groveland  
 YOE: 2022  
 Acres: 1993.5 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 1/26/2021  
 Map Phase: Post-Review



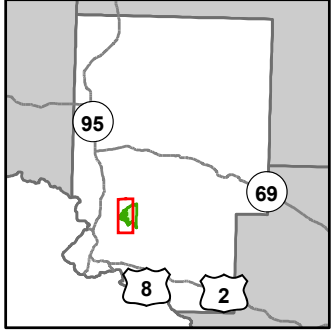
- Miris Corners
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- 419 - Mixed Upland Deciduous
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- 621 - Floating Aquatic
- 622 - Lowland Shrub



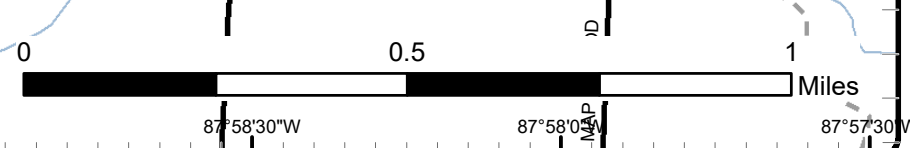
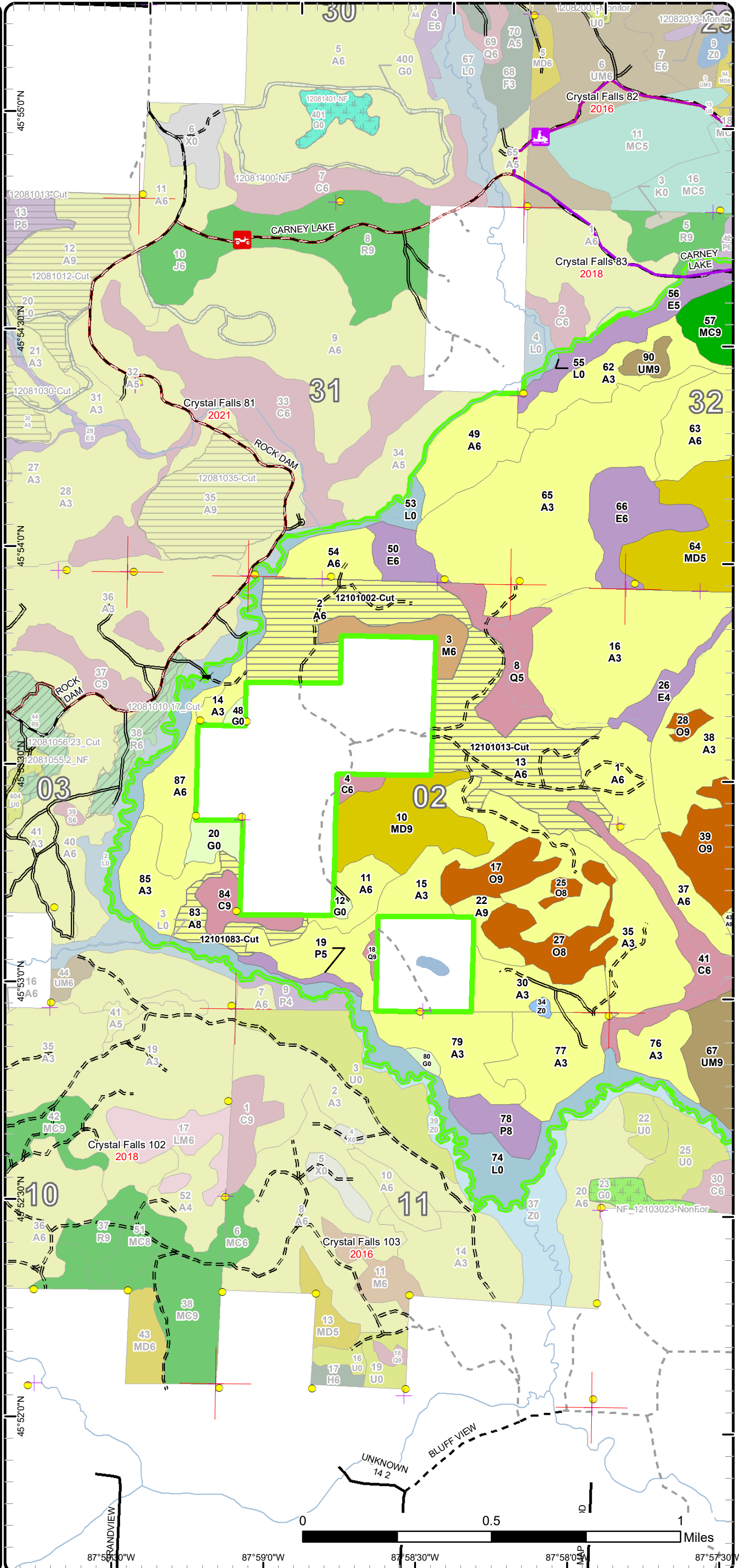
87°59'30"W    87°59'0"W    87°58'30"W    87°58'0"W    87°57'30"W    87°57'0"W

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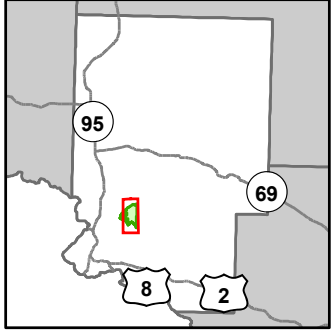


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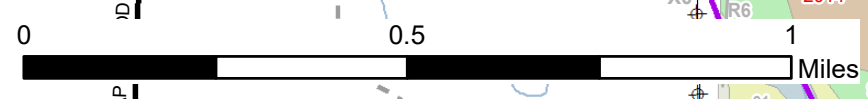
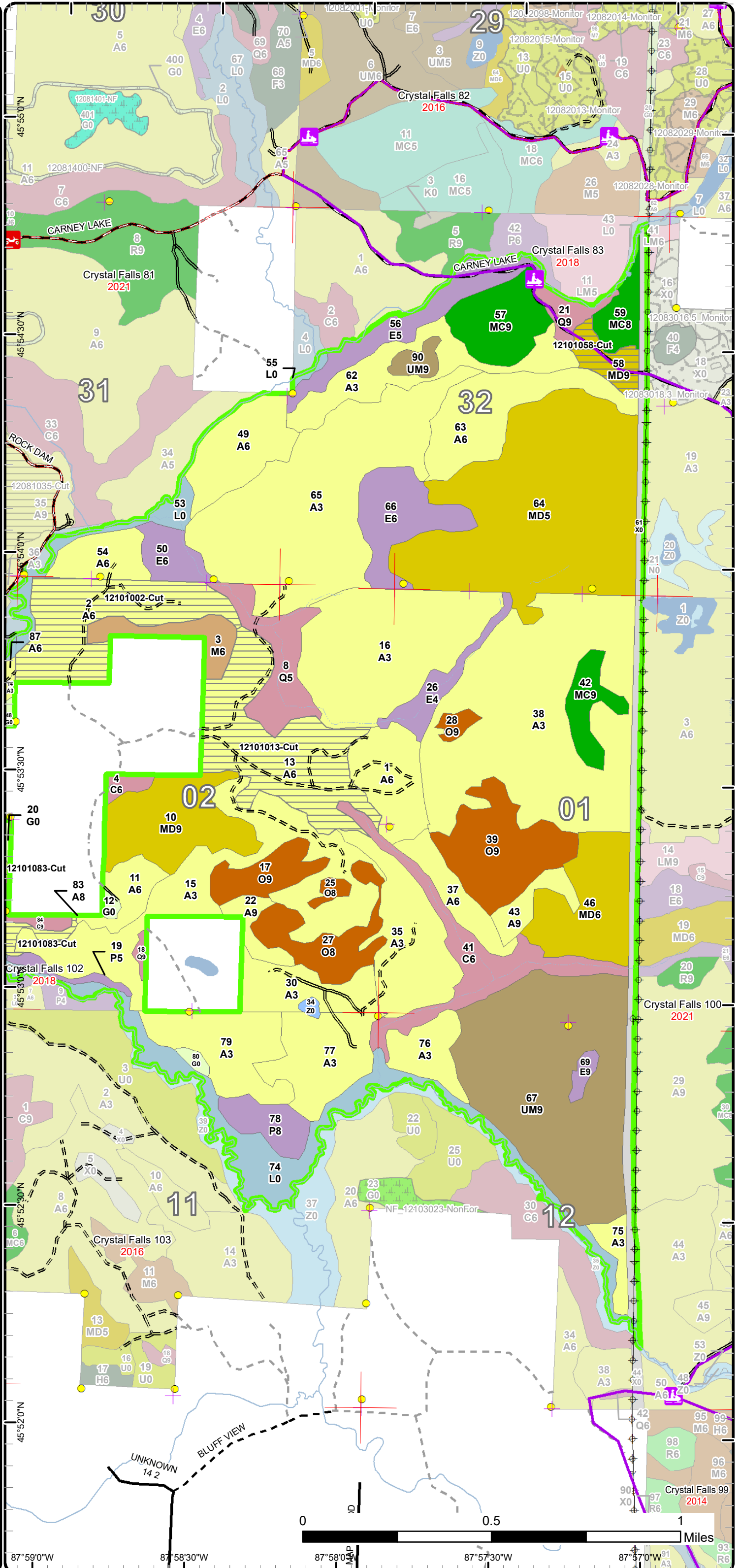


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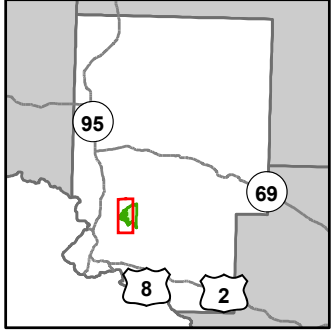
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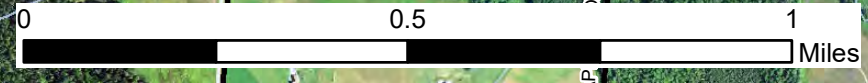
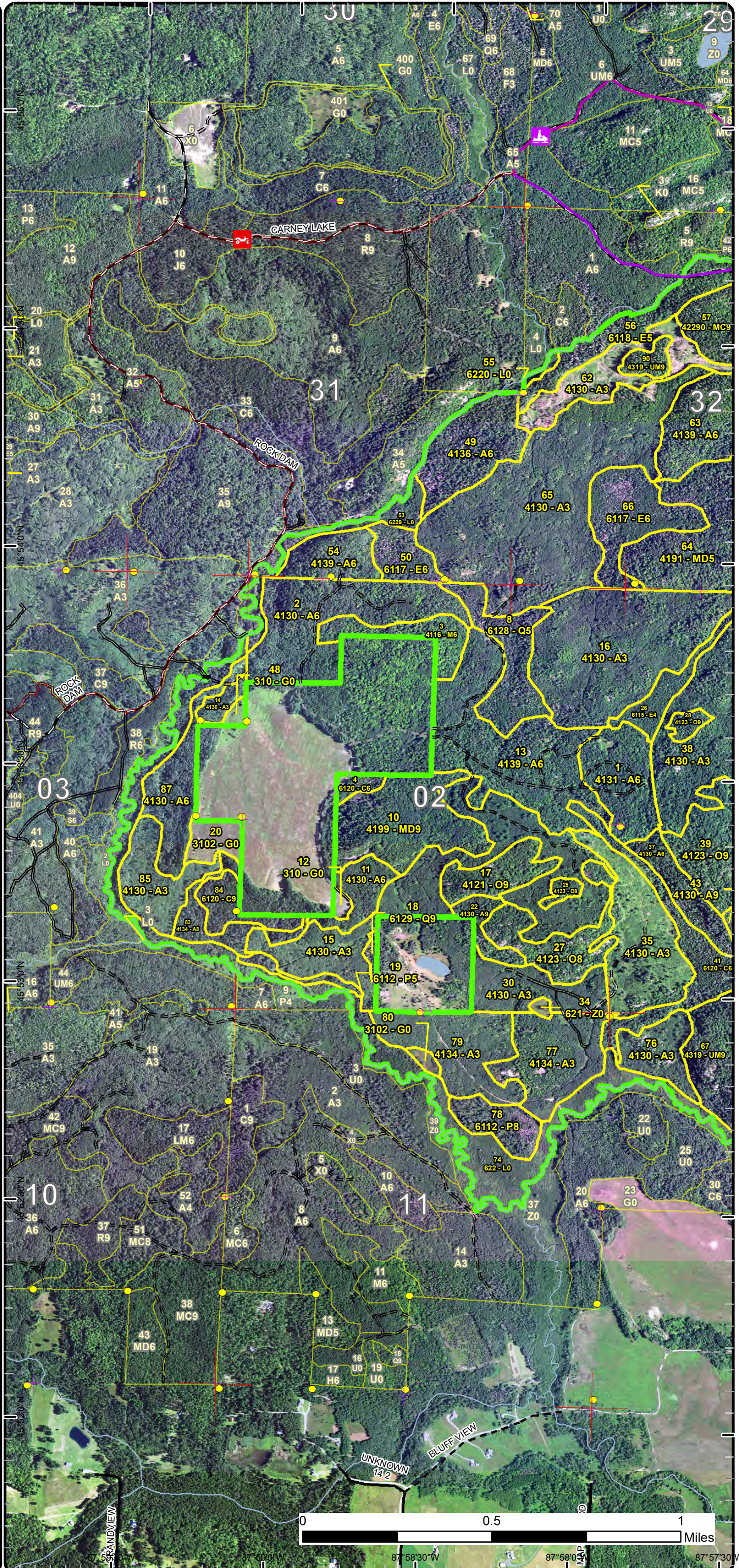
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# Stand Boundary Map

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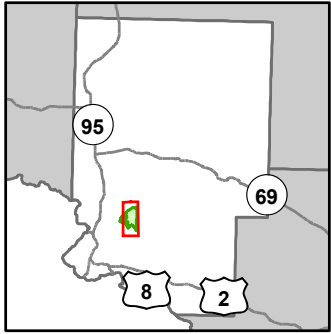
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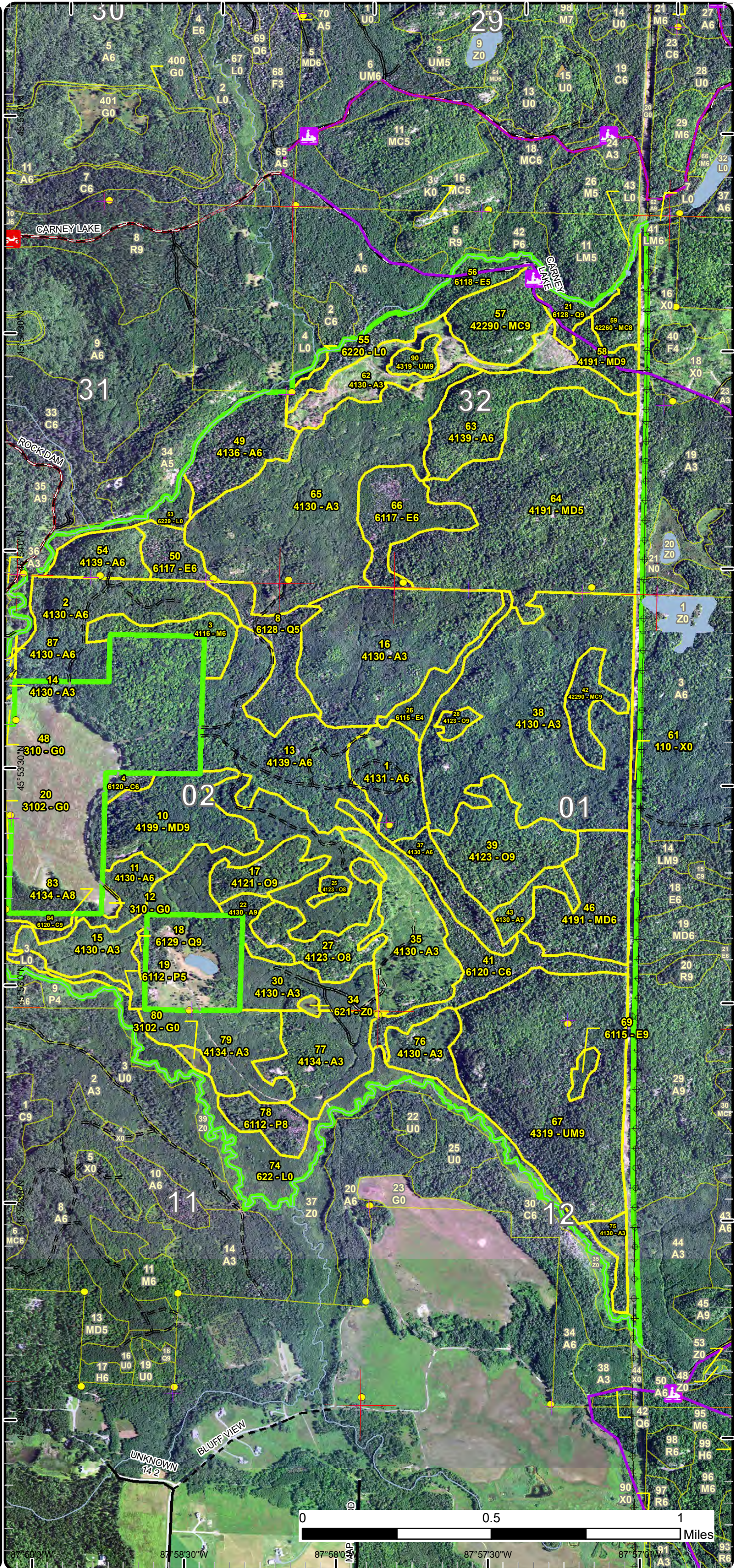
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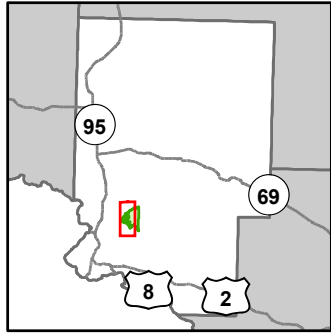


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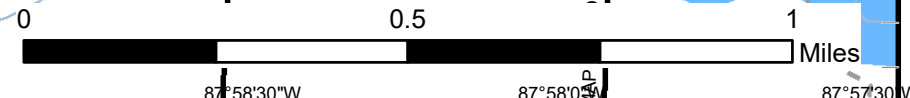
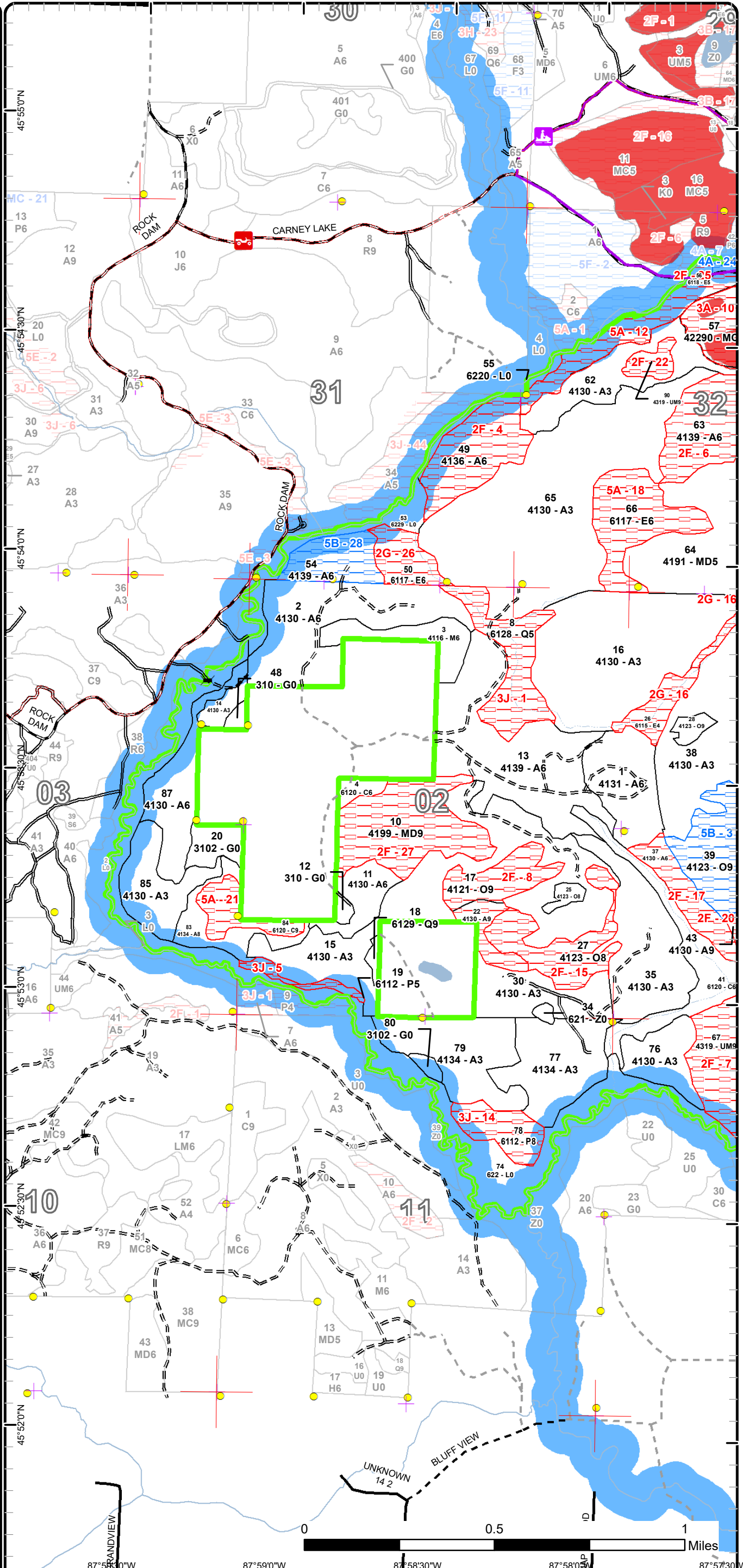


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer

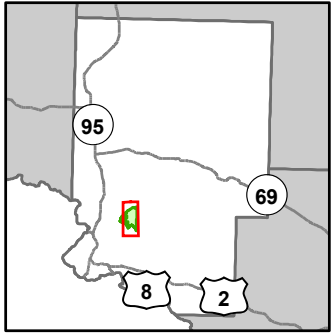


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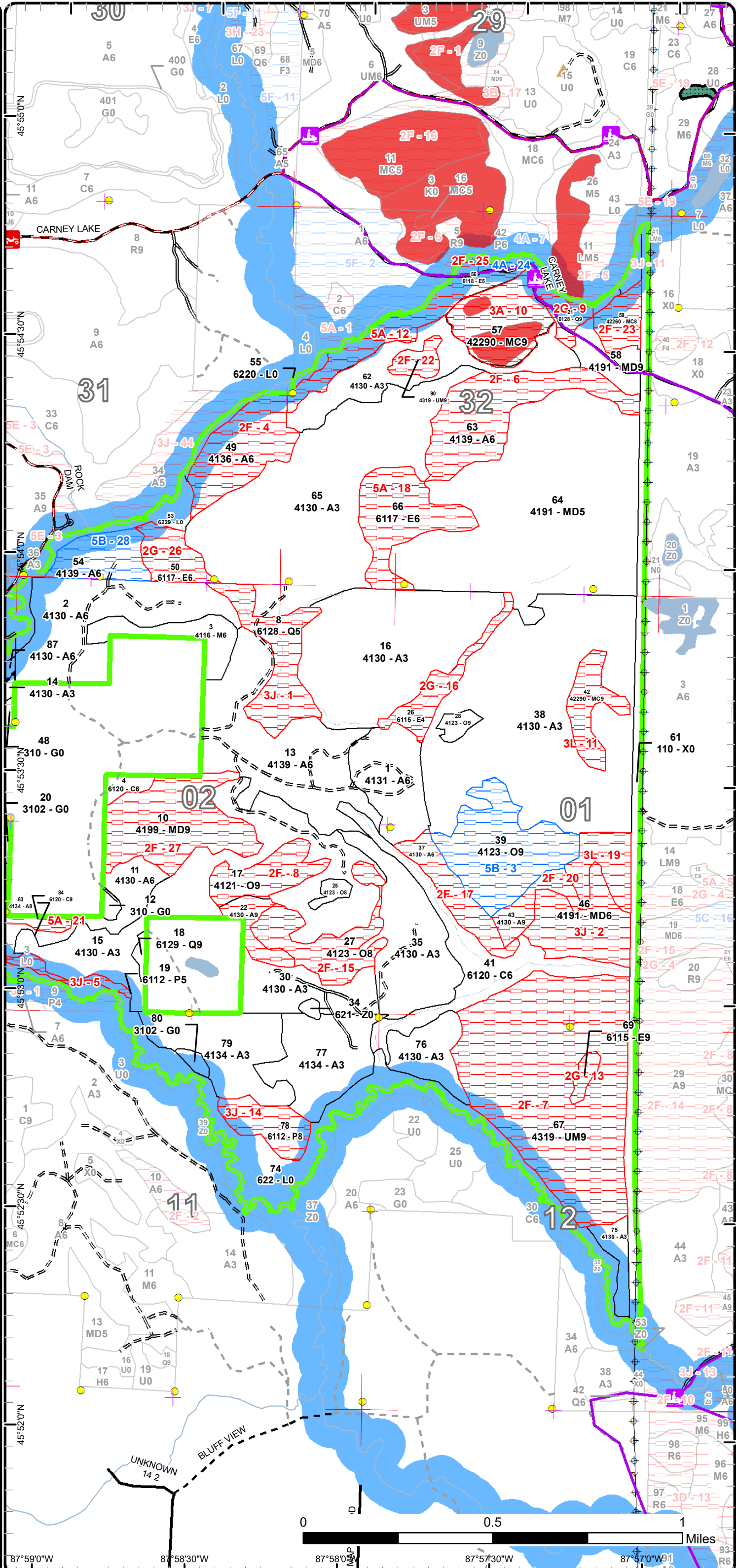


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- 4A: No Markets Available for these Forest Products
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- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor



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	81	196	456	0	40	92	57	118	0	10	0	0	0	0	0	0	0	1049
Cedar	0	0	0	0	0	0	0	0	0	0	17	40	0	0	0	0	0	0	56
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	11	39
Lowland Deciduous	0	0	0	0	0	0	13	32	0	13	33	0	0	0	0	0	0	0	91
Lowland Shrub	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	44	46	0	0	0	0	0	0	174	264
Natural Mixed Pines	0	0	0	0	0	0	0	0	29	0	15	0	0	0	0	0	0	13	57
Northern Hardwood	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	51	0	0	45	0	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	146	0	0	0	0	0	0	0	0	146
Urban	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>Total</b>	<b>161</b>	<b>81</b>	<b>196</b>	<b>456</b>	<b>0</b>	<b>40</b>	<b>105</b>	<b>89</b>	<b>218</b>	<b>247</b>	<b>121</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>198</b>	<b>1995</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2022

Compartment 101  
Total Compartment Acres: 1,993

### Acres of Harvest

Commercial Harvest - 157  
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	145	0	0	0	0	0	0	0	0	145
Mixed Upland Deciduous	12	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>157</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>157</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	157	0	0	0	0	0	0	0	0	157
Next Step	0	0	0	0	0	157	0	0	0	157
<b>Total</b>	<b>157</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>157</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>314</b>



Stand	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:**

<b>2</b>	<b>12101002-Cut</b>	57.4	4130 - Aspen	Poletimber Well	61	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut using 2" spec, leave Hemlock, Pine, Oak if present.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Maple, Birch, Spruce, Fir,  <u>Other Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>13</b>	<b>12101013-Cut</b>	73.5	4139 - Aspen, Mixed Deciduous	Poletimber Well	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut 4" spec, leave Hemlock, Pine, Oak if present  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Maple, Birch, Oak, Pine Hemlock, Spruce, Fir  <u>Other Comment:</u></p> <p><u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>58</b>	<b>12101058-Cut</b>	11.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	74	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut 2" spec leave Cedar, Hemlock, Pine and Oak if present.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Birch, Maple, Oak, Pine, Spruce, Fir  <u>Other Comment:</u> No retention due to small acreage.</p> <p><u>Site Condition</u>  <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
83 12101083-Cut	14.5	4134 - Aspen, Spruce/Fir	Sawtimber Medium	78		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut 2" spec leave Cedar Pine, Cherry and Oak if present.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Birch Maple, Spruce, Fir, Pine  <u>Other Comment:</u> Leave coridor between stands 84 and 74 this will be the retention. Ok to skid through the retention.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: **157.1**

# Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Rich Goupell : Examiner

Compartment: 101  
Year of Entry: 2022



### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
921	1,327	67	600
	67%	3%	30%

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions								
					4A	5B	2F	2G	3A	3J	3L	5A	
1049	921	18	111		Aspen	18	110	0	0	0		0	
57	44	0	12		Cedar		0			0		12	
16	16	0	0		Herbaceous Openland								
20	0	0	20		Lowland Aspen/Balsam Poplar					20			
38	3	0	35		Lowland Conifers	0		8	0	28			
91	0	4	87		Lowland Deciduous	4	2	30	0			56	
103	102	0	0		Lowland Shrub					0			
263	174	0	90		Mixed Upland Deciduous		46			28	16		
57	3	0	54		Natural Mixed Pines	0	10		29		15	0	
16	16	0	0		Northern Hardwood								
95	7	45	43		Oak		45	43					
146	0	0	146		Upland Mixed Forest		146						
41	40	0	1		Urban					1			
1	1	0	0		Water								
1,994	1,327	67	600		Total Forested Acres	4	63	357	38	29	77	31	68
	67%	3%	30%		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	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Creeks running throughout this stand							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Rich Goupell : Examiner

Compartment: 101  
Year of Entry: 2022



3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2F: Too steep</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2F: Too steep</b>	140	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2F: Too steep</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 101

Year of Entry: 2022



10	Unavailable	3A: Conservation Values incompatible with harvest at this time	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3L: Other wildlife concerns	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5A: Not able to obtain desirable regeneration	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rock and buffer							
15	Unavailable	2F: Too steep	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 101

Year of Entry: 2022



16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>2F: Too steep</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	32	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>2F: Too steep</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2F: Too steep</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Rich Goupell : Examiner

Compartment: 101  
Year of Entry: 2022



23	Unavailable	2F: Too steep	10				
Comments:							
24	Available	4A: No Markets Available for these Forest Products	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13				
Comments:							
27	Unavailable	2F: Too steep	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4131 - Aspen, Oak	Poletimber Well	29.6	26	51-80	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	10	Log/Pole	12				
Red Maple	5	Pole	8				
Red Oak	35	Log	12	81			
Paper Birch	5	Pole	8				
Bigtooth Aspen	45	Sapling	3	26			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Balsam Fir	Low	5 - 10 feet	Sapling				
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub				
2	4130 - Aspen	Poletimber Well	57.4	61	111-140	N/A	Trace of red oak. a few different age classes of aspen.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	10	Pole	7	32			
Red Maple	10	Pole/Log	8	32			
Quaking Aspen	70	Pole	9	61			
Hemlock	5	Log/Pole	10				
Paper Birch	5	Pole	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub				
3	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.4	81	51-80	N/A	Steep N slope with 90% mortality on w birch. Hdwd has low ba on east side of std with clumps of large aspen.. Hdwd poor and multi stemmed.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	45	Pole	8	81			
Red Maple	30	Pole/Log	9				
Paper Birch	5	Pole	9				
Quaking Aspen	10	Log/Pole	11				
Bigtooth Aspen	10	Log	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	Variable	Sapling				
Balsam Fir	Low	< 5 feet	Sapling				
Ironwood	Medium	< 5 feet	Sapling				
4	6120 - Lowland Cedar	Poletimber Well	4.1	95		N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	10	Log	12				
Balsam Fir	2	Pole	8				
Black Spruce	18	Pole/Log	9				
Northern White Cedar	70	Pole/Log	9	95			
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	5 - 10 feet	Sapling				
Tag Alder	Low	5 - 10 feet	Tall Shrub				
8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	27.7	81	81-110	N/A	Areas of pure tag alders scattered around the stand. Bed and bank flows through stand not worth cutting after buffer is removed
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	15	Pole	8				
Quaking Aspen	15	Pole/Log	9				
Balsam Fir	10	Pole	9				
White Spruce	10	Pole/Log	9				
Black Spruce	10	Pole	9				
Northern White Cedar	10	Pole	8				
Tamarack	30	Pole/Log	9	81			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	5 - 10 feet	Sapling				
Balsam Fir	Low	5 - 10 feet	Sapling				
Tag Alder	Medium	10 - 20 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	46.0	95	81-110	N/A	There is a small, wet hardwood patch in the middle of this stand. There are small aspen inclusions of mini clearcuts about 25 years old.																																																									
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11	4130 - Aspen	Poletimber Well	13.4	48		N/A	Trace of Autumn Olive. Intermittent drainage parallel to and N. of the road through the stand.																																																									
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12	310 - Herbaceous Openland	Nonstocked	2.0			No																																																										
13	4139 - Aspen, Mixed Deciduous	Poletimber Well	73.5	53	Unspecified	N/A																																																										
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14	4130 - Aspen	Sapling Well	5.2	13	Immature	N/A	Cut in 2008 part of footbridge sale.																																																									
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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>16</b>	4130 - Aspen	Sapling Well	87.0	25	Immature	N/A	Many rock knolls with deciduous and conifer mixed residual were left after this stand was cut.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	3	
Quaking Aspen	75	Sapling	3	25
Balsam Fir	8	Sapling/Pole	4	
White Spruce	2	Sapling	2	
Balsam Poplar	8	Sapling	3	
Paper Birch	2	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	< 5 feet	Sapling
White Pine	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

<b>17</b>	4121 - Oak, Aspen	Sawtimber Well	17.6	77	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Red Oak	60	Log	14	77
Quaking Aspen	15	Log	12	
Bigtooth Aspen	15	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Red Oak	Medium	10 - 20 feet	Sapling
Quaking Aspen	Medium	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Witch Hazel	Low	5 - 10 feet	Tall Shrub

<b>18</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	1.9	91		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Log	12	
White Spruce	25	Log	14	
Northern White Cedar	20	Pole	8	
Tamarack	35	Pole/Log	9	91
White Pine	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Pole
Paper Birch	Low	>20 feet	Pole
Quaking Aspen	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

<b>19</b>	6112 - Lowland Aspen	Poletimber Medium	4.6	77		N/A	transition zone to trout stream
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	9	
Quaking Aspen	55	Pole	9	77
Balsam Fir	10	Pole	8	
White Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

<b>20</b>	3102 - Grass	Nonstocked	9.5			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**21** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 8.9 97 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Pole
Balsam Fir	10	Pole	6		White Spruce	Low	5 - 10 feet	Sapling
White Spruce	5	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	20	Pole	8					
Northern White Cedar	45	Log/Pole	10	97				
Paper Birch	7	Log/Pole	10					
Red Maple	8	Log/Pole	10					

**22** 4130 - Aspen Sawtimber Well 8.5 77 N/A Lower part of cliff, 20% talus.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	80	Log/Pole	10	77	Red Oak	Low	5 - 10 feet	Sapling
Red Oak	5	Log/Pole	12		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub

**25** 4123 - Red Oak Sawtimber Medium 3.0 77 51-80 N/A Log sized oak only about 40 ft tall on rock knob. Saplings are on North face. The clct in adjacent stand cut aspen out of this std.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	100	Log	13	77	Red Maple	Low	5 - 10 feet	Sapling
					Red Oak	Medium	10 - 20 feet	Sapling
					White Spruce	Low	5 - 10 feet	Sapling
					White Pine	Low	< 5 feet	Sapling
					Quaking Aspen	Low	10 - 20 feet	Sapling

**26** 6115 - Lowland Ash Poletimber Poor 13.2 84 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	100	Pole/Sapling	5	84	Tag Alder	High	5 - 10 feet	Tall Shrub
					Balsam Fir	Low	Variable	Sapling

**27** 4123 - Red Oak Sawtimber Medium 25.8 77 51-80 N/A Upper third of cliff and crest. Stunted oak 20 to 40 ft tall. Thirty percent bare rock or talus.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	9		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	95	Log/Pole	11	77	White Ash	Low	5 - 10 feet	Sapling
					Red Oak	Low	5 - 10 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub
					Quaking Aspen	Medium	10 - 20 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
28	4123 - Red Oak	Sawtimber Well	3.8	77	81-110	N/A	Rock top left from surrounding clct.																																										
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30	4130 - Aspen	Sapling Well	25.3	16	Immature	N/A	larger 12 inch aspen and tag alder by vernal pond																																										
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34	621 - Floating Aquatic	Nonstocked	1.4			No																																											
35	4130 - Aspen	Sapling Well	45.1	9	1-50	N/A	Harvested with "Sunrise Scree" sale #12-007-12-01 in Sept 2013.																																										
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37	4130 - Aspen	Poletimber Well	17.1	74	Unspecified	N/A	Very steep West facing hillside.																																										
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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>39</b>	4123 - Red Oak	Sawtimber Well	45.3	101	81-110	N/A	Aspen was partially removed from north part of stand about 15 to 20 years ago.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	8	
Red Oak	60	Log	13	101
White Pine	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	High	10 - 20 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	High	10 - 20 feet	Sapling

<b>41</b>	6120 - Lowland Cedar	Poletimber Well	40.0	101	Unspecified	N/A	Creek valley with big rocks and thin soils.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	8	
Balsam Poplar	3	Log	14	
Balsam Fir	25	Pole	7	
Northern White Cedar	61	Log/Pole	11	101
White Pine	3	Log	17	
Black Ash	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	>20 feet	Sapling

<b>42</b>	42290 - Natural Mixed Pine	Sawtimber Well	15.0	91	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Red Oak	15	Log	12	91
White Pine	35	Log	14	
Red Pine	40	Log/Pole	12	91

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling

<b>43</b>	4130 - Aspen	Sawtimber Well	10.4	91	51-80	N/A	Big old aspen in final stages of decay with maple and oak poles coming into canopy. Rough terrain with drainages and steep mounds.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	18	Pole	9	
Red Oak	3	Pole	8	
Quaking Aspen	70	Log	13	91
Balsam Fir	7	Pole	7	
White Pine	2	Log/XLog	17	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Black Ash	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**46** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 43.7 81 81-110 N/A rocky with a drainage through the middle.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole	8	81	Balsam Fir	Medium	10 - 20 feet	Sapling
Paper Birch	3	Pole	9		White Spruce	Medium	10 - 20 feet	Sapling
Quaking Aspen	25	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	8		Black Ash	Low	Variable	Sapling
White Pine	10	Log	16					
Black Ash	5	Pole	6					
Balsam Fir	7	Pole	6					
Sugar Maple	10	Pole/Log	8					

**48** 310 - Herbaceous Openland Nonstocked 2.1 0 No

**49** 4136 - Aspen, Mixed Conifer Poletimber Well 33.8 74 81-110 N/A Very steep terrain, multiple ledges throughout the stand. Inoperable. some cedar and spruce

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	6		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Paper Birch	25	Pole	7		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	45	Pole/Log	8	74				
Red Pine	9	Log/Pole	11					
White Pine	6	Log	12					

**50** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 13.4 58 51-80 N/A Wet ground, tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	6		Black Ash	Low	Variable	Sapling
Quaking Aspen	20	Pole/Log	9	58				
White Spruce	10	Pole	6					
Red Maple	20	Pole/Log	8					
Balsam Poplar	10	Pole	9					
Black Ash	15	Pole/Sapling	6					

**53** 6229 - Mixed lowland shrub Nonstocked 14.7 Unspecified No OPIC - FMD: Pine Creek bottom land - tag alder with widely scattered tam, b ash, cedar, elm. Areas of VERY STEEP exposed rock gorge (Rock Dam) soil: Waucedah - Cathro complex



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>54</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.8	56	51-80	N/A	Red pine along bluff by creek. Good understory of hardwoods, they will take the place of the aspen
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole/Log	9	
Bigtooth Aspen	30	Log/Pole	10	56
Paper Birch	15	Pole/Log	8	
Red Pine	5	Log/Pole	10	
Red Maple	15	Pole	8	
Sugar Maple	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling
Red Maple	Medium	>20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub

<b>55</b>	6220 - Alder/willow	Nonstocked	1.6			No	
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<b>56</b>	6118 - Lowland Deciduous with Cedar	Poletimber Medium	29.2	92		N/A	Lost Lake Creek makes the west boundary of the stand. Spruce/Fir is declining.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	6	
Black Spruce	10	Pole/Sapling	6	93
Northern White Cedar	20	Log	12	96
Black Ash	15	Pole	6	
Red Maple	5	Log/Pole	11	
Quaking Aspen	15	Log	14	
Balsam Poplar	25	Pole/Log	8	92

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

<b>57</b>	42290 - Natural Mixed Pine	Sawtimber Well	28.9	78	81-110	N/A	Steep. Pine on top of rock. Aspen/maple/fir on hillside. Old ORV trail on south . Entire stand cannot be harvested because of rock (center rock portion of stand included in the Rock Glade ERA).
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Log/Pole/XLog	12	
White Pine	40	Log	12	78
Red Pine	35	Log	12	
Red Maple	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub

<b>58</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.7	74	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	8	
Paper Birch	35	Pole/Log	10	74
Quaking Aspen	10	Pole	12	
Balsam Poplar	10	Pole	8	
Balsam Fir	10	Pole	6	
White Spruce	5	Pole/Log	8	
Black Ash	5	Pole	8	
White Pine	5	XLog/Log	20	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Pole
White Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
59	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	12.9	100	81-110	N/A	Rock outcrop along powerline. Trace of cedar.																																																													
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61	110 - Low Intensity Urban	Nonstocked	40.9			No	powerline																																																													
62	4130 - Aspen	Sapling Well	36.1	5	Immature	N/A																																																														
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63	4139 - Aspen, Mixed Deciduous	Poletimber Well	43.2	72		N/A	Steep, hillside or bluff. Inoperable. E type on bottom of hill. Aspen and birch dying. Many different age classes.																																																													
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64	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	162.1	68	81-110	N/A	Rugged. Poor access. Inoperable. Creeks, drainages, swamp hardwoods, rock outcroppings all scattered throughout. Pine growing on the rocks. Aspen and white birch are falling apart, being replaced by red maple, aspen and red pine saplings. Supercanopy white pine throughout. More aspen to south. spruce/fir dying out																																																													
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<b>66</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	31.6	66	81-110	N/A	Small conifer inclusion to east. Wet. A lot of the tamarack, spruce has died																																																					
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<b>67</b>	4319 - Mixed Upland Forest	Sawtimber Well	139.7	85	81-110	N/A	Heavier to Red and White Pine in the Northwest and west part of the stands. Inaccessible to harvest stand due to steep bluffs.																																																					
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77	4134 - Aspen, Spruce/Fir	Sapling Well	36.6	22	Immature	N/A	some larger spruce, fir, maple left when it was cut.																																											
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78	6112 - Lowland Aspen	Sawtimber Medium	15.1	74		N/A																																												
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79	4134 - Aspen, Spruce/Fir	Sapling Well	37.9	13	Immature	N/A	A few scattered white pine left when it was cut.																																											
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80	3102 - Grass	Nonstocked	2.2		Immature	No																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
<b>83</b>	4134 - Aspen, Spruce/Fir	Sawtimber Medium	14.5	78		N/A																																																										
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<b>85</b>	4130 - Aspen	Sapling Well	24.4	13	Immature	N/A	Scattered overstory conifer and cherry. Cut in 2008 part of Footbridge sale.																																																									
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<b>87</b>	4130 - Aspen	Poletimber Well	26.9	43	81-110	N/A	On a steep slope and in the buffer to the riverScattered elm, jack pine, oak, and balsam fir																																																									
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<b>90</b>	4319 - Mixed Upland Forest	Sawtimber Well	6.0	82	81-110	N/A	Steep, hillside or bluff. Inoperable.																																																									
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