



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12139

Entry Year 2021

Acreage: 1,383

County Iron

Management Area: Net River

Revision Date: 2019-08-03

Stand Examiner: Scott Sebero

Legal Description:

T43N, R33W, Sections 6, 7 and 18

T43N, R34W, Section 1, 12 and 13

T44N, R33W, Sections 32 and 33

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in the aspen type, maintain health of conifer types and increase acreage where possible and to develop the quality, while maintaining diversity in hardwood types. The State of Michigan will work to develop buffers on streams, to increase public access and to maintain and improve the road system.

Soil and topography:

Land is nearly level to rolling areas on outwash plains. Compartment is mostly upland with some lowland swamps and drainages. Some areas of rock outcrops are present in this compartment.

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

Ownership within this compartment consists of mostly State lands with a few private parcels. Private land owners control almost all vehicle access into this compartment. Lands within and around this compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

Natural feature within this compartment would include Chicagon Creek and Olson Creek.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains Paint River, Chicagon Slough, Olson Creek, Cedar Creek. Paint River is a warm transitional large river and Chicagon Slough is a warm transitional stream. While technically, Chicagon Slough is a type 1 trout stream, it is likely not suitable habitat currently. Therefore, both Paint River and Chicagon Slough should have 100' buffers, plus 5' per 1% increase in slope. However, Cedar Creek and Olson Creeks are both cold streams and Type 1 trout streams less than 50' in width. 300' buffers are recommended for these waterbodies susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

This compartment falls within the Net River MA, with woodcock, American marten, black bear, moose, deer and wood duck as featured species. It is currently part of the West Iron DWC and contributed a significant portion of the historic Hemlock Rapids Deeryard. This area is also inhabited by wolves, moose and has important riparian habitat due to several river systems.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located less than three miles to the southeast, and there appears to be good gravel potential within the compartment. The abandoned Chicagon Mine is located about two miles southwest of the compartment, and there has been extensive iron ore exploration along the US- corridor. There was some additional minor iron ore exploration just north of the compartment, along the Paint River, but the geological records available from these tests do not show any evidence of iron formations near the surface. There does not appear to be iron ore potential within the compartment, but there may be potential for other metallic minerals. Mineral rights in the compartment were previously leased for metallic mineral exploration more than 30 years ago. No known potential exists 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 for the public is from Paulson Road. This access is very limited. Access exists through private property from Bates-Amasa Road and from the trail road extending beyond Paulson Road. A management easement through the SW1/4 of section 6 is currently be pursued.

Survey Needs:

None.

Recreational Facilities and Opportunities:

This area is used for hunting, mainly by adjoining property owners, who control the access.

Fire Protection:

Additional Compartment Information:

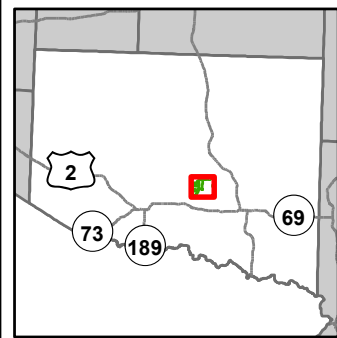
The following reports from the Inventory are attached:

- 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:

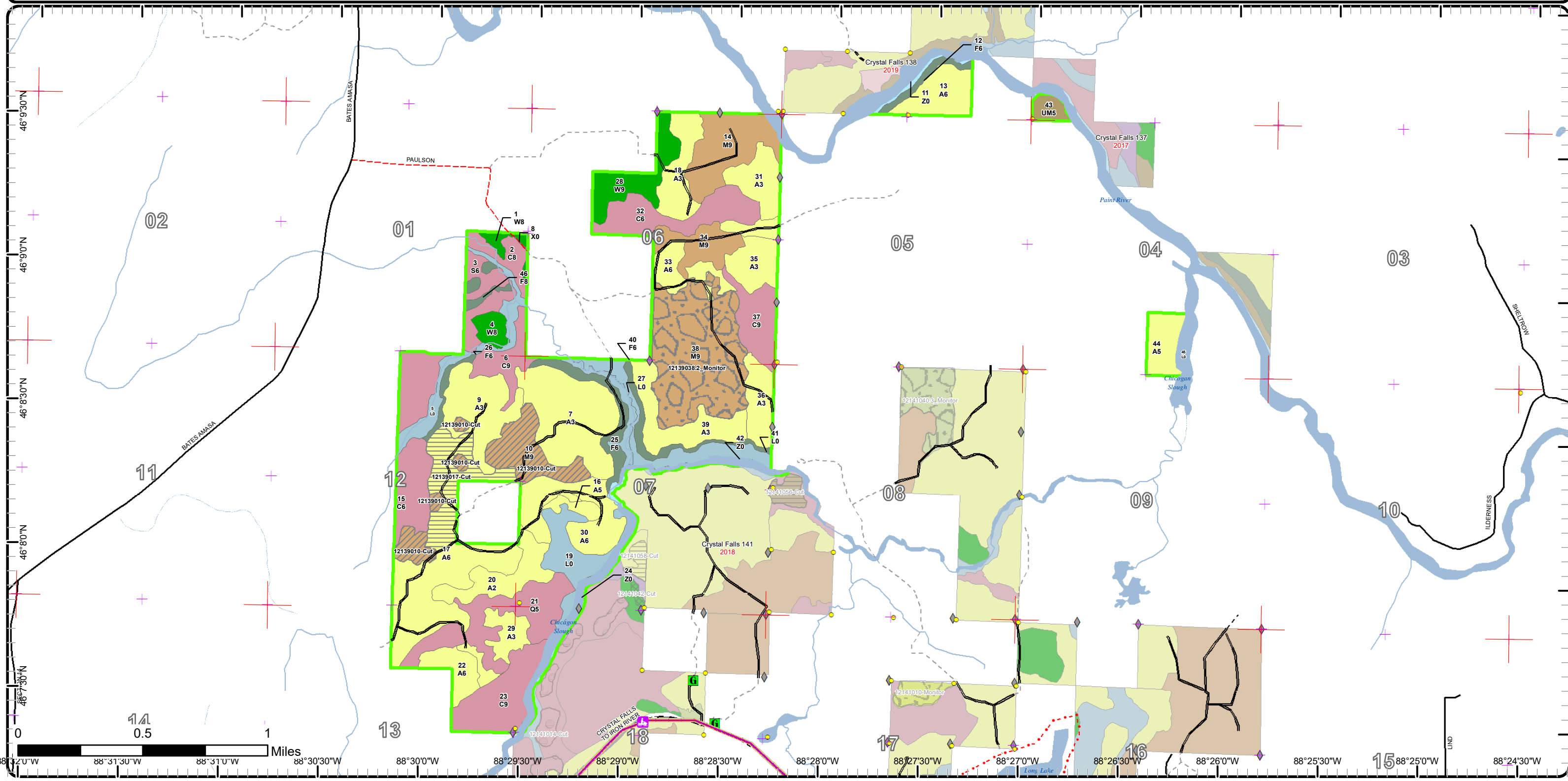
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

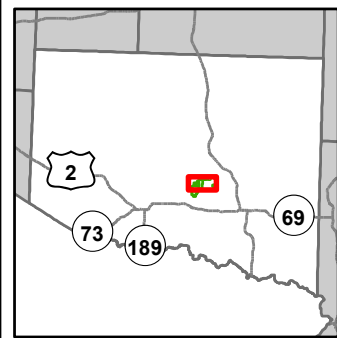


Compartment: 139
 T44N, R33W, Sec. 32, 33
 T43N, R33W, Sec. 4, 6-8, 18
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 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Net River
 YOE: 2021
 Acres: 1,383 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 1/27/2020
 Map Phase: Post-Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
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- - - Private - Dirt / Gravel Road
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub

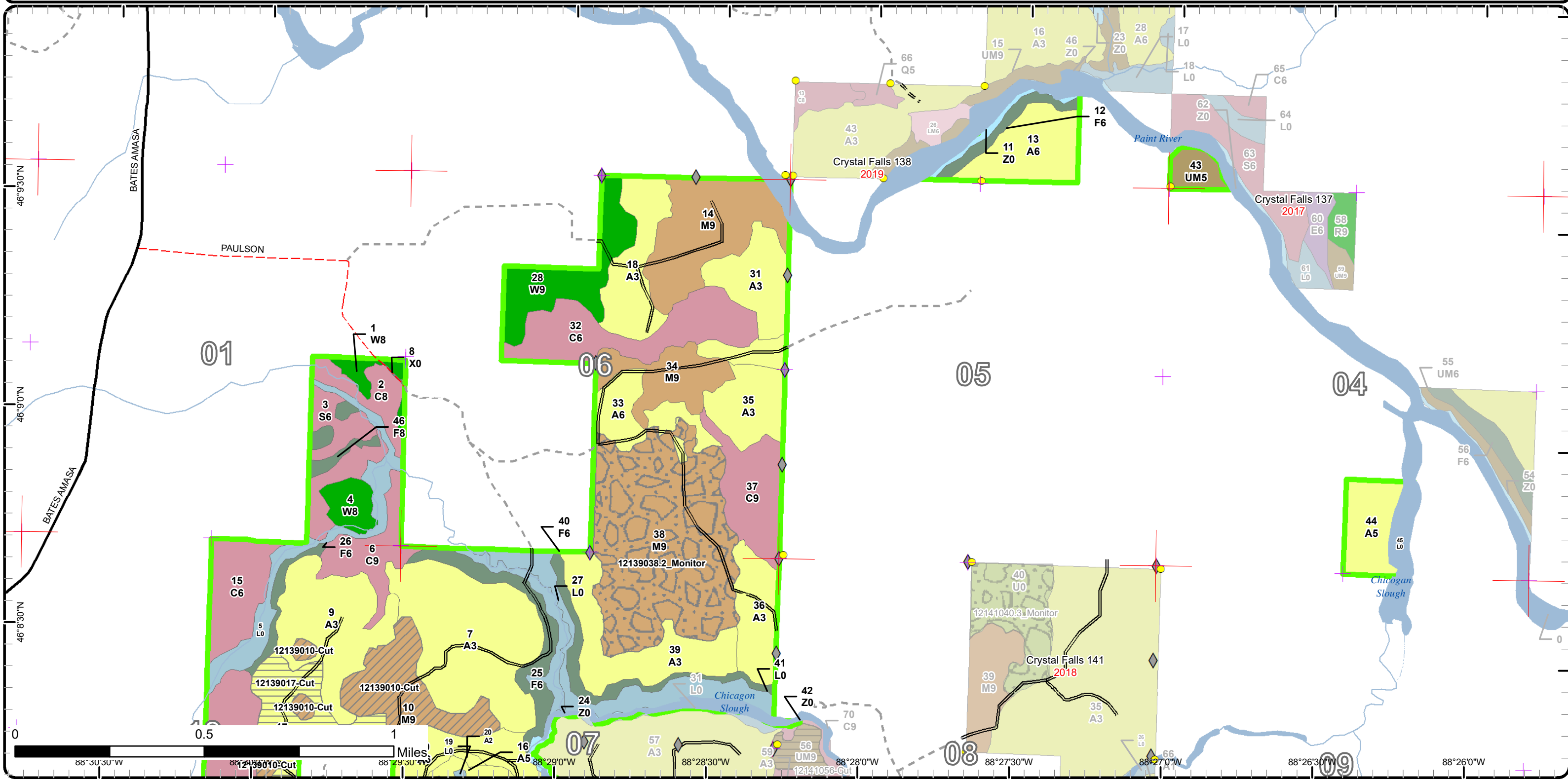


Cover Type & Treatments Map



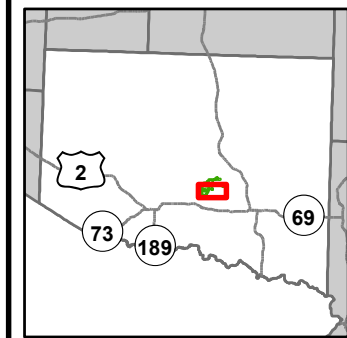
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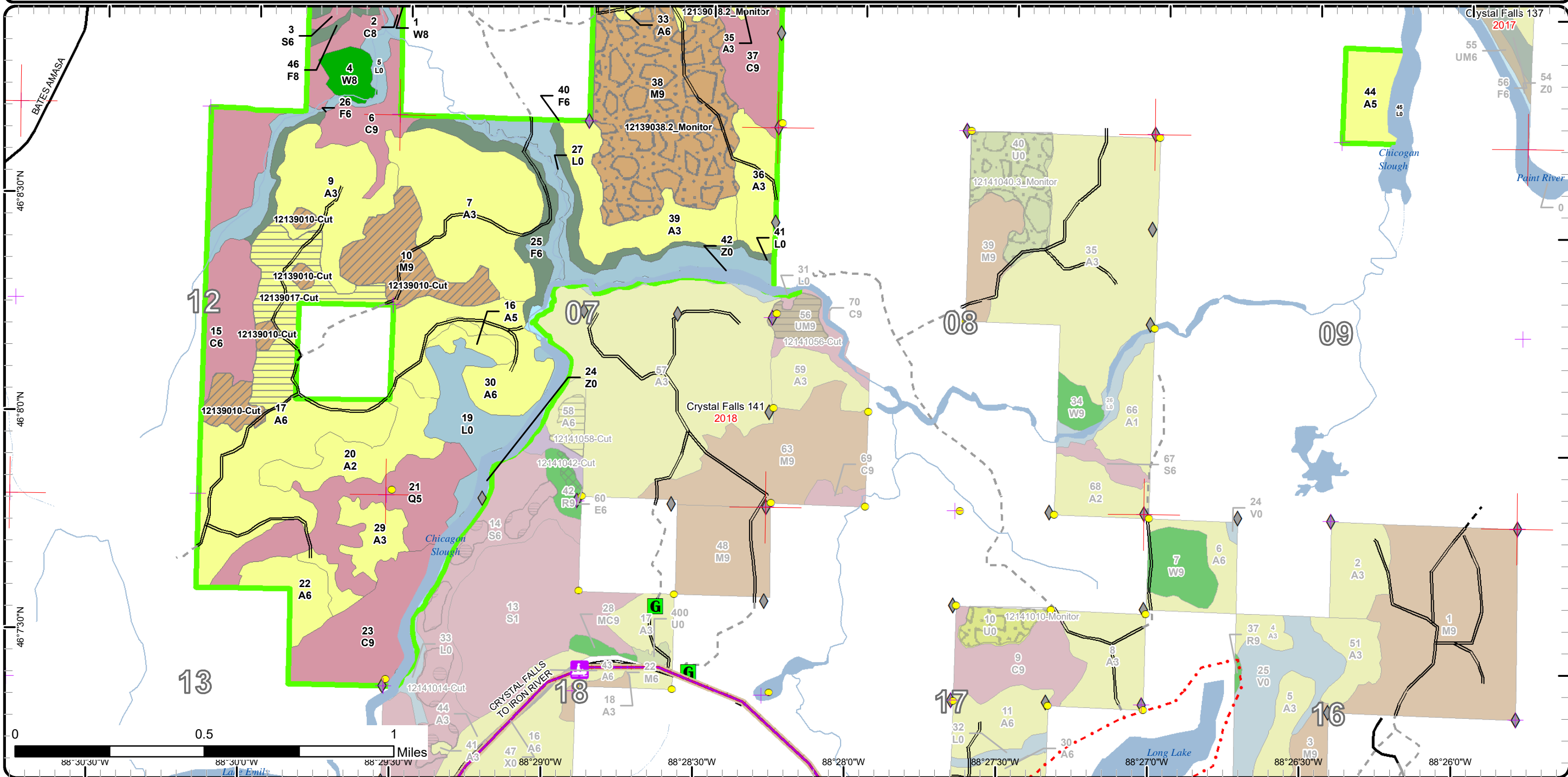


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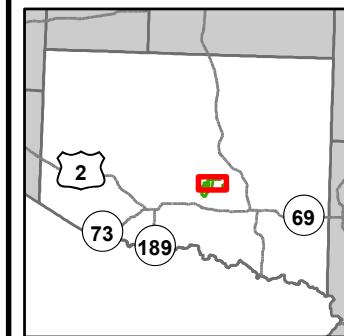


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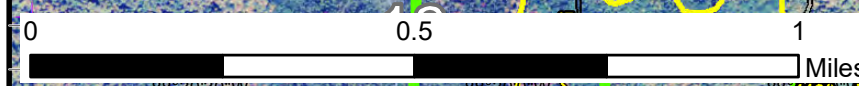
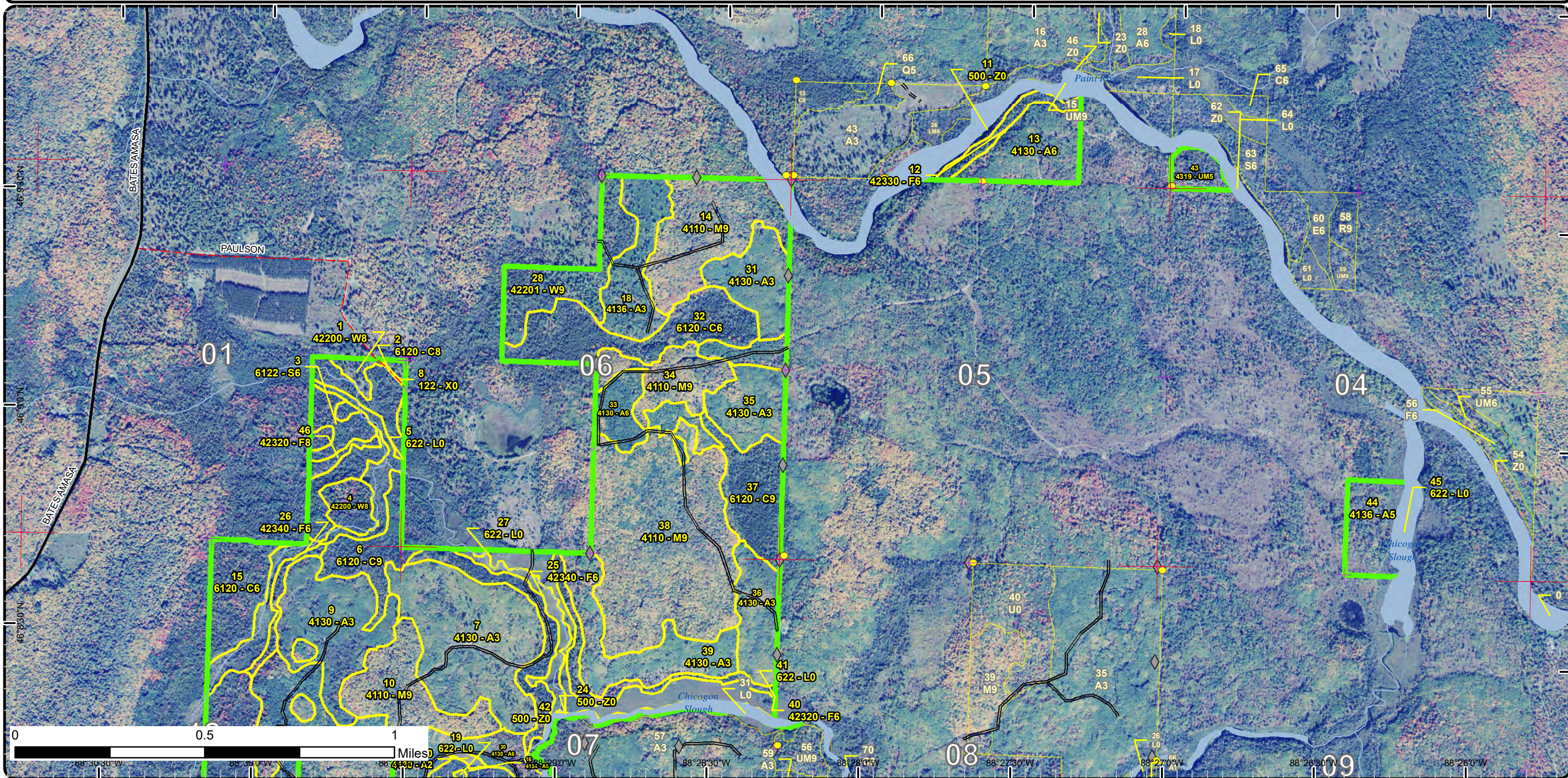


Stand Boundary Map

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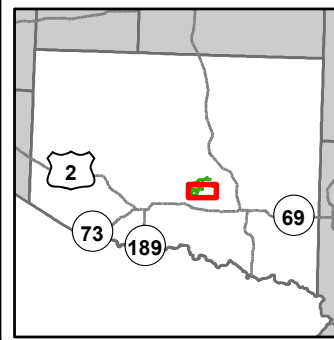


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-
- Natural Color**
- RGB**
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3



46°53'0"N 46°50'0"N 46°47'0"N 88°30'0"W 88°28'30"W 88°27'0"W 88°25'30"W 88°24'0"W

Stand Boundary Map



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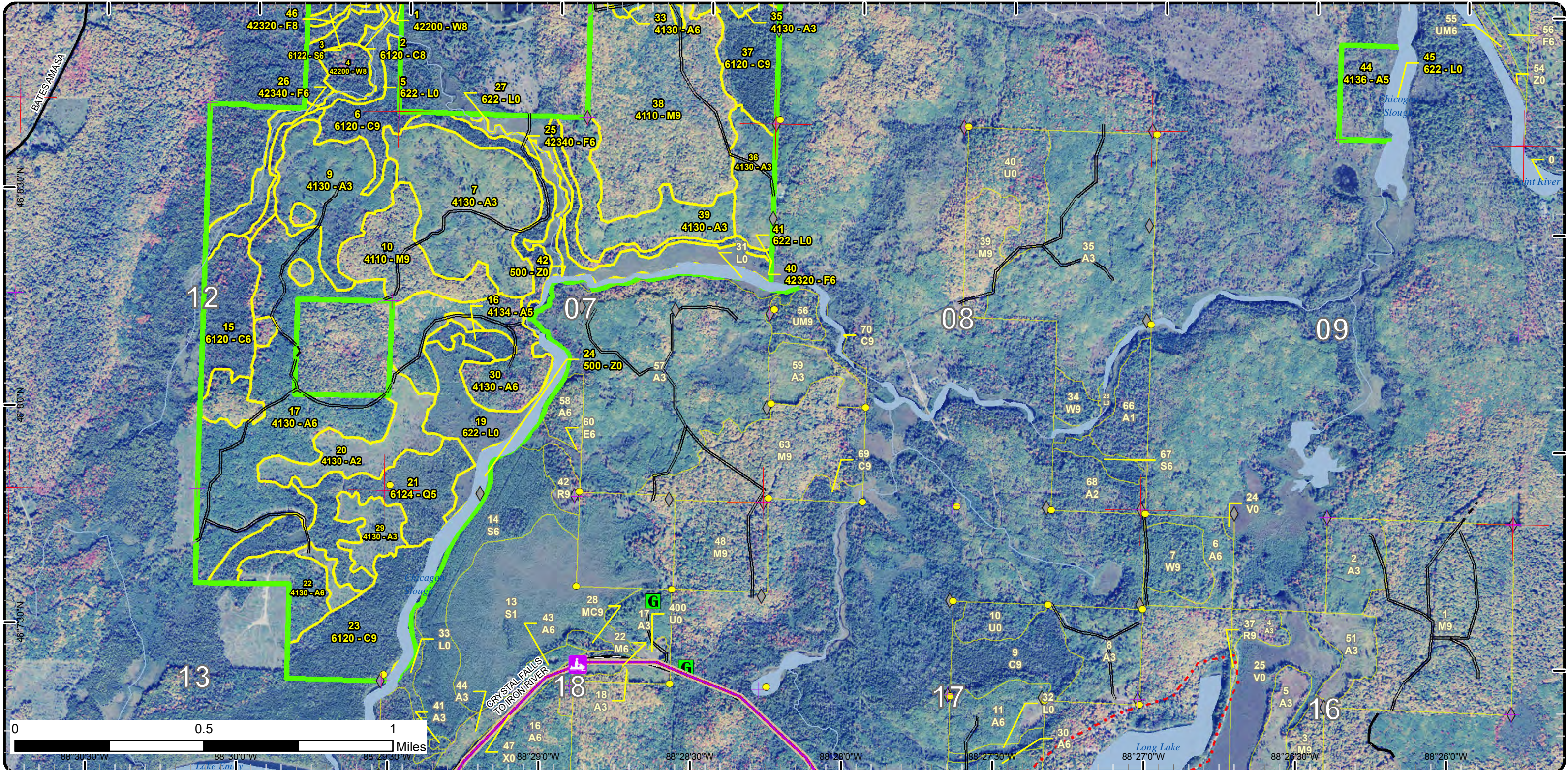


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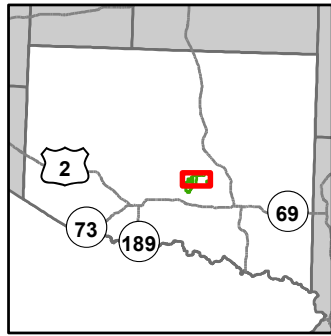
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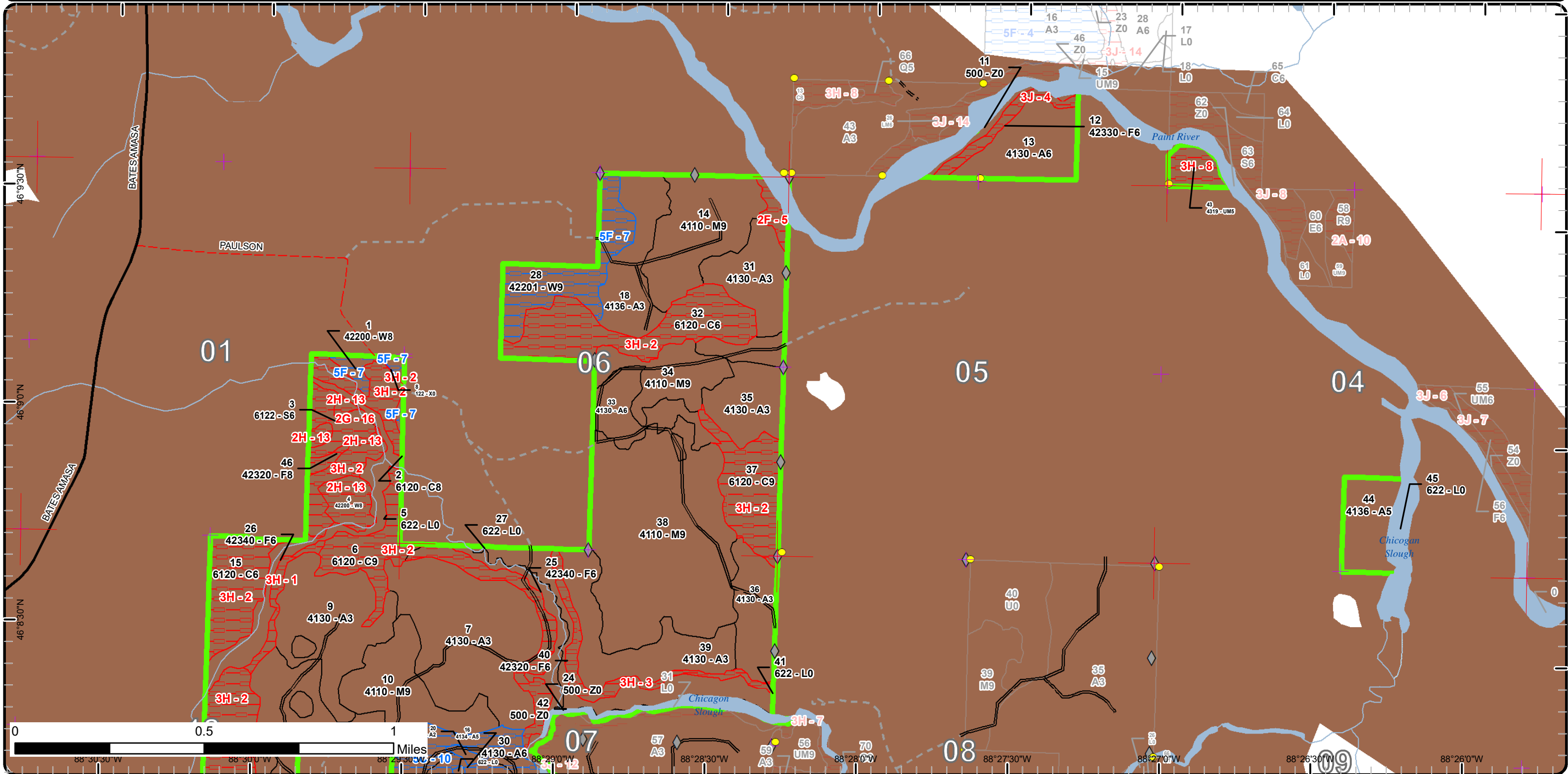


Special Conservation Areas & Site Conditions Map

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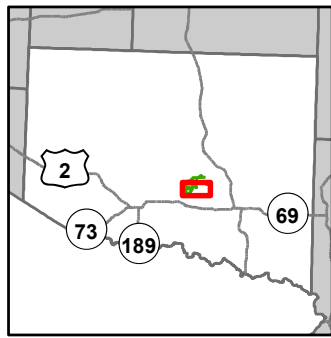


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

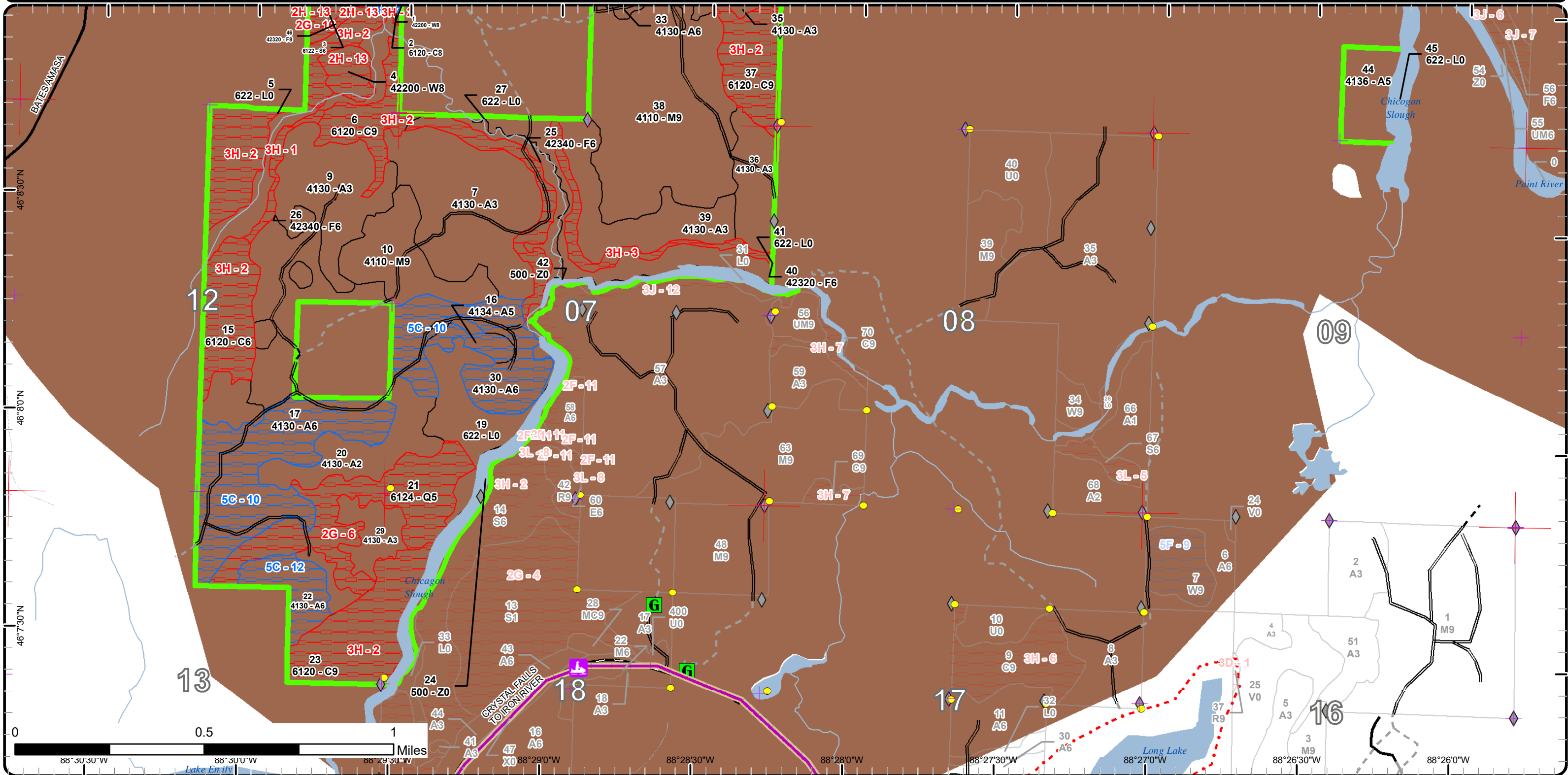


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- Stand Boundaries
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Report 1 – Total Acres by Cover Type and Age Class



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	55	99	163	30	243	0	0	0	0	0	0	0	0	0	0	0	0	589
Cedar	0	0	0	0	0	0	0	0	0	0	74	151	0	0	0	0	0	0	225
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	0	0	59
Lowland Shrub	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	195	53	0	0	0	0	0	0	248
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	0	0	8	19	13	7	0	0	0	0	0	0	0	0	5	51
Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
White Pine	0	0	0	0	0	0	0	0	0	0	33	16	0	0	0	0	0	0	48
Total	143	55	99	163	39	251	19	13	18	0	361	220	0	0	0	0	0	5	1382



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Compartment 139
Total Compartment Acres: 1,383

Acres of Harvest

Commercial Harvest - 95
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	42	0	0	0	0	0	0	0	0	42
Northern Hardwood	0	0	0	0	0	53	0	0	0	53
Total	42	0	0	0	0	53	0	0	0	95

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	95	0	0	0	0	0	119	0	0	214
Next Step	0	0	0	0	0	0	95	0	0	95
Total	95	0	0	0	0	0	214	0	0	309



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:

10	12139010-Cut	53.2	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to 80 BA using compleat Marker as guide. <u>Specs:</u> Leave all spruce in large east block of stand. Leave spruce and balsam less than two sticks in whole stand. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of hardwood, spruce and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020											
17	12139017-Cut	41.9	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<u>Prescription</u> Cut all aspen and mixed hardwood 2 inch DBH or larger. Cut all spruce and balsam with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen, spruce, balsam and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020											

Approved Treatments:

38	12139038.2_Monitor	118.7	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Mix of hardwood, softwood and aspen. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/9 /2018											

Total Treatment 213.8
Acres Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Scott Sebero : Examiner

Compartment: 139
Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
					5C	5F	2F	2G	2H	3H	3J	
589	441	148	0	Aspen	148							
225	0	0	225	Cedar						225		
59	0	0	59	Lowland Conifers				59				
99	99	0	0	Lowland Shrub								
11	0	0	11	Lowland Spruce/Fir				11				
248	243	0	5	Northern Hardwood			5					
9	0	0	9	Upland Mixed Forest						9		
51	0	0	51	Upland Spruce/Fir					6	37	8	
0	0	0	0	Urban								
42	42	0	0	Water								
49	0	39	10	White Pine		39			10			
1,383	827	187	369	Total Forested Acres	148	39	5	69	16	271	8	
	60%	14%	27%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	244	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 139
 Year of Entry: 2021



3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5F: Evaluated for Forest Health Considerations	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 139
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10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	129	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	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
Comments				

**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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	42200 - Natural White Pine	Sawtimber Medium	6.4	100	81-110	N/A	Aspen and maple regen around edges and in larger gaps of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		95	XLog/Log/Pole	18	100	Quaking Aspen	Low	10 - 20 feet	Sapling
						Red Maple	Low	5 - 10 feet	Sapling
						Black Spruce	Medium	5 - 10 feet	Sapling
2	6120 - Lowland Cedar	Sawtimber Medium	13.9	100	51-80	N/A	Cedar in clumps with tag alder in gaps.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole/Sap/Log	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar		80	Log/Pole	12	100	Balsam Fir	Low	Variable	Sapling
Tamarack		10	Pole/Sap/Log	8					
3	6122 - Black Spruce	Poletimber Well	10.7	71	51-80	N/A	sphagnum and Labrador tea.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		100	Pole/Sap/Log	6	71	Balsam Fir	Low	Variable	Sapling
4	42200 - Natural White Pine	Sawtimber Medium	10.0	100	111-140	N/A	Scattered balsam and spruce, mostly dead. Pockets of red maple regen, heavily browsed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		90	XLog/Log/Pole	20	100	Black Spruce	Low	Variable	Sapling
						Balsam Fir	Medium	Variable	Sapling
5	622 - Lowland Shrub	Nonstocked	24.6		Unspecified	No	OPIC - FMD: OI Stand Year Origin was		
6	6120 - Lowland Cedar	Sawtimber Well	32.7	100	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Log/Pole	10	100	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		40	Pole/Sap/Log	8					
7	4130 - Aspen	Sapling Well	76.4	17	Immature	N/A	Arnolds Trail t-sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling/Pole	4	17	White Spruce	Medium	Variable	Sapling
8	122 - Road/Parking Lot	Nonstocked	0.2	0	Unspecified	No	Paulson Road.		
9	4130 - Aspen	Sapling Well	47.1	23	Immature	N/A	Drumming Grouse 1 t-sale (2-92-01)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	3	23	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce		10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
10	4110 - Sugar Maple Association	Sawtimber Well	53.2	100	111-140	N/A																																
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Sub-Canopy Species	Density	Avg. Height	Size																																			
White Spruce	Low	Variable	Sapling																																			
11	500 - Water	Nonstocked	12.1		Unspecified	No	Paint River.																															
12	42330 - Upland Fir	Poletimber Well	7.9	41	51-80	N/A	Buffer along the Paint river.																															
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14	4110 - Sugar Maple Association	Sawtimber Well	48.9	98	81-110	N/A																																
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15	6120 - Lowland Cedar	Poletimber Well	57.4	100	81-110	N/A																																
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Black Spruce	Low	Variable	Sapling																																			
16	4134 - Aspen, Spruce/Fir	Poletimber Medium	7.2	49	51-80	N/A	Permit # 14-67-A																															
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17	4130 - Aspen	Poletimber Well	117.1	47	81-110	N/A																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
18	4136 - Aspen, Mixed Conifer	Sapling Well	29.7	29	1-50	N/A	Porcupine Lake Sale (12-08-86)			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	70	Sapling/Pole	4	29	White Pine	Low	Variable	Sapling
		Balsam Poplar	10	Sapling	4	29	Hazelnut (American)	Low	< 5 feet	Tall Shrub
		Balsam Fir	10	Sapling	4	29				
		White Pine	10	XLog/Log	18	98				
19	622 - Lowland Shrub	Nonstocked	31.9		Unspecified	No				
20	4130 - Aspen	Sapling Medium	33.8	7	Immature	N/A	Foot Bridge t-sale.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	100	Sapling	2	7	White Spruce	Low	Variable	Sapling
21	6124 - Lowland Spruce-Fir	Poletimber Medium	58.7	95	51-80	N/A	OPIC - FMD: Small pockets of black ash within stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black Ash	15	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
		Balsam Fir	20	Pole/Sapling	6					
		Black Spruce	40	Pole/Sap/Log	8	95				
		Northern White Cedar	20	Pole/Log	8	95				
22	4130 - Aspen	Poletimber Well	18.9	49	81-110	N/A	Permit # 14-67-A 1971			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	85	Pole/Log/Sap	8	49	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
23	6120 - Lowland Cedar	Sawtimber Well	46.9	100	111-140	N/A				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black Spruce	20	Pole/Log/Sap	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
		Northern White Cedar	70	Log/Pole	10	100				
24	500 - Water	Nonstocked	23.6		Unspecified	No	Chicagon Creek.			
25	42340 - Upland Spruce/Fir	Poletimber Well	18.8	50	51-80	N/A	OPIC - FMD: Buffer for Olson Creek and Chicagon Creek.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Balsam Fir	50	Pole/Sap/Log	8	50	Cherry (spp.)	Low	Variable	Sapling
		White Spruce	45	Pole/Sap/Log	8	50				
26	42340 - Upland Spruce/Fir	Poletimber Well	5.4	50	51-80	N/A	Buffer along Cedar Creek.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Balsam Fir	50	Pole/Sap/Log	8	50	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
		White Spruce	40	Pole/Sap/Log	8	50				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 622 - Lowland Shrub Nonstocked 10.7 Unspecified No Borders Olson Creek.

28 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 32.5 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Sapling/Pole	4	29	Quaking Aspen	Medium	Variable	Sapling
Balsam Poplar	10	Sapling/Pole	4	29	Balsam Poplar	Low	Variable	Sapling
Balsam Fir	10	Sapling/Pole	4	29	Balsam Fir	Low	Variable	Sapling
White Pine	60	XLog/Log	18	98	White Pine	Low	Variable	Sapling
					Hazelnut (American)	Low	< 5 feet	Tall Shrub

29 4130 - Aspen Sapling Well 20.5 7 Immature N/A Foot Bridge t-sale (65-11-01)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	7	Balsam Fir	Low	Variable	Sapling

30 4130 - Aspen Poletimber Well 46.9 49 81-110 N/A Permit # 14-67-A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sap/Log	8		White Spruce	Low	Variable	Sapling
Quaking Aspen	80	Pole/Log/Sap	8	49				

31 4130 - Aspen Sapling Well 25.1 25 Immature N/A Chit Chat t-sale (5-93-01)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Sapling	2	25	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Balsam Poplar	10	Sapling	2	25				

32 6120 - Lowland Cedar Poletimber Well 45.0 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole/Log/Sap	8	98	Black Spruce	Low	Variable	Sapling
Northern White Cedar	65	Pole/Log	10	98	Alder	Low	5 - 10 feet	Tall Shrub

33 4130 - Aspen Poletimber Well 29.7 46 81-110 N/A Permit # 36-73

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Sapling	5	46	Sugar Maple	Low	Variable	Sapling
Quaking Aspen	90	Pole/Sapling	8	46	Balsam Fir	Low	Variable	Sapling
					Hazelnut (American)	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
34	4110 - Sugar Maple Association	Sawtimber Well	24.6	98	81-110	N/A	Spray can t-sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Log/Pole/Sap	10	98	Sugar Maple	Low	Variable	Sapling
Basswood		20	Log/Pole	12	98	Black Spruce	Low	Variable	Sapling
						Ironwood	Low	Variable	Sapling
						Leatherwood	Low	< 5 feet	Tall Shrub
35	4130 - Aspen	Sapling Well	22.8	25	Unspecified	N/A	Sale # 30-92-02		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling	2	25	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Balsam Poplar		10	Sapling	2	25				
36	4130 - Aspen	Sapling Well	22.9	15	Immature	N/A	Bear Camp Sale		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	2	15	White Spruce	Medium	Variable	Sapling
White Spruce		10	Sapling/Pole	2					
37	6120 - Lowland Cedar	Sawtimber Well	29.2	98	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole/Log	10	98	Black Spruce	Low	Variable	Sapling
Northern White Cedar		90	Log/Pole	12	98	Alder	Low	5 - 10 feet	Tall Shrub
38	4110 - Sugar Maple Association	Sawtimber Well	121.3	98	81-110	N/A	Spray can t-sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Log/Pole/Sap	10	98	Sugar Maple	Low	Variable	Sapling
Basswood		15	Log/Pole	12	98	Ironwood	Low	Variable	Sapling
						Leatherwood	Low	< 5 feet	Tall Shrub
39	4130 - Aspen	Sapling Well	38.7	25	Immature	N/A	Stoychoff's Lair Sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	2	25	White Spruce	Medium	Variable	Sapling
White Spruce		10	Sapling/Pole	2					
40	42320 - Upland Spruce	Poletimber Well	12.8	61	81-110	N/A	Buffer for Chicagon Creek.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		70	Pole/Sap/Log	8	61	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Maple		20	Pole/Sap/Log	8					
Balsam Fir		10	Pole/Sapling	6					
41	622 - Lowland Shrub	Nonstocked	28.2		Unspecified	No	OPIC - FMD: OI Stand Year Origin was		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 500 - Water Nonstocked 6.8 Unspecified No Chicagon Creek

43 4319 - Mixed Upland Forest Poletimber Medium 9.0 31 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	6	31	White Pine	Low	Variable	Sapling
Quaking Aspen	25	Log/Pole	16	31	White Spruce	Low	Variable	Sapling
Balsam Fir	15	Pole/Sapling	6					
White Spruce	10	Pole/Sapling	6					
White Pine	20	Log/Pole/Sap	16					

44 4136 - Aspen, Mixed Conifer Poletimber Medium 23.0 40 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Cherry (spp.)	Medium	Variable	Sapling
White Pine	10	XLog/Log/Pole	18					
Quaking Aspen	80	Pole/Sapling	6	40				

45 622 - Lowland Shrub Nonstocked 4.1 Unspecified No

46 42320 - Upland Spruce Sawtimber Medium 6.5 71 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	90	Log/Pole/Sap	10	71	Balsam Fir	High	10 - 20 feet	Sapling

Stand in very poor condition. Lots of dead and blown over trees. Heavy balsam, spruce understory. Pockets of dead spruce and balsam saps.