



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12006

Entry Year 2021

Acreage: 1,416

County Dickinson

Management Area: Floodwood Plains

Revision Date: 2019-07-30

Stand Examiner: Jacob Siler

Legal Description:

T44N, R29W, Sections 7, 8, 9, 17 and 18

Identified Planning Goals:

This compartment has a vast amount of wetland, including a large cedar component and large lowland conifer component, some of which are part of deer obligate winter range. The rest of the compartment is an array of aspen, fir and upland mix stands. Aspen stands are being managed in varying ages. There is one lone hardwood stand that should be routinely thinned. Two log sized pine stands are present, one red pine and one white pine. There is a discontinued snowmobile trail running along the powerline and through the middle of the compartment. Two Mile Creek runs along the southern border of the compartment.

Soil and topography:

This compartment goes from rolling high terrain to swamp land to the creek.

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

This compartment is mostly surrounded by state land with a group of landowners on the northwest side (one quite large).

Unique Natural Features:

Two Mile Creek is a good trout stream and runs into the large cedar stand to the southwest.

Archeological, Historical, and Cultural Features:

None that are known at this time.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Twomile Creek which serve as a tributary to the Ford River. Twomile Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Twomile Creek in 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:

The compartment is heavily used by wintering deer and considered winter deer range. The cedar and lowland Q types are crucial to wintering deer cover as well as the adjacent upland food sources. These lowland types also provide great bear habitat.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel operation is located four miles to the northwest, and there may only be limited sand & gravel potential within the compartment. There has been no history of metallic mineral mining in this area. Mineral rights in and around the compartment were previously leased for metallic mineral exploration and development more than 30 years ago. Ford Motor Co. drilled some iron ore test holes to the west and south in the late 1920s, and there may be some iron ore potential in Section 18. Additional mineral exploration occurred in the late 1970s to the south of the compartment in sections 29 and 32. There may be potential for other metallic minerals in 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:

There is no real vehicle access into this compartment. There is a discontinued snowmobile trail which runs through the middle of the compartment on the powerline. The old snowmobile bridge across the Two Mile Creek is in poor condition.

Portions of the powerline are very steep and not good for vehicle traffic.

Survey Needs:

Corners may be needed.

Recreational Facilities and Opportunities:

There is a vast amount of hunting in this compartment.

Fire Protection:

Access would be difficult for fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

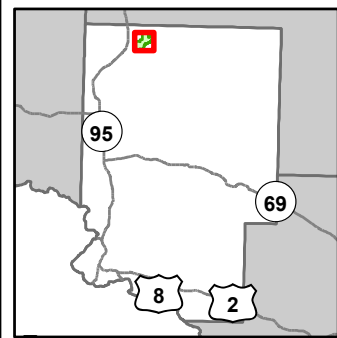
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

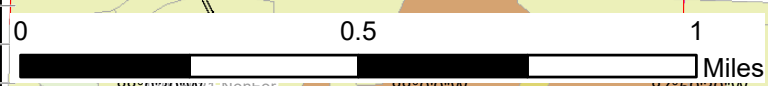
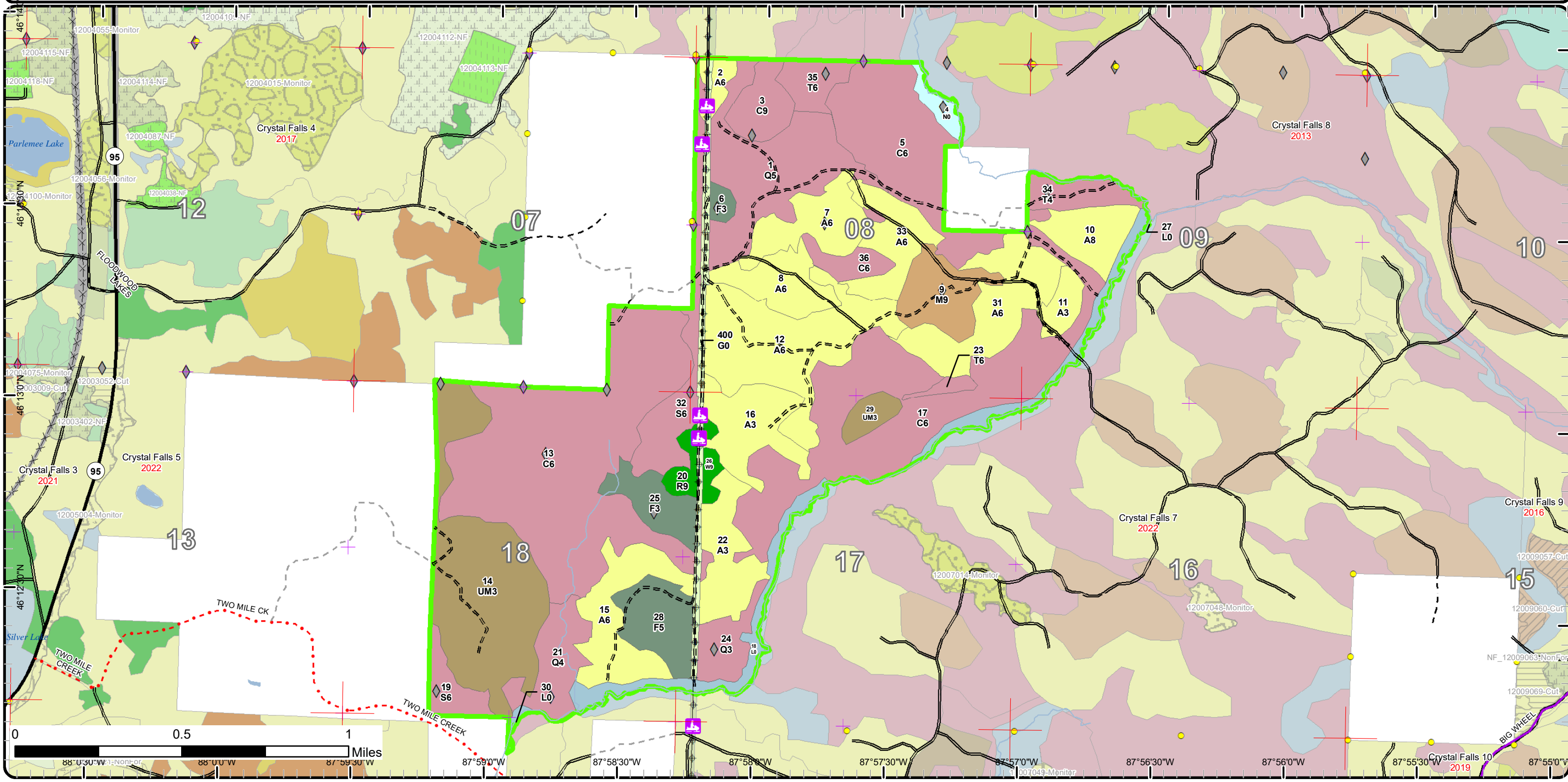
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 6
 T44N, R29W, Sec. 7-9, 16-19
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Floodwood Plains
 YOE: 2021
 Acres: 1,416 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 1/27/2020
 Map Phase: Post-Review



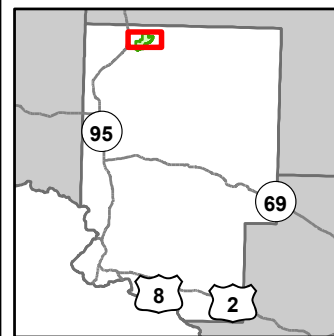
- Miris Corners
 - + Remonumented Section Corners
 - Survey Grade Corners
 - ◆ Field Grade Corners
 - Counties
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Federal / State - Dirt / Gravel Road
 - County - Gravel Road
 - Private - Dirt / Gravel Road
 - Snowmobile Trails
 - Perennial River
 - Powerline
 - Compartment Boundary
- 411 - Northern Hardwood
 - 413 - Aspen
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 430 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



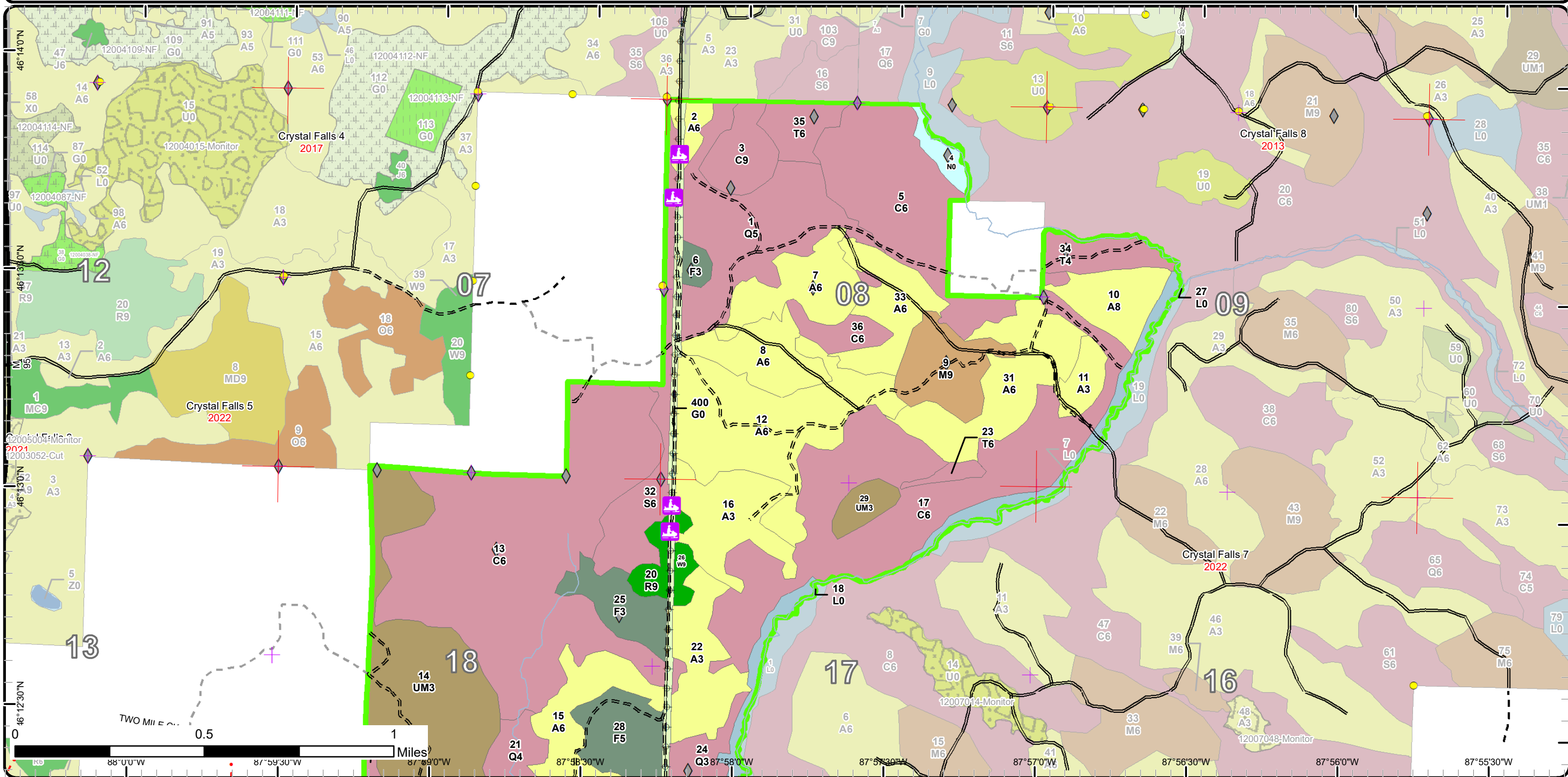
88° 0' 30" W, 88° 0' 0" W, 87° 59' 30" W, 87° 58' 30" W, 87° 57' 30" W, 87° 56' 30" W, 87° 55' 30" W, 87° 55' 0" W

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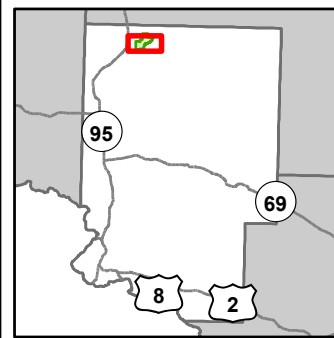


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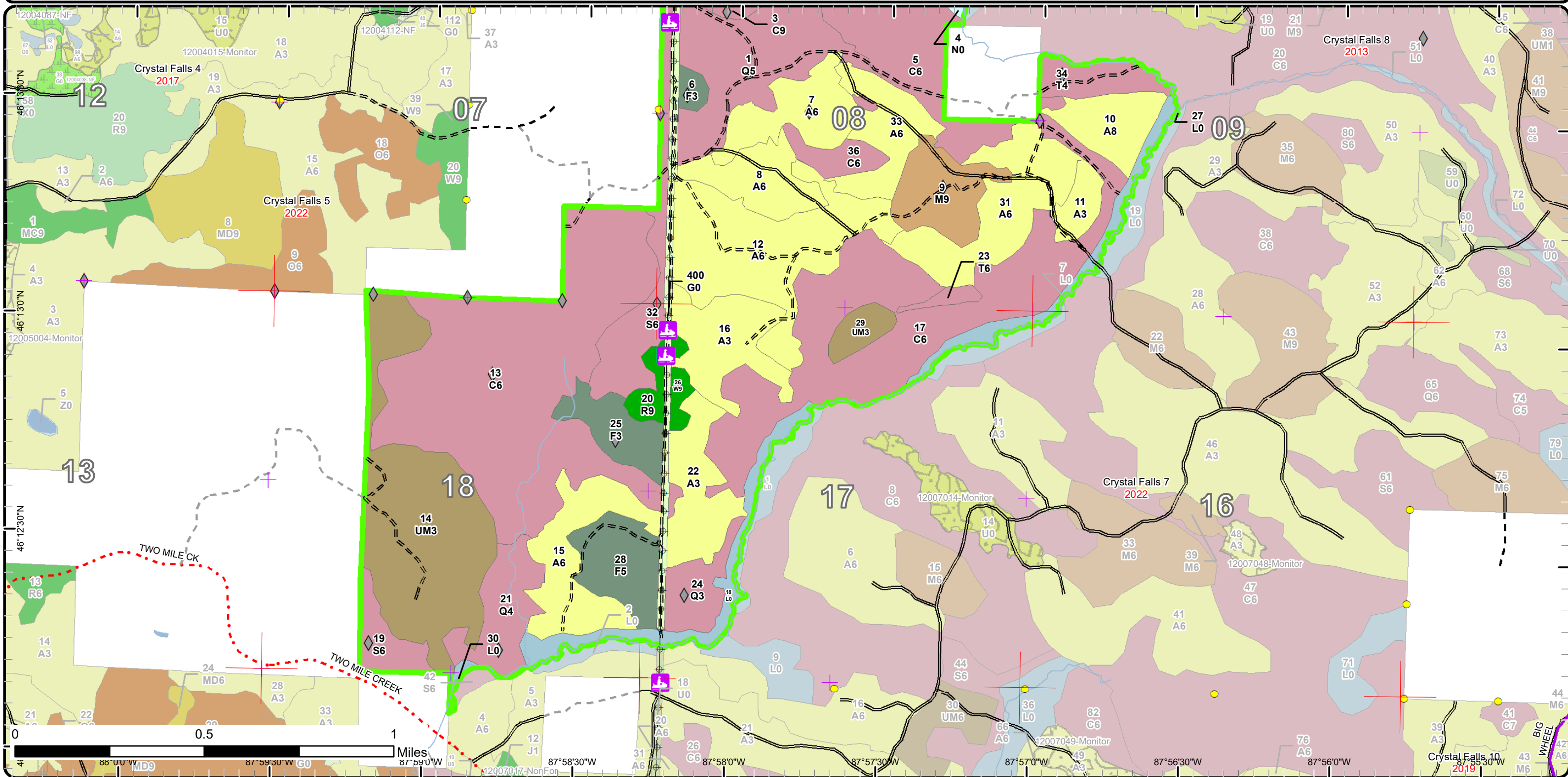


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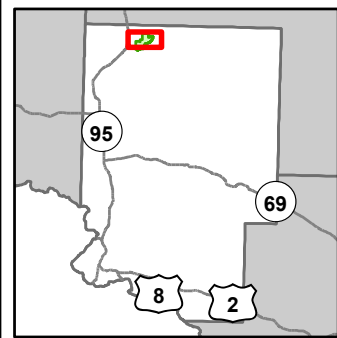


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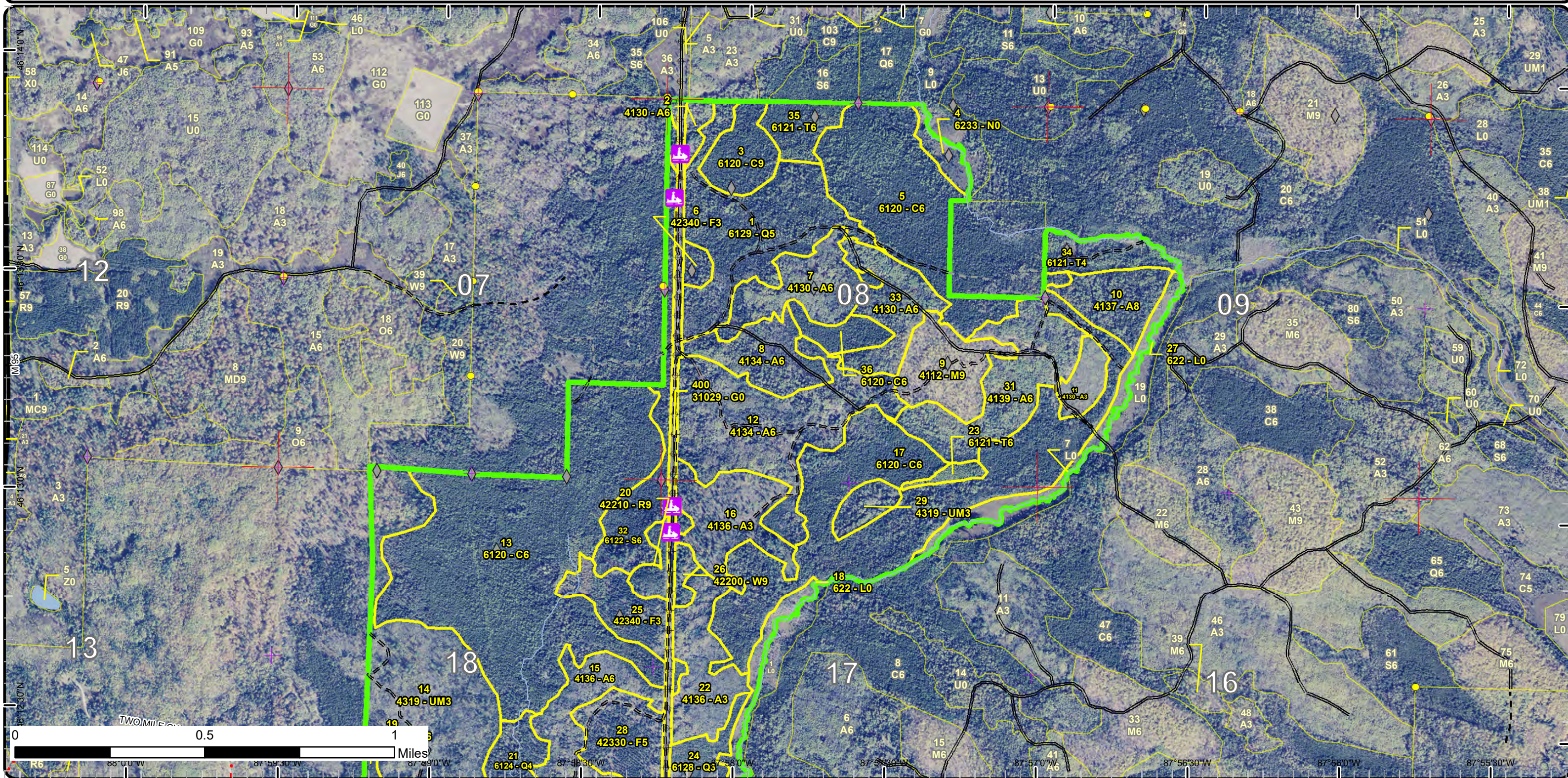


Stand Boundary Map

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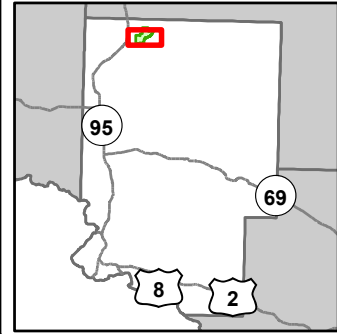


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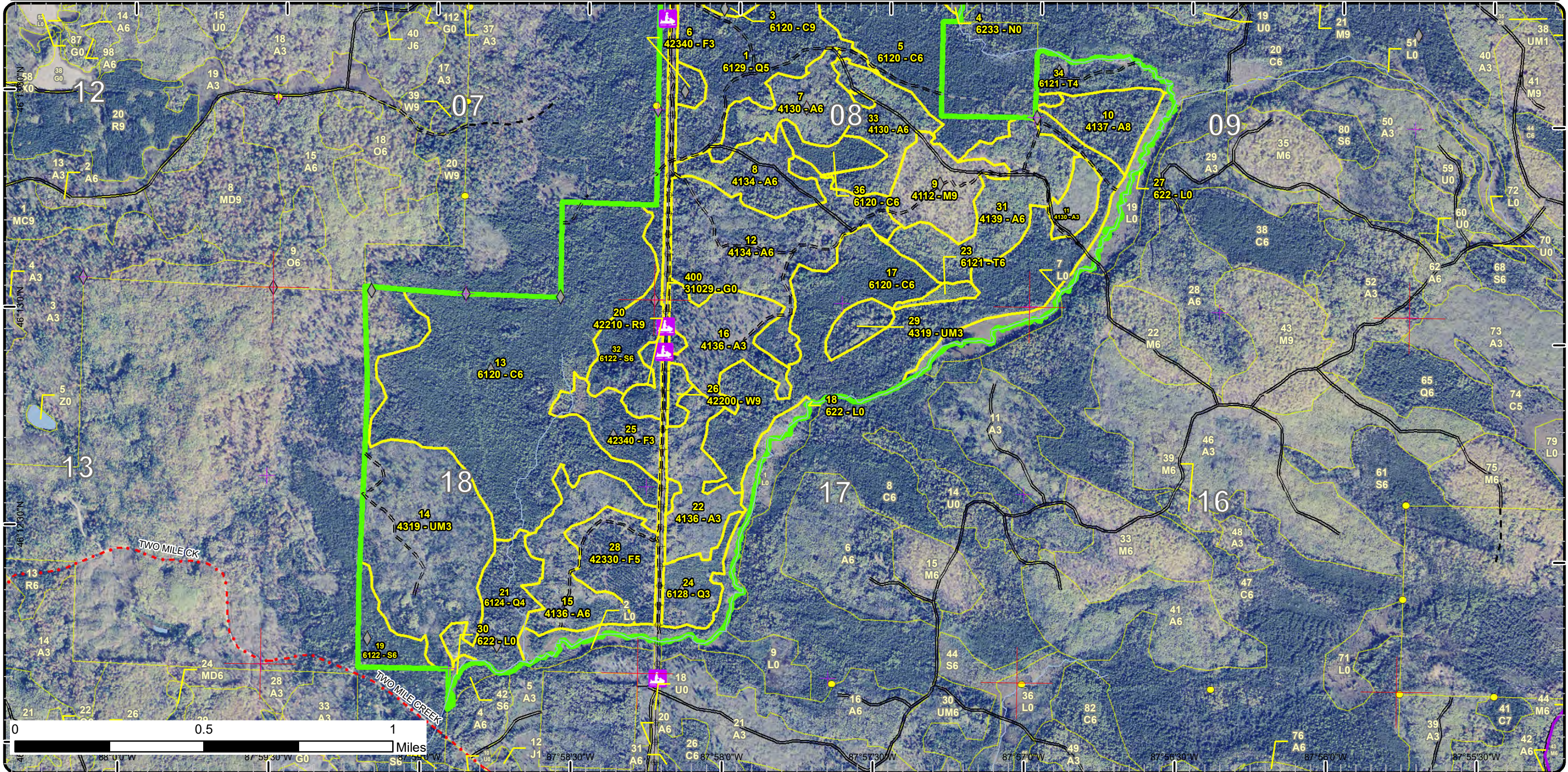


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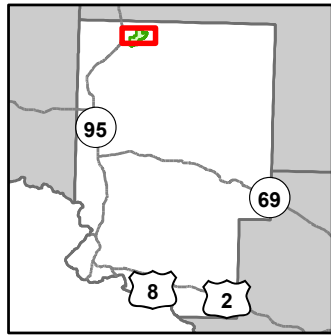


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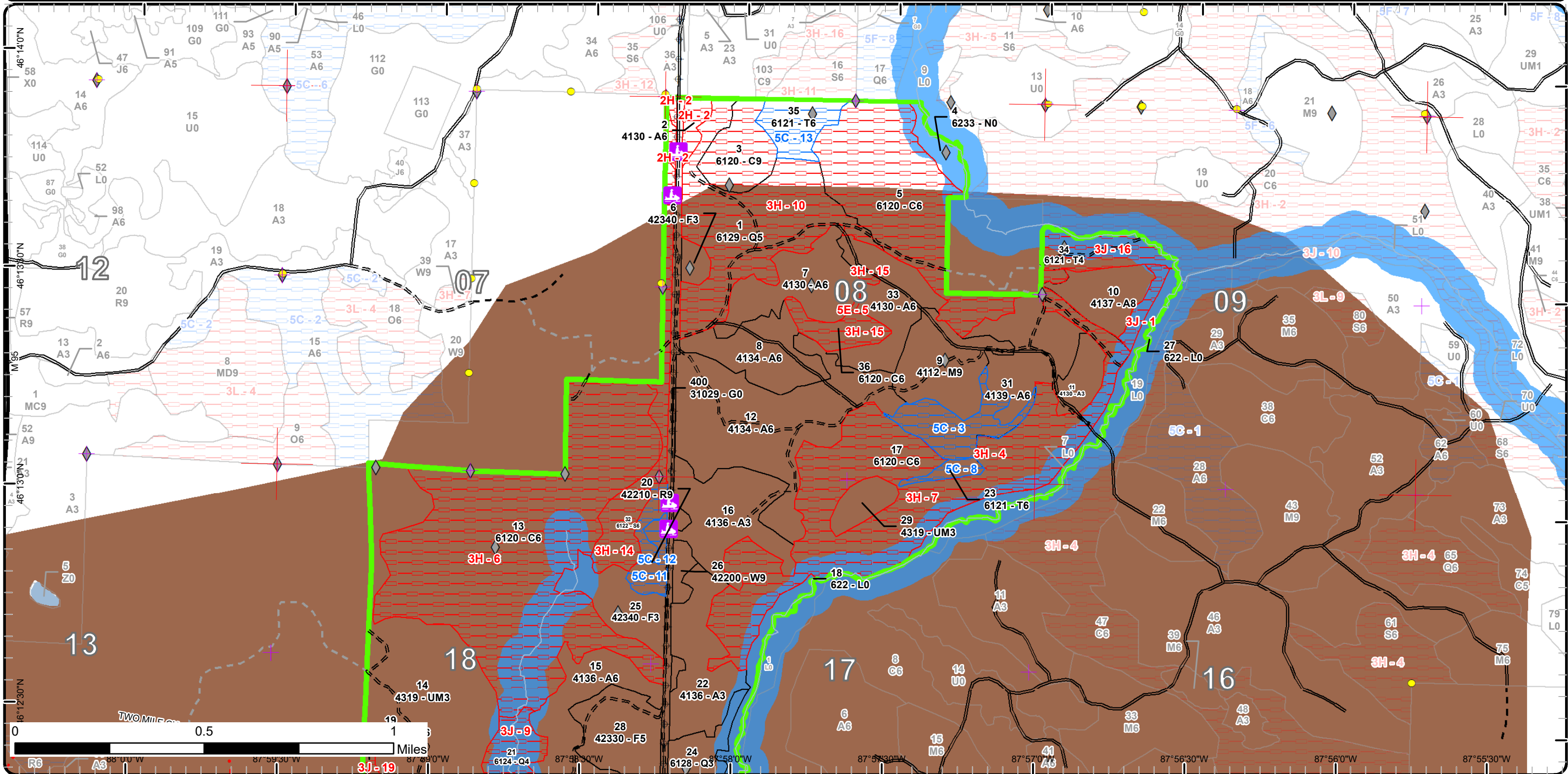


Special Conservation Areas & Site Conditions Map

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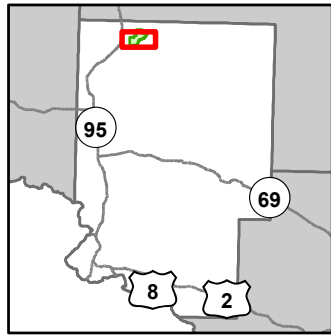


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

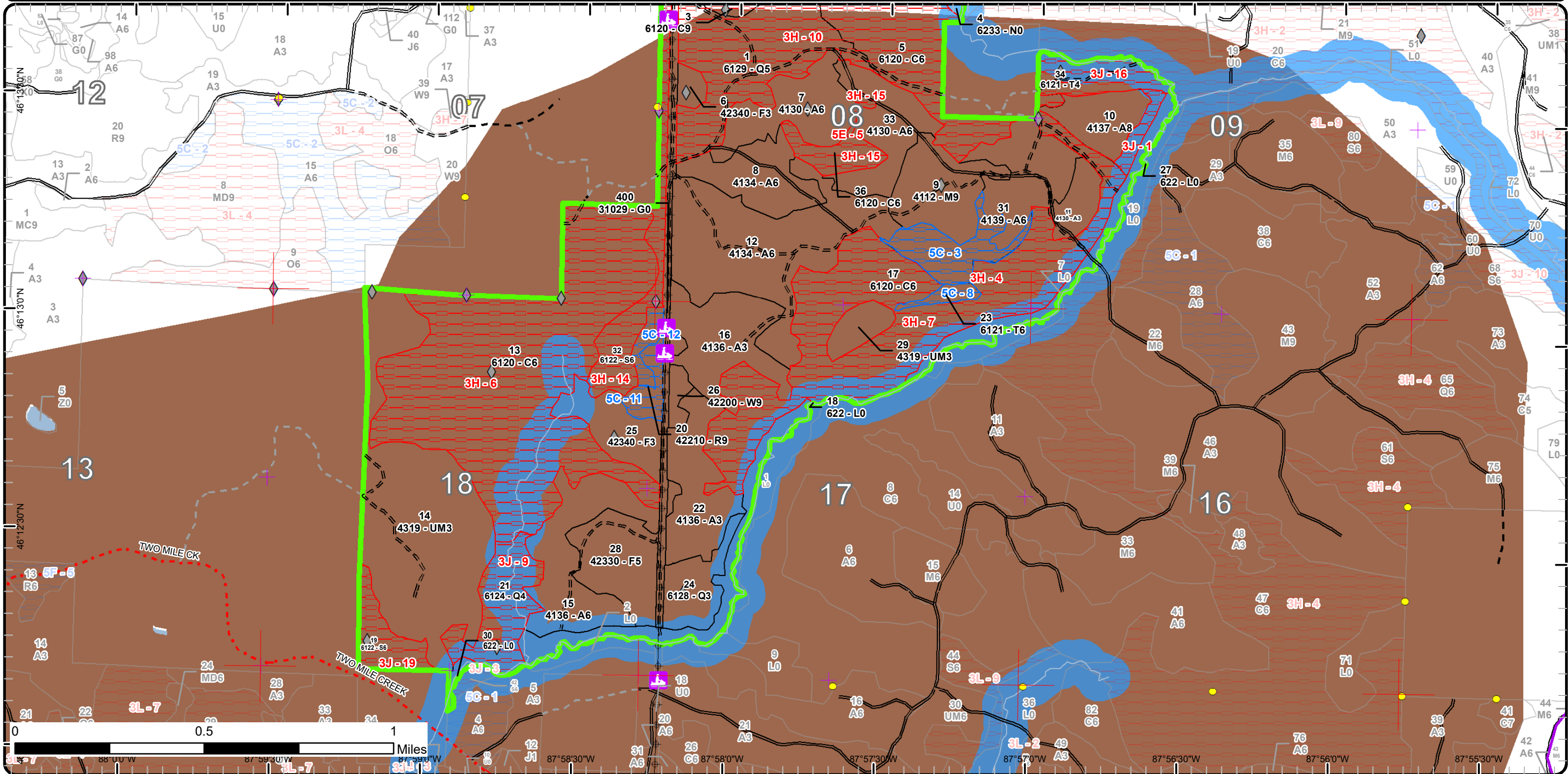


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Report 1 – Total Acres by Cover Type and Age Class



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	0	50	0	201	60	7	0	25	0	0	0	0	0	0	0	0	54	397
Cedar	0	0	0	0	0	0	0	0	0	0	0	269	214	0	0	0	0	0	483
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	21	0	0	0	0	0	77	0	0	0	0	0	0	32	130
Lowland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	16	0	37	0	0	0	0	0	0	53
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	32
Red Pine	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Tamarack	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	118	10	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Upland Spruce/Fir	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	5	59
White Pine	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Total	80	0	50	118	286	60	7	0	25	16	129	339	214	0	0	0	0	91	1414



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Compartment 6
Total Compartment Acres: 1,416

Acres of Harvest

Commercial Harvest - 113
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	83	0	0	0	0	0	0	0	0	83
Northern Hardwood	0	0	0	0	30	0	0	0	0	30
Total	83	0	0	0	30	0	0	0	0	113

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	113	0	0	0	0	0	0	0	0	113
Next Step	0	0	0	0	0	83	0	0	0	83
Total	113	0	0	0	0	83	0	0	0	196



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:

9	12006009-Cut	29.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 basal area. Leave cedar and pine. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> northern hardwood associates <u>Regen:</u> <u>Other</u> Red line out blow down pocket on the north west edge of stand. Include any recent expansion of the blow down pocket if wood can be salvaged. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
10	12006010-Cut	19.9	4137 - Aspen, Birch	Sawtimber Medium	76	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees that are 2 inches and greater at DBH. Green tree 5-10 healthy birch. Buffer 2 mile Creek 300 feet. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, pine & birch <u>Regen:</u> <u>Other</u> Put retention in stream buffer. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
31	12006031-Cut	32.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Do not cut pine and cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, pine & birch <u>Regen:</u> <u>Other</u> No retention as only a portion of the stand will be treated. Cedar pockets should be red lined out. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</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
33 12006033-Cut	30.6	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Do not cut pine and cedar.</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, pine & birch</p> <p><u>Regen:</u></p> <p><u>Other</u> Leave retention on far west side of stand between stand 36; its wetter and has less merchantable wood.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 113.1
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 6

Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
398	364	21	13
483	0	0	483
23	23	0	0
129	21	0	108
49	49	0	0
53	0	6	48
8	8	0	0
32	32	0	0
8	0	8	0
38	0	20	18
128	128	0	0
59	59	0	0
6	6	0	0
1,416	690	55	671
	49%	4%	47%

Dominant Site Conditions

	Dominant Site Conditions				
	5C	2H	3H	3J	5E
Aspen	21	7	0	5	1
Cedar	0		483		
Herbaceous Openland					
Lowland Conifers			77	32	
Lowland Shrub			0		
Lowland Spruce/Fir	6		32	16	
Marsh					
Northern Hardwood					
Red Pine	8				
Tamarack	20		0	18	
Upland Mixed Forest					
Upland Spruce/Fir					
White Pine					
Total Forested Acres	55	7	591	71	1
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)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Stand is essentially 2 hills separated by drainage with possible stream. Access would be difficult. Part of the stand may be able to be harvested with stand 23 of compartment 4.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 6
Year of Entry: 2021



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Smaller aspen diameters and presence of sugar maple poles/saplings justifies holding off on treatment till merchantability is greater.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention (pre-setup)							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	214	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	153	5A: Not able to obtain desirable regeneration	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could harvested in the future with stand to the north							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 6
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9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	180	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mix of black spruce and tamarack adjacent to deer wintering complex. Should not rule out possibility of future harvest.							
14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream runs through middle of stand.							

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
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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 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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	76.8	95	51-80	N/A	A few upland spots with some isolated aspen. Trace amounts of white pine. Areas with open canopy consist mainly of balsam fir & black spruce poles and saplings. Balsam fir hit hard by SBW.																																																				
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2	4130 - Aspen	Poletimber Well	7.0	56	Unspecified	N/A	Trace oak, black spruce and big tooth aspen. Few pockets of smaller aspen. Stand is essentially 2 hills divided by drainage. difficult but not impossible to access. Should be cut with stand to the north in compartment 4. Possible creek through drainage. Some older larger aspen here braking up (75 years old).																																																				
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4	6233 - Wet Meadow	Nonstocked	8.1	94	Unspecified	No																																																					
5	6120 - Lowland Cedar	Poletimber Well	82.0	109	141-170	N/A	Trace aspen and balsam poplar. (2019)																																																				
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6	42340 - Upland Spruce/Fir	Sapling Well	4.8	26	Immature	N/A	Was an aspen stand but fell apart. Therefore, the composition is mainly a mix of spruce and fir sapling/poles that have filled in as the aspen fell apart. Scattered white and red pine in the super canopy along with remaining standing aspen. Trace amounts of super canopy paper birch and cedar.																																																				
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8	4134 - Aspen, Spruce/Fir	Poletimber Well	28.7	46	Unspecified	N/A	Most of the white spruce and balsam fir hit hard by SBW. Some pockets of blowdown observed. Trace amounts of white pine in the super canopy. Large white spruce in the super canopy.																																																					
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9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	32.5	105	111-140	N/A	Trace amounts of Aspen & Cedar. Some sugar maple regen in pockets throughout stand; regen looks to be heavily browsed. Good amount of sugar maple Sap/Poles far south east point of stand. MNFI hit in section 8 and 9 for Yellow banded bumble bee. Treatment should not influence MNFI hit.																																																					
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10	4137 - Aspen, Birch	Sawtimber Medium	25.3	76	Unspecified	N/A	Trace amounts of black ash, white spruce, white pine, balsam fir and red maple in the canopy. Stand is falling apart moving towards uneven aged. Spruce saplings and poles under canopy hit by SBW. MNFI hit in section 8 and 9 for Yellow banded bumble bee. Treatment should not influence MNFI hit.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
12	4134 - Aspen, Spruce/Fir	Poletimber Well	87.4	34	Unspecified	N/A	Scattered open areas filling in with small saplings. Black spruce pockets in south portion of stand. Aspen, BAM, and white spruce range from 4-8". Trace amounts of cedar, red pine, white pine, jack pine and red maple in the overstory. Stand is quite variable.																																																						
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13	6120 - Lowland Cedar	Poletimber Well	214.3	113	111-140	N/A	Creek within stand. (2019)																																																						
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14	4319 - Mixed Upland Forest	Sapling Well	117.9	27	Immature	N/A	Scattered trees and small pockets of larger balsam fir, spruce and aspen (8-10"). Trace amounts of paper birch, white ash, and cedar. Trace amounts of large white pine and red pine (18"). Trace amounts of larger red oak (12"). Most of oak in far northern bubble. Very diverse stand.																																																						
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15	4136 - Aspen, Mixed Conifer	Poletimber Well	45.3	31	Immature	N/A	Trace amounts of jack pine, red pine, cedar and red maple in the overstory. Small pocket, approximately 4 acres in size, of lowland on the south edge of stand containing primarily small tamarack and black spruce with small amount of aspen/balsam poplar. (2018)																																																						
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16	4136 - Aspen, Mixed Conifer	Sapling Well	38.9	16	Immature	N/A	Super canopy white pine and red pine present.																																																						
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17	6120 - Lowland Cedar	Poletimber Well	152.9	108	171-200	N/A	Most of the stand is cedar. Some high ground to the south of stand 23 that contains a mix of aspen, large spruce, and balsam. The latter, high ground, is busting up and lies within the 2 mile creek buffer. Trace amounts of red pine and balsam fir in canopy.																																													
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18	622 - Lowland Shrub	Nonstocked	27.5		Unspecified	No	Some trees adjacent to the lowland included.																																													
19	6122 - Black Spruce	Poletimber Well	16.1	87	81-110	N/A	Stream runs through stand. Small amount of upland in the SW corner.																																													
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20	42210 - Natural Red Pine	Sawtimber Well	8.1	97	141-170	N/A	OPIC - FMD: A few small areas have a great amount of diversity but overall this is mostly just red pine and some white pine. There is one oak here also. The stand runs downhill to the cedar swamp. Trace amounts of aspen, hemlock and oak.																																													
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21	6124 - Lowland Spruce-Fir	Poletimber Poor	31.6	76	1-50	N/A	Very diverse stand with stream running through the middle. Lots of different ages.																																													
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22	4136 - Aspen, Mixed Conifer	Sapling Well	35.2	31	Immature	N/A	OPIC - FMD: The south part of this stand (22) was obviously a Q stand that was cut and regenerated to aspen and balm of gilead with lots of balsam and lots of tag alder and therefore I made it a separate stand (26). Trace amounts of red pine and white pine. (2018)																																													
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24	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	20.6	31	Immature	N/A	Rocky, wet and variable in size.																																																																		
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25	42340 - Upland Spruce/Fir	Sapling Well	22.7	31	Immature	N/A	Lowland area in NW corner of stand with scattered trees.																																																																		
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26	42200 - Natural White Pine	Sawtimber Well	6.2	97	81-110	N/A	OPIC - FMD: This pine is real nice and the aspen was cut out of it. The aspen will grow back and should remain a diverse stand. Also, the pine is good deer habitat.																																																																		
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27	622 - Lowland Shrub	Nonstocked	19.6	0	Unspecified	No	Stream runs through stand looks to be very wet to the north and south of tamarack. (2019)																																																																		



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28	42330 - Upland Fir	Poletimber Medium	31.3	31	Unspecified	N/A	Trace amounts of jack pine and red pine in the overstory.																																																													
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29	4319 - Mixed Upland Forest	Sapling Well	10.2	34	Immature	N/A	Lots of SBW damage. On the verge of being pole stand. (2018)																																																													
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31	4139 - Aspen, Mixed Deciduous	Poletimber Well	54.4	48	Unspecified	N/A	Very diverse stand. Stand was part of a deer emergency cut in 1972. The latter, deer emergency cut, has resulted in uneven stand structure. Trace amounts of black ash, white pine, and cedar. Most of the black spruce is along southern edge of stand adjacent to Stand 17 and 23. MNFI hit in section 8 and 9 for Yellow banded bumble bee. Treatment should not influence MNFI hit.																																																													
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32	6122 - Black Spruce	Poletimber Well	37.3	107	111-140	N/A	Trace amounts of tamarack and balsam poplar in canopy. Far north strip of stand has stream that intersects. (2019)																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
33	4130 - Aspen	Poletimber Well	31.5	48	Unspecified	N/A	Stand was part of a deer emergency cut in 1972. Aspen looks to be more even aged than stand 31. East portion of stand between stand 36 has higher percent of balsam fir and some black ash saplings. Trace amounts of cedar and sugar maple. MNFI hit in section 8 and 9 for Yellow banded bumble bee. Treatment should not influence MNFI hit.																																	
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34	6121 - Tamarack	Poletimber Poor	18.2	96	Unspecified	N/A	Stream runs through stand looks to be very wet to the north and south of tamarack. (2019)																																	
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36	6120 - Lowland Cedar	Poletimber Well	12.9	109	141-170	N/A	Trace amounts of black spruce, tamarack, balsam poplar and aspen. (2019)																																	
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400	31029 - Grass (OI)	Nonstocked	23.0		Unspecified	No	OPIC - FMD: Powerline and snowmobile trail. There are many permanent deer blinds on this power line and Conservation Officers from the area were notified about them.																																	