



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12185

Entry Year 2022

Acreage: 1,599

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2020-10-19

Stand Examiner: Ed Rice

Legal Description:

Identified Planning Goals:

Soil and topography:

The soil moves from Lupton and Greenwood to different phases of Sundog. Terrain ranges from low to very steep ridge and hill areas.

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

This is a fairly contiguous compartment. Industrial forest ownership and private holdings are adjacent to the compartment.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

This compartment contains the west and east branches of the Fence River, the Fence River, and Camp Creek, all of which are Type 1 trout streams. The east branch and main branch are greater than 50' in width therefore a 100' buffer is recommended. The west branch and Camp Creek are less than 50' in width. A 300' buffer is recommended for the West Branch and Camp Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' buffer plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located along the Fence River in northeast Iron County on the north edge of an extensive aspen type that changes to upland northern hardwood. Maintaining intolerant types is preferred, however, much spruce/fir has been lost in this compartment, so further loss of the type or conversion to aspen is not recommended. This compartment is part of the Deerfoot Lodge DWC and was the first DWC to have a pilot management plan written to direct future harvest plans.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation, Randville Dolomite and Archean granite and gneiss subcrop below the glacial drift. The Randville is quarried for marble/stone twelve miles to the south. The Porter and Warner abandoned iron mines are located eleven miles to the southwest. Section 8 was previously leased for metallic exploration. A gravel pit is located in the center of Section 8 and there appears to be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good. Interior roads are for the most part poor or impassible.

Survey Needs:

Recreational Facilities and Opportunities:

Fire Protection:

Fire starts are likely to be minimal. There is a small spruce fir fuel complex in the southern sections of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

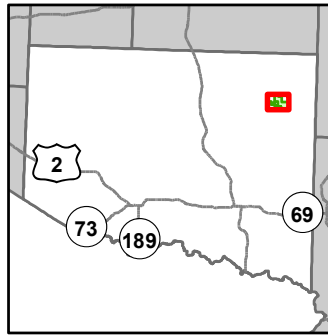
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

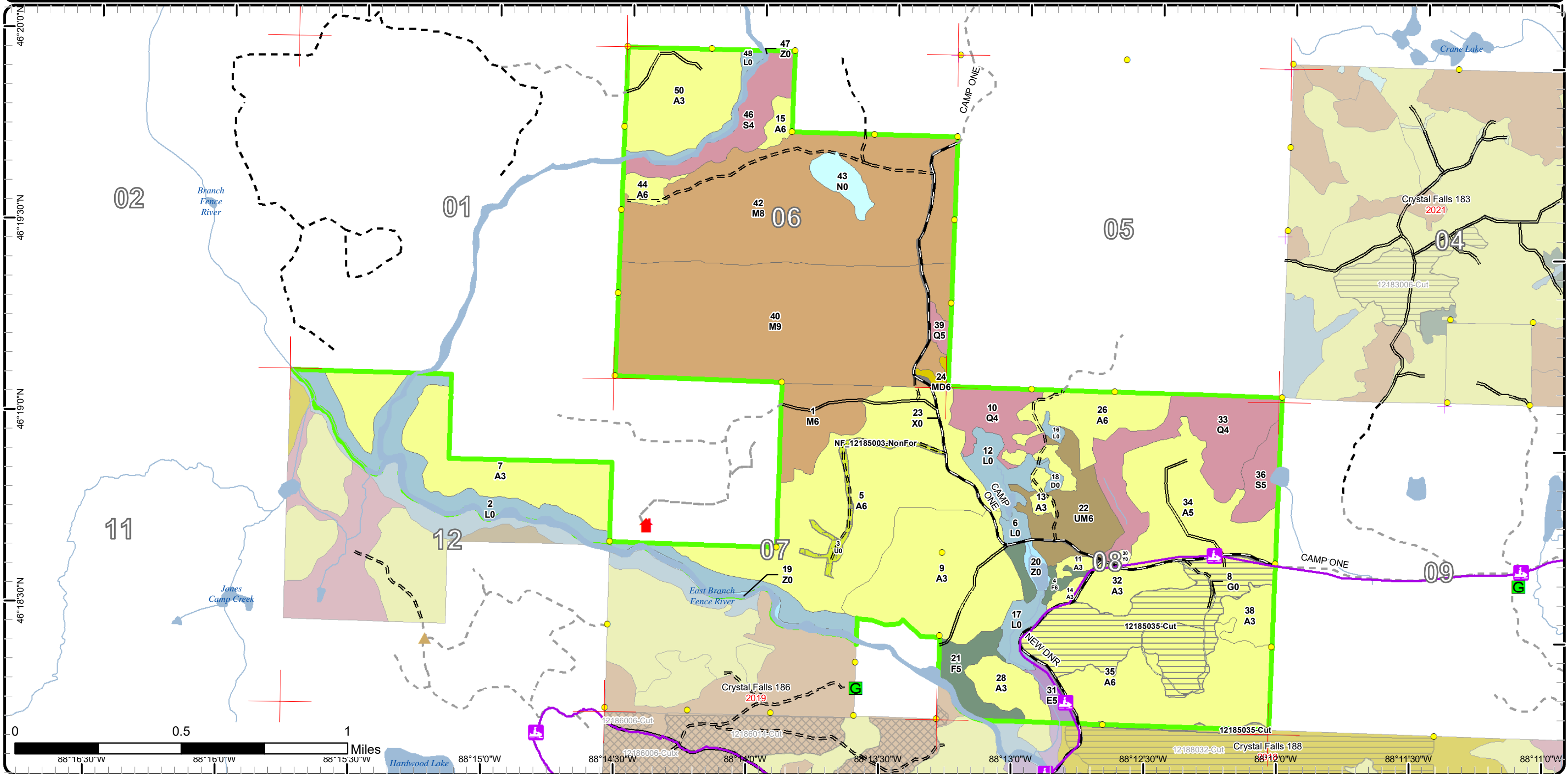
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 185
 T45N, R32W, Sec. 12
 T45N, R31W, Sec. 6-8
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme
 Reservoir
 YOE: 2022
 Acres: 1599.1 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 1/22/2021
 Map Phase: Post-Review

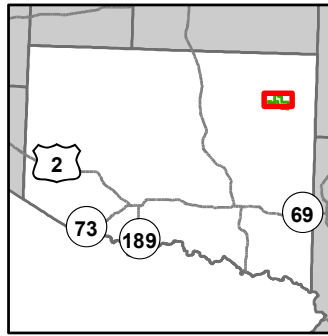


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|--|-----------------------------------|-----------------------------|
| — Miris Corners | — Gate | ■ 122 - Roads/Parking Lot |
| — Remonumented Section Corners | — Lake/Pond | ■ 310 - Herbaceous Openland |
| ● Survey Grade Corners | — Perennial River | ■ 330 - Low Density Trees |
| — Counties | — Lakes and Rivers | ■ 500 - Water |
| — DNR - Primary Forest Road | — Compartment Boundary | ■ 622 - Lowland Shrub |
| — DNR - Secondary Forest Road | — Other Treatment - See Comments | ■ 623 - Emergent Wetland |
| — DNR - Forest Access Route | — Clearcut (w/Reserves) | ■ 710 - Sand/Soil |
| — Federal / State - Dirt / Gravel Road | ■ 411 - Northern Hardwood | |
| — Private - Dirt / Gravel Road | ■ 413 - Aspen | |
| — Snowmobile Trails | ■ 419 - Mixed Upland Deciduous | |
| — Designated Snowmobile Trails | ■ 423 - Other Upland Conifers | |
| ▲ Cabin | ■ 430 - Upland Mixed Forest | |
| ▲ Berms | ■ 611 - Lowland Deciduous Forest | |
| | ■ 612 - Lowland Coniferous Forest | |

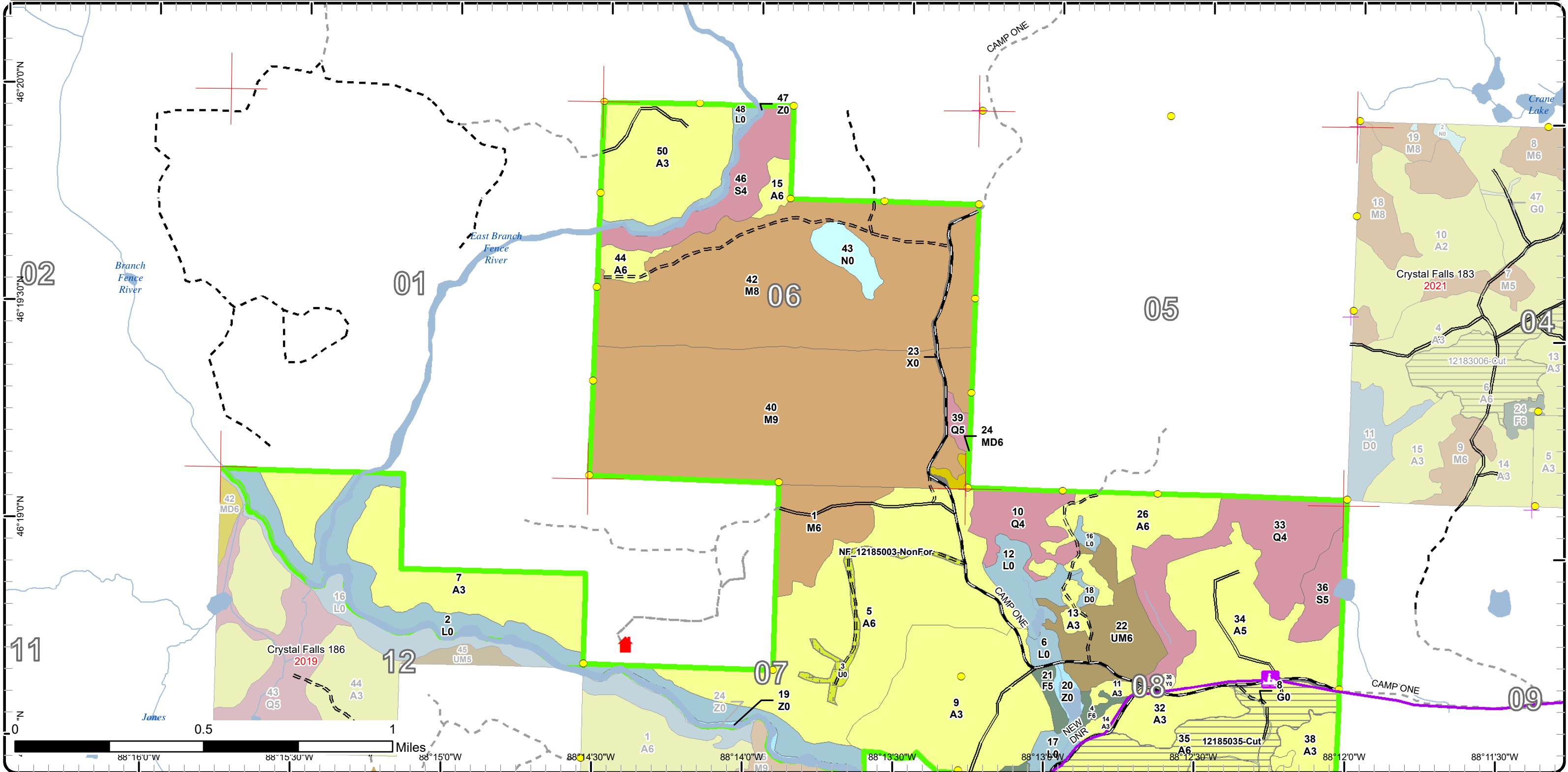


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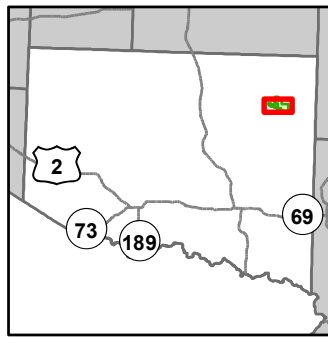


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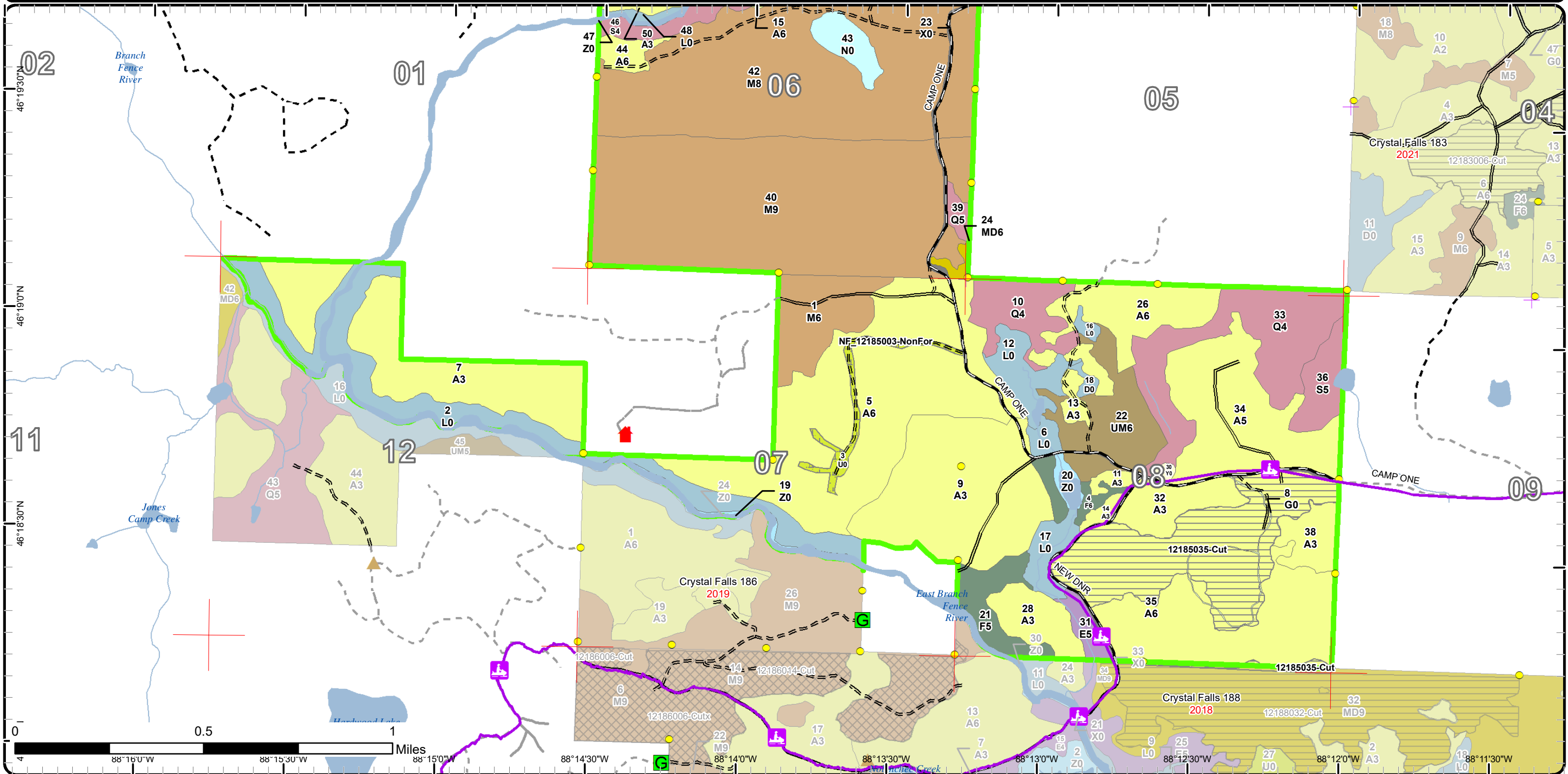


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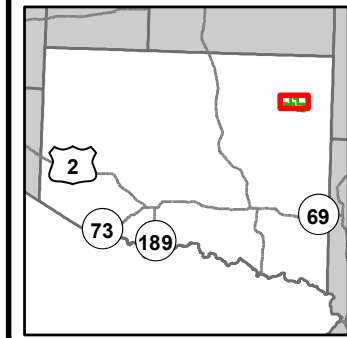


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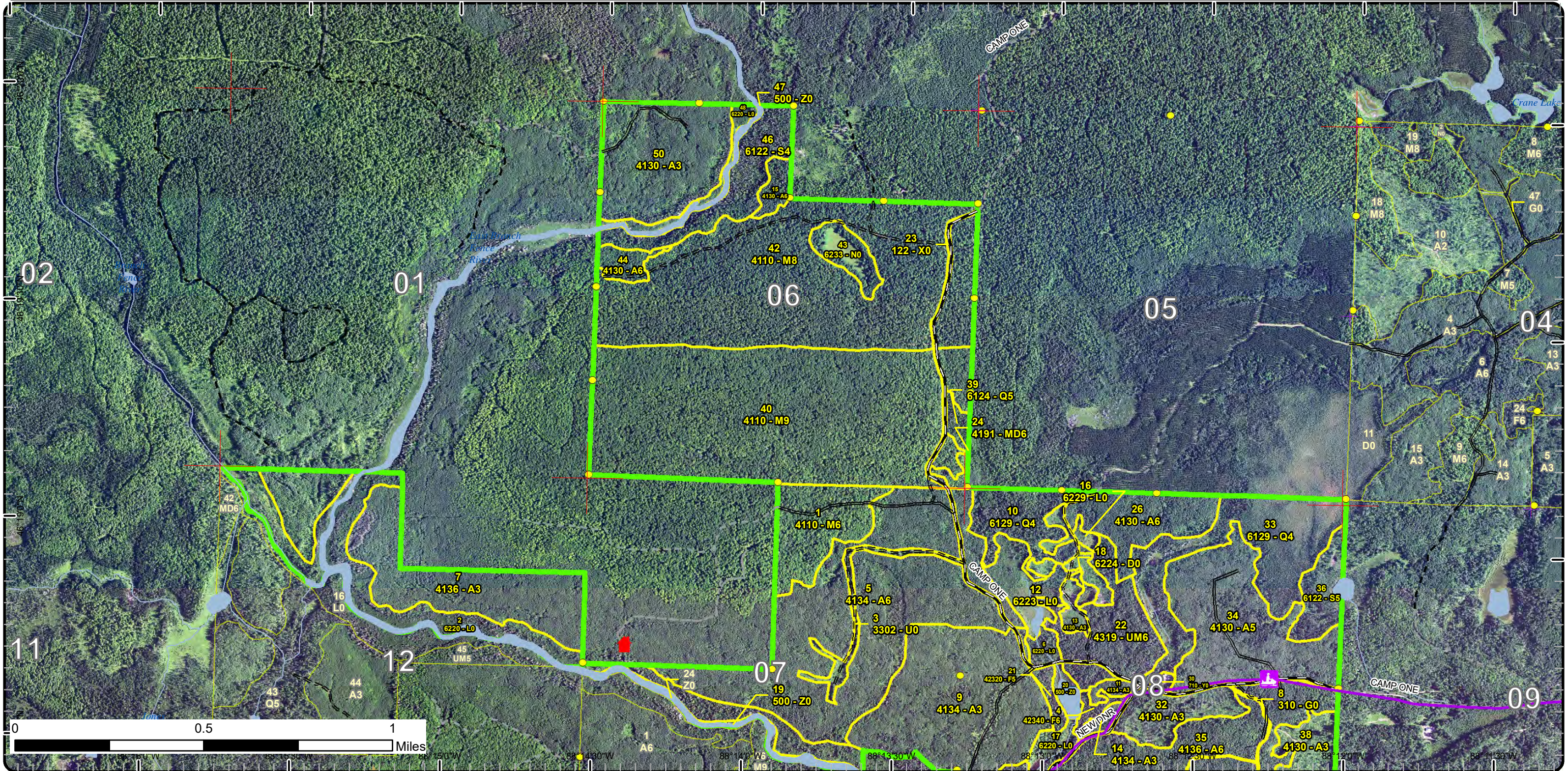


Stand Boundary Map

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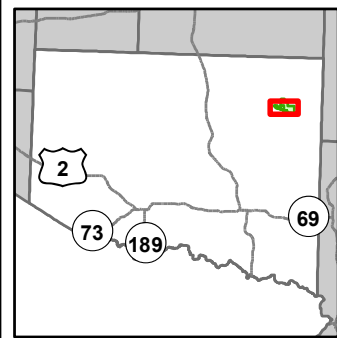


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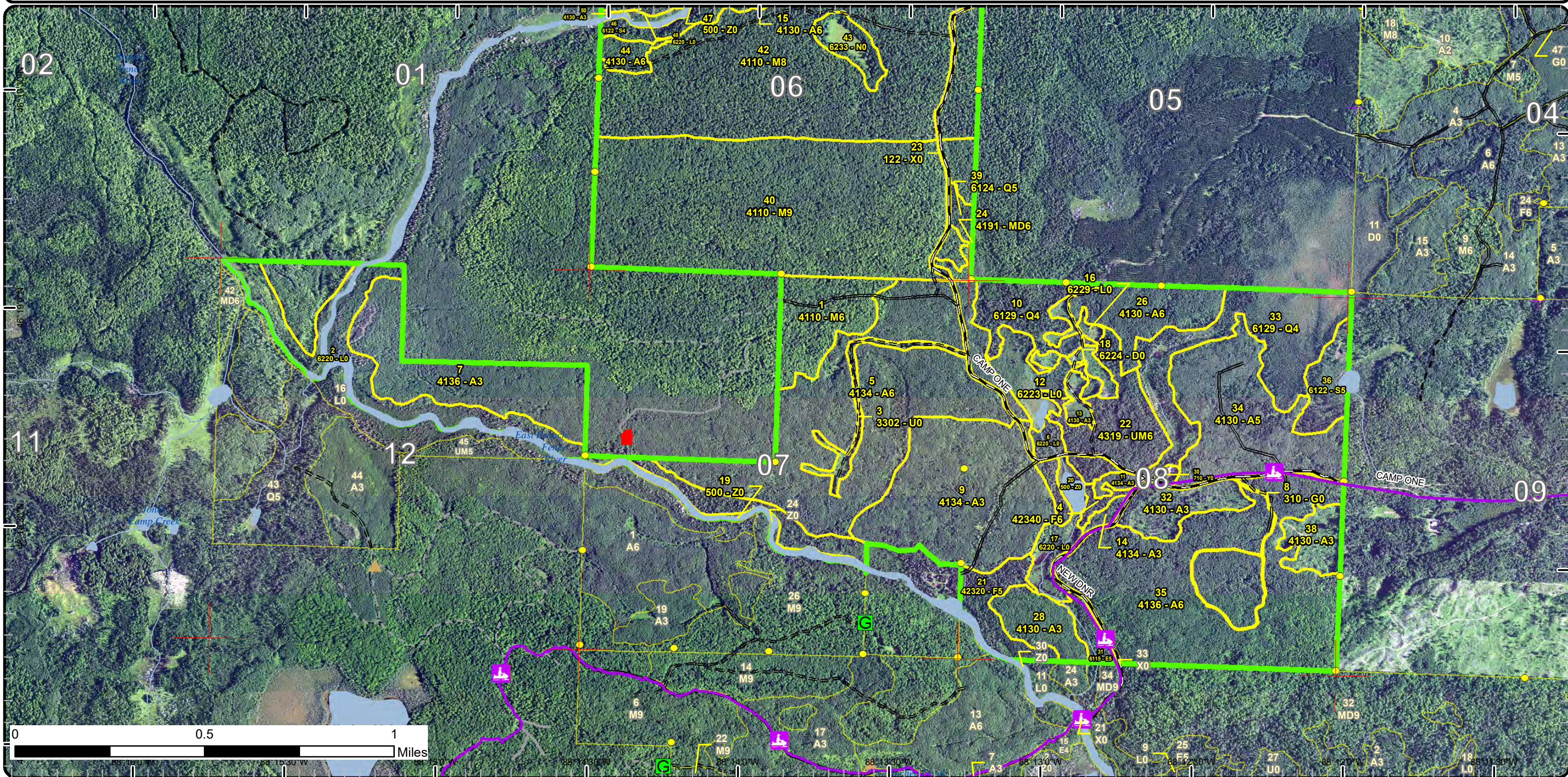


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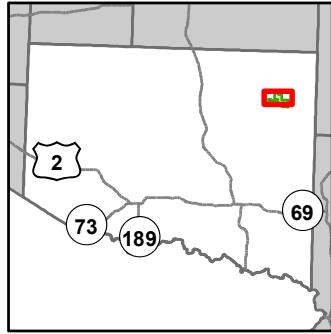


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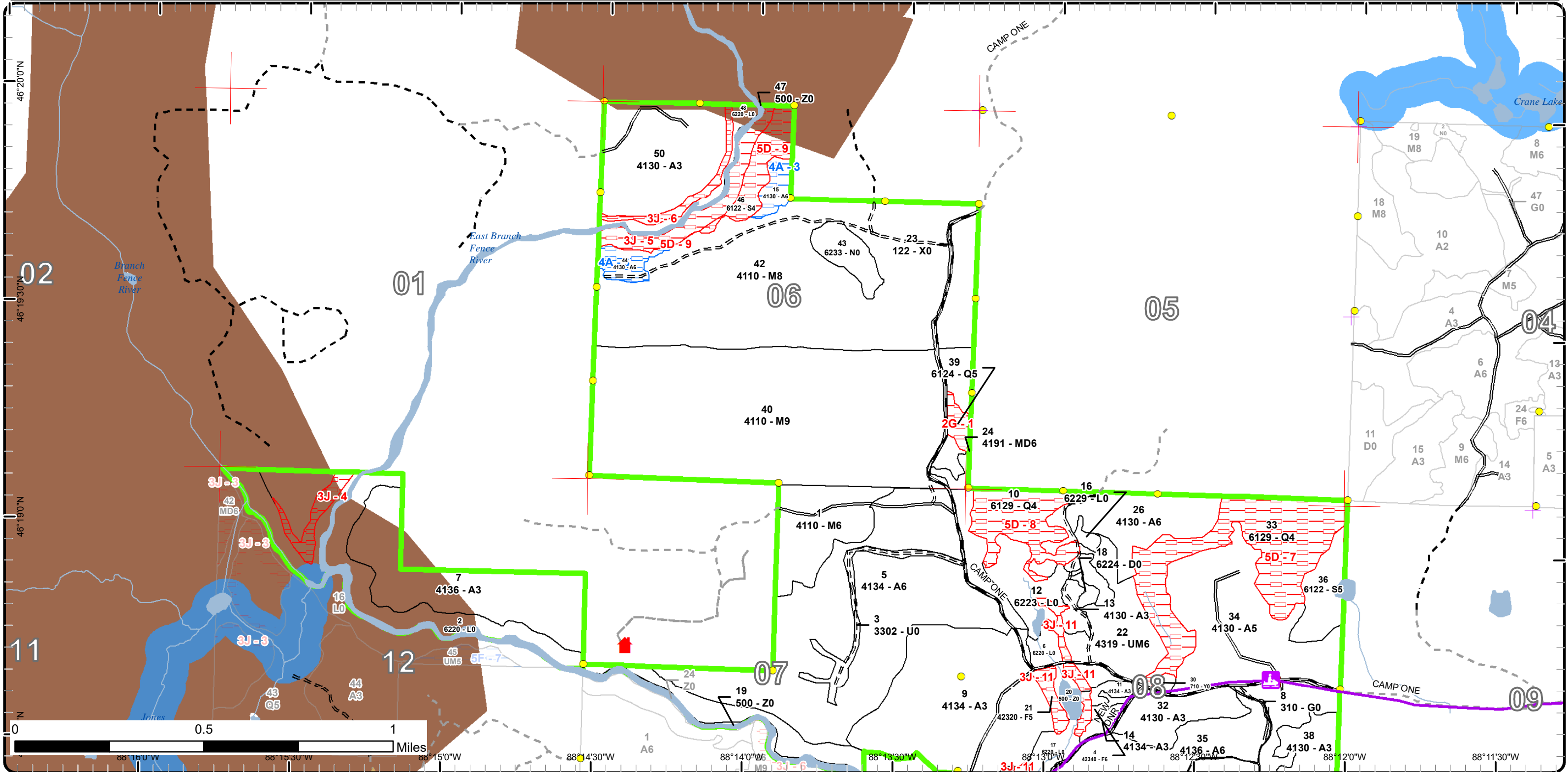


Special Conservation Areas

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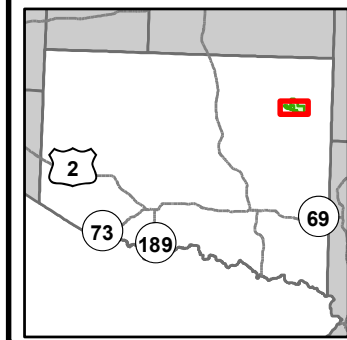


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- Perennial River
- 🟦 Lakes and Rivers
- 🟩 Compartment Boundary
- 🟨 Available w/ Constraints
- 🔴 Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 🏠 Stand Boundaries
- 🟦 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer
- 🟤 Deer Winter Range

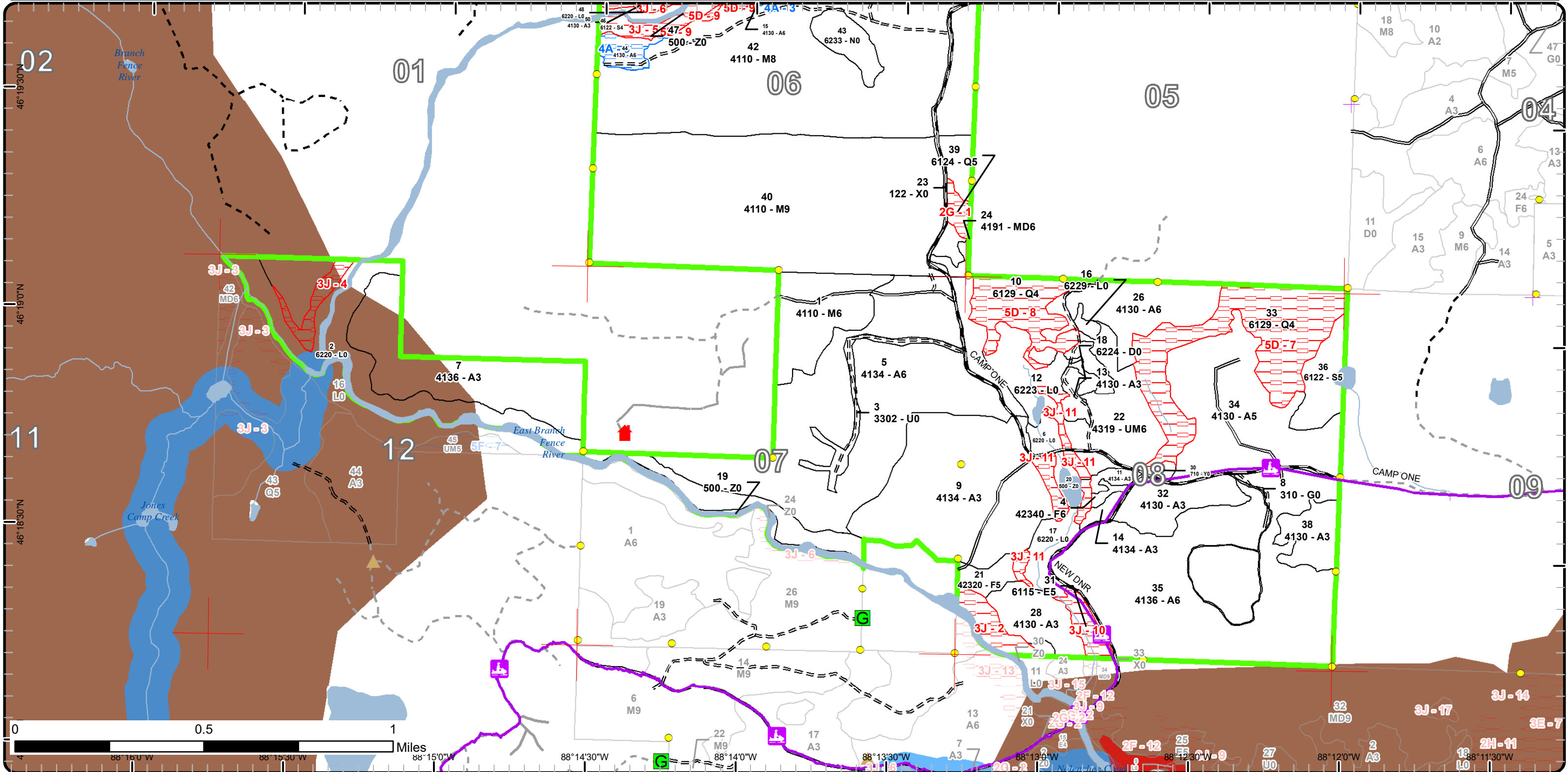


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- Unavailable
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



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	51	96	160	439	0	14	0	0	0	0	0	0	0	0	0	0	0	759
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	4	26	0	0	0	63	0	0	0	0	0	0	0	93
Lowland Deciduous	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Spruce/Fir	0	0	0	0	0	0	17	0	30	0	0	0	0	0	0	0	0	0	47
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	201	0	0	0	0	0	0	0	0	0	255	455
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Spruce/Fir	0	0	0	0	0	4	24	0	0	0	0	0	0	0	0	0	0	0	28
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	170	51	96	160	484	8	81	201	33	0	63	0	0	0	0	0	0	255	1600



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Compartment 185
Total Compartment Acres: 1,599

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		95	0	0	0	0	0	0	0	0	95
	Total	95	0	0	0	0	0	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	0	9	0	104
Next Step		0	0	0	0	0	95	0	0	0	95
	Total	95	0	0	0	0	95	0	9	0	199



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

35	12185035-Cut	94.6	4136 - Aspen, Mixed Conifer	Poletimber Well	38	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut aspen, spruce, fir, w birch and cherry 1 stick tall and larger. leave a component of w birch and cherry where available - 1 tree per cruise</p> <p><u>Specs:</u> point. separate from comp 188 cut immediately adjacent to the south by leaving an uncut area. do not cut red or white pine, oak or hemlock. Buffer adjacent creeks 100 feet.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce fir</p> <p><u>Regen:</u></p> <p><u>Other</u> stand cut out of YOE due to April 2017 storm</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /15/2017</p>											
3	NF_12185003-NonFor	9.3	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	31021 - Cool Season Grass		No
<p><u>Prescription</u> Opening Maintenance: Disc, Seed & Fertilize and Berm Hunter Walking Trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/30/1899</p>											

Total Treatment Acreage Proposed: 103.9



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	4A	2G	3J	5D	
759	732	14	13	Aspen	14		13	
2	2	0	0	Herbaceous Openland				
9	9	0	0	Low-Density Trees				
92	0	0	92	Lowland Conifers		4		88
7	0	0	7	Lowland Deciduous			7	
115	115	0	0	Lowland Shrub				
47	17	0	30	Lowland Spruce/Fir			16	14
12	12	0	0	Marsh				
3	3	0	0	Mixed Upland Deciduous				
456	456	0	0	Northern Hardwood				
2	2	0	0	Sand, Soil				
2	2	0	0	Treed Bog				
38	33	0	5	Upland Mixed Forest			5	
27	10	0	17	Upland Spruce/Fir			17	
12	12	0	0	Urban				
16	16	0	0	Water				
1,599	1,420	14	165	Total Forested Acres	14	4	59	103
	89%	1%	10%	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	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 185
Year of Entry: 2022



3	Available	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: market for products is present but small acreage given the distance to main roads and mills do not make treatment feasible at this time							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5D: Unproductive Forest Land	63	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5D: Unproductive Forest Land	26	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							



9	Unavailable	5D: Unproductive Forest Land	14	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	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
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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 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.
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	4110 - Sugar Maple Association	Poletimber Well	34.7	61	51-80	N/A	thinned in 2017 as a salvage cut due to windstorm. portion/majority of the stand was cut. very good h maple seedling/sapling recruitment. component of h maple and r maple 14-18" dbh																																	
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2	6220 - Alder/willow	Nonstocked	72.8	0	Unspecified	No	tag alder/swamp grass adjacent to Fence River																																	
3	3302 - Low Density Conifer Trees	Nonstocked	9.3		Unspecified	Managed Opening	old hunter walking trail - areas of dense spruce/fir growing in. needs to be reclaimed if desired to remain																																	
4	42340 - Upland Spruce/Fir	Poletimber Well	3.7	42	81-110	N/A	dense upland spruce/fir. semi low in areas transitioning to lowlands to the W																																	
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5	4134 - Aspen, Spruce/Fir	Poletimber Well	160.2	35	Unspecified	N/A	scattered aspen 7" dbh. small areas of lower stocked. scattered pockets of windthrow from 2017 storm																																	
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6	6220 - Alder/willow	Nonstocked	4.5		Unspecified	No	tag alder with scattered lowland conifers. small creek runs to Fence River																																	
7	4136 - Aspen, Mixed Conifer	Sapling Well	83.2	30	Immature	N/A	majority of stand is sapling size class with scattered trees moving into small diameter poletimber. small conifer inclusions.																																	
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8	310 - Herbaceous Openland	Nonstocked	1.7	0	Unspecified	No	hunter walking trail																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
9	4134 - Aspen, Spruce/Fir	Sapling Well	96.2	18	Immature	N/A	scattered r maple from previous cut																																	
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	25.7	57	81-110	N/A	areas very poorly to no tree stocking, dense with tag alder																																	
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12	6223 - Inundated Shrub Swamp	Nonstocked	17.8		Unspecified	No	tag alder with scattered spruce, tamarack. open marsh																																	
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13	4130 - Aspen	Sapling Well	14.6	7	Immature	N/A																																		
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15	4130 - Aspen	Poletimber Well	6.4	51	Unspecified	N/A	very scattered fir 6-7"dbh. w birch component in very N end 10-12"dbh																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	6229 - Mixed lowland shrub	Nonstocked	1.9		Unspecified	No	tag alder marsh, open in the center. seasonally ponded
17	6220 - Alder/willow	Nonstocked	11.3	0	Unspecified	No	tag alder, old beaver meadows with associated b ash and scattered balm.
18	6224 - Treed Bog	Nonstocked	2.0		Unspecified	No	leatherleaf bog ringed by b spruce
19	500 - Water	Nonstocked	7.2		Unspecified	No	Fence River
20	500 - Water	Nonstocked	4.6		Unspecified	No	bog pond

21	42320 - Upland Spruce	Poletimber Medium	23.5	50	81-110	N/A	adjacent to Fence River
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	7	
Black Spruce	60	Pole	7	50
Balsam Fir	20	Pole/Sapling	6	
Tamarack	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

22	4319 - Mixed Upland Forest	Poletimber Well	37.9	39	81-110	N/A	scattered aspen 8-9" dbh
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	6	39
Balsam Fir	15	Pole/Sapling	5	
Black Spruce	30	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	>20 feet	Sapling
Black Spruce	High	>20 feet	Sapling

23	122 - Road/Parking Lot	Nonstocked	12.3	0	Unspecified	No	Camp 1 Rd / Fence River Rd / New DNR Rd
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24	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.7	74	81-110	N/A	Prevalent to 5 - 6" dbh poles. poor R maple advanced sapl growth better quality. associated overmature aspen. S end of stand slightly more higher ground - R maple, aspen, fir
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole	7	
Red Maple	35	Pole/Log	8	74
Yellow Birch	10	Pole/Log	10	
Quaking Aspen	5	Log	14	
Balsam Fir	20	Pole	9	
White Spruce	15	Pole/Log	9	
White Pine	5	XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4130 - Aspen	Poletimber Well	31.3	37	Unspecified	N/A	very dense fire understory
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole	6	37	Hazelnut (American)	
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	
White Spruce		5	Pole/Sapling	6		Density	
						Avg. Height	
						Size	
						Tall Shrub	
						Sapling	
28	4130 - Aspen	Sapling Well	18.9	28	Immature	N/A	just moving into poletimber
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Sapling/Pole	4	28	Balsam Fir	
Balsam Fir		10	Sapling/Pole	4		Density	
White Spruce		10	Sapling/Pole	4		Avg. Height	
						Size	
						Sapling	
30	710 - Sand, Soil	Nonstocked	1.7		Unspecified	No	gravel pit
31	6115 - Lowland Ash	Poletimber Medium	7.3	33	Immature	N/A	very wet lowland stand, springs - black muck. marsh marigold present showing how wet stand is. buffer along Camp Creek
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole/Sapling	6		Tag Alder	
Black Ash		85	Pole	6	33	Density	
Balsam Poplar		10	Log	12		Avg. Height	
						Size	
						Tall Shrub	
32	4130 - Aspen	Sapling Well	20.8	7	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		90	Sapling	1	7		
Balsam Fir		5	Pole/Sapling	5			
White Spruce		5	Sapling/Pole	3			
33	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	62.6	95	81-110	N/A	stand follows drainage, leading out of a large treed bog
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Sapling	6		Balsam Fir	
Black Spruce		15	Pole	6		Tag Alder	
Northern White Cedar		45	Pole/Log	9	95	Density	
Tamarack		25	Pole	6		Avg. Height	
White Pine		5	Log	12		Size	
						Tall Shrub	
34	4130 - Aspen	Poletimber Medium	72.7	26	Immature	N/A	scattered w spruce 8 - 9" dbh. stand just moving into poletimber size class: A3/A5
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Pole/Sapling	5	26	White Spruce	
Balsam Fir		10	Pole/Sapling	5		Density	
White Spruce		10	Pole/Sapling	6		Avg. Height	
White Pine		5	XLog	18		Size	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
35	4136 - Aspen, Mixed Conifer	Poletimber Well	164.4	38	Unspecified	N/A	pockets of good h maple regeneration. slight y birch, r maple component to the stand. scattered aspen 10-11" dbh. stand received heavy wind storm damage in April 2017, this portion is under a current cutting contract																																														
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36	6122 - Black Spruce	Poletimber Medium	16.6	58	81-110	N/A	stand transitions to stunted bog spruce towards center of the stand. small bog pond																																														
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39	6124 - Lowland Spruce-Fir	Poletimber Medium	4.1	46	Unspecified	N/A	small acreage lowland conifer swamp. edges cut with windthrow salvage sale in spring 2018. interior is too wet for operations.																																														
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40	4110 - Sugar Maple Association	Sawtimber Well	219.8	68	51-80	N/A	H maple sawtimber component 12 -18" dbh. fair - good form, clear to 1 1/2 - 2 logs. very good H maple sapling regeneration from 2017 salvage cut. 3' tall. SW corner of stand holds small lower ground area with scattered upland cedar, likley flooded out during spring run off. pockets of elderberry along W and N ends. areas of lower stocking have raspberry/B cherry saplings. scattered vernal areas. small areas of well stocked n hardwoods																																														
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42	4110 - Sugar Maple Association	Sawtimber Medium	201.1	68	51-80	N/A	scattered pockets of fully stocked b cherry saps 2 - 6' tall but with blacknot prevalent. very good h maple regeneration from 2017 salvage cut. fair to good form on H maple - clear boles to 20 -30', sawt 1 1/2 - 2 log heights. Areas of good advanced h maple regen 6 - 8' tall mixed with ironwood saplings. Scattered areas appearing to be lower ground, likley flooded during spring run off. great H maple regen E of Camp 1 Rd. 5 - 8' tall with scattered fir. slight component of elm																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
43	6233 - Wet Meadow	Nonstocked	11.8		Unspecified	No	swamp grass meadow ringed with cedar, fir and spruce. flooded out in spring																																													
44	4130 - Aspen	Poletimber Well	7.3	51	Unspecified	N/A	very scattered fir 6-7"dbh. w birch component in very N end 10-12"dbh																																													
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46	6122 - Black Spruce	Poletimber Poor	30.3	70	Unspecified	N/A	lowland conifer along Fence River. many interspersed alder openings, very low cords/acre (6 cd/ac)																																													
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48	6220 - Alder/willow	Nonstocked	7.1		Unspecified	No	tag alder, willow, swamp grass along Fence River																																													
50	4130 - Aspen	Sapling Well	62.1	24	Unspecified	N/A	Aspen sapings 2 - 3" dbh, slight a aspen poletimber- very scattered poletimber sized trees. widely scattered large w pine. small pockets of scattered tag alder																																													
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