



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12183

Entry Year 2021

Acreage: 1,665

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2019-07-31

Stand Examiner: Ed Rice

Legal Description:

T45N R31W sections 1, 4, 10, 11, 12

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

There are large expanses of fine sandy loams and sandy loams with cobble. The lowland areas are underlaid by muck soils. The topography ranges from fairly steep rolling to flat and low swamp land.

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

The compartment is basically separated into three blocks of state ownership with private lands between. A large block of industrial forestland is in section 11. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Smith Creek and its feeders are designated cold water streams. Any aspen management adjacent should apply the 300 foot minimum buffer.

This compartment contains Smith Creek and Michigan River, 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:

A small portion of the compartment in the SW is designated as deer wintering area. Creating age class diversity in the aspen while keeping a component of spruce and fir is crucial to sustain grouse and hare populations in this compartment. Much of the compartment is also comprised of state game fund purchased land.

Mineral Resource and Development Concerns and/or Restrictions

No known mineral test data is available to confirm the presence of iron ore or other metallic minerals. The state does not own all mineral rights within the compartment.

Vehicle Access:

Access is overall good. The Camp 1 Road is a DNR well maintained road. There are multiple unimproved woods roads running throughout the compartment.

Survey Needs:

Several survey corners will need to be set.

Recreational Facilities and Opportunities:

None

Fire Protection:

With this compartment dominate to aspen, the fuels are not receptive to problematic fires. Historically starts have been very low in this area. Equipment access is good.

Additional Compartment Information:

The following reports from the Inventory are attached:

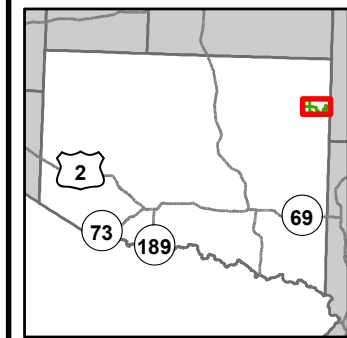
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

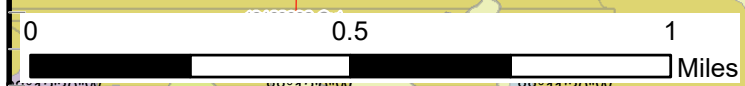
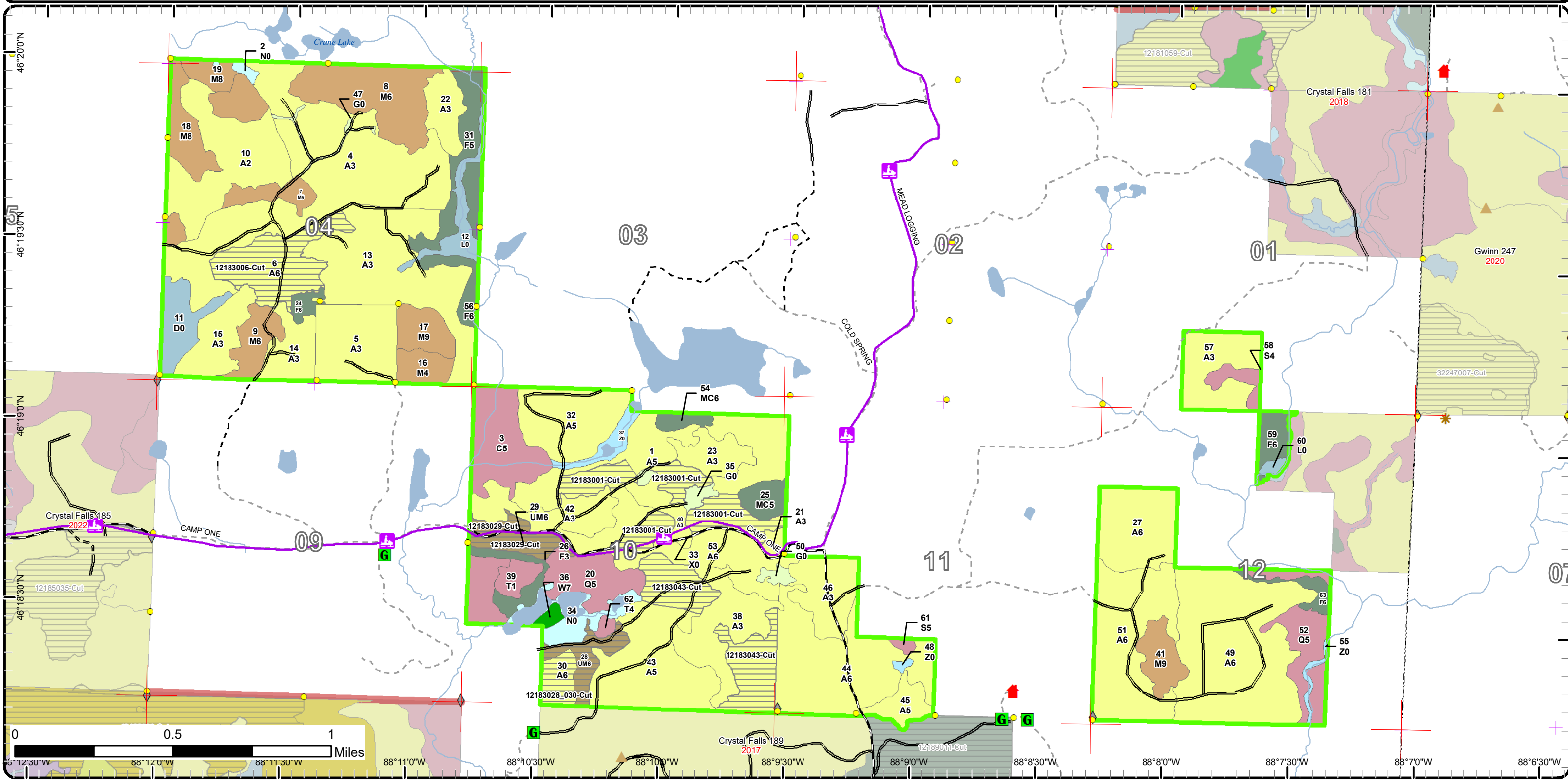
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 183
 T45N, R31W, Sec. 1, 4, 10-12
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme Reservoir
 YOE: 2021
 Acres: 1,665 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 1/27/2020
 Map Phase: Post-Review



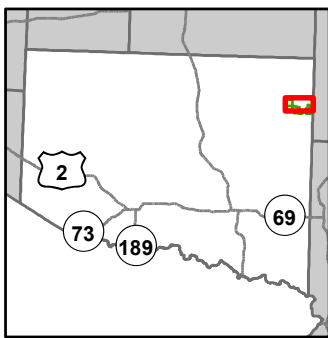
- | | | |
|--|-----------------------------------|--------------------------|
| — Miris Corners | — Drain | ■ 622 - Lowland Shrub |
| — Remonumented Section Corners | — Lake/Pond | ■ 623 - Emergent Wetland |
| ● Survey Grade Corners | — Perennial River | |
| ◆ Field Grade Corners | — Lakes and Rivers | |
| — Counties | — Compartment Boundary | |
| — DNR - Primary Forest Road | — Clearcut (w/Reserves) | |
| — DNR - Secondary Forest Road | — 411 - Northern Hardwood | |
| — Federal / State - Dirt / Gravel Road | — 413 - Aspen | |
| — Private - Dirt / Gravel Road | — 422 - Natural Pines | |
| — Snowmobile Trails | — 423 - Other Upland Conifers | |
| — Designated Snowmobile Trails | — 430 - Upland Mixed Forest | |
| ▲ Cabin | — 612 - Lowland Coniferous Forest | |
| ■ Gate | — 122 - Roads/Parking Lot | |
| | — 310 - Herbaceous Openland | |
| | — 500 - Water | |



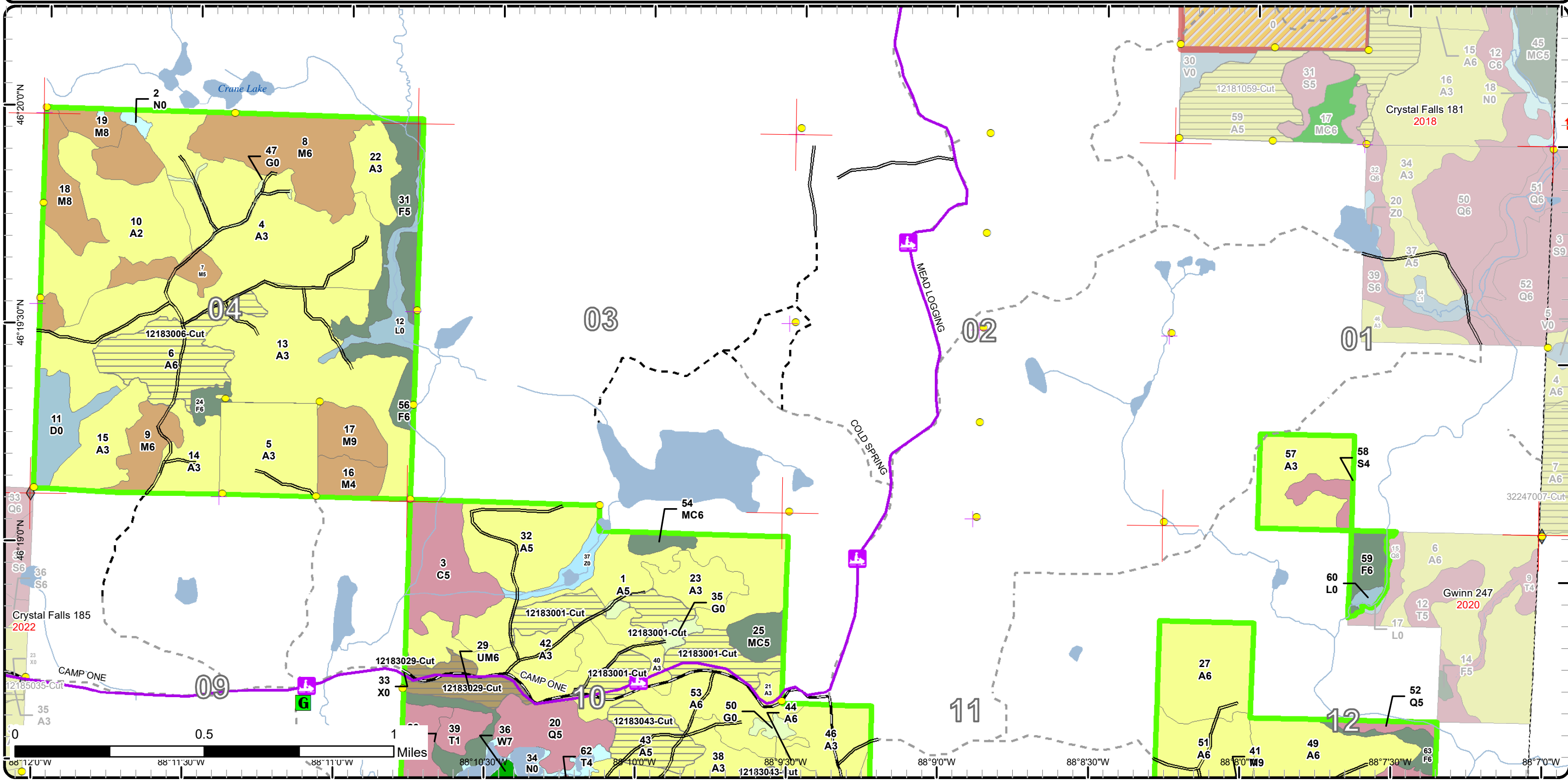
46°20'0"N 46°19'30"N 46°19'0"N 46°18'30"N 46°18'0"N
 88°12'30"W 88°12'0"W 88°11'30"W 88°11'0"W 88°10'30"W 88°10'0"W 88°9'30"W 88°9'0"W 88°8'30"W 88°8'0"W 88°7'30"W 88°7'0"W 88°6'30"W

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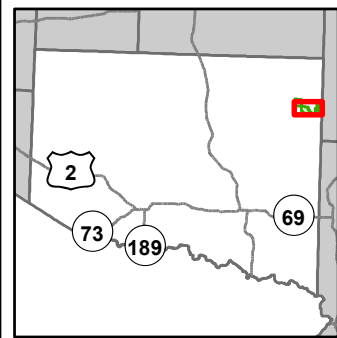


- | | |
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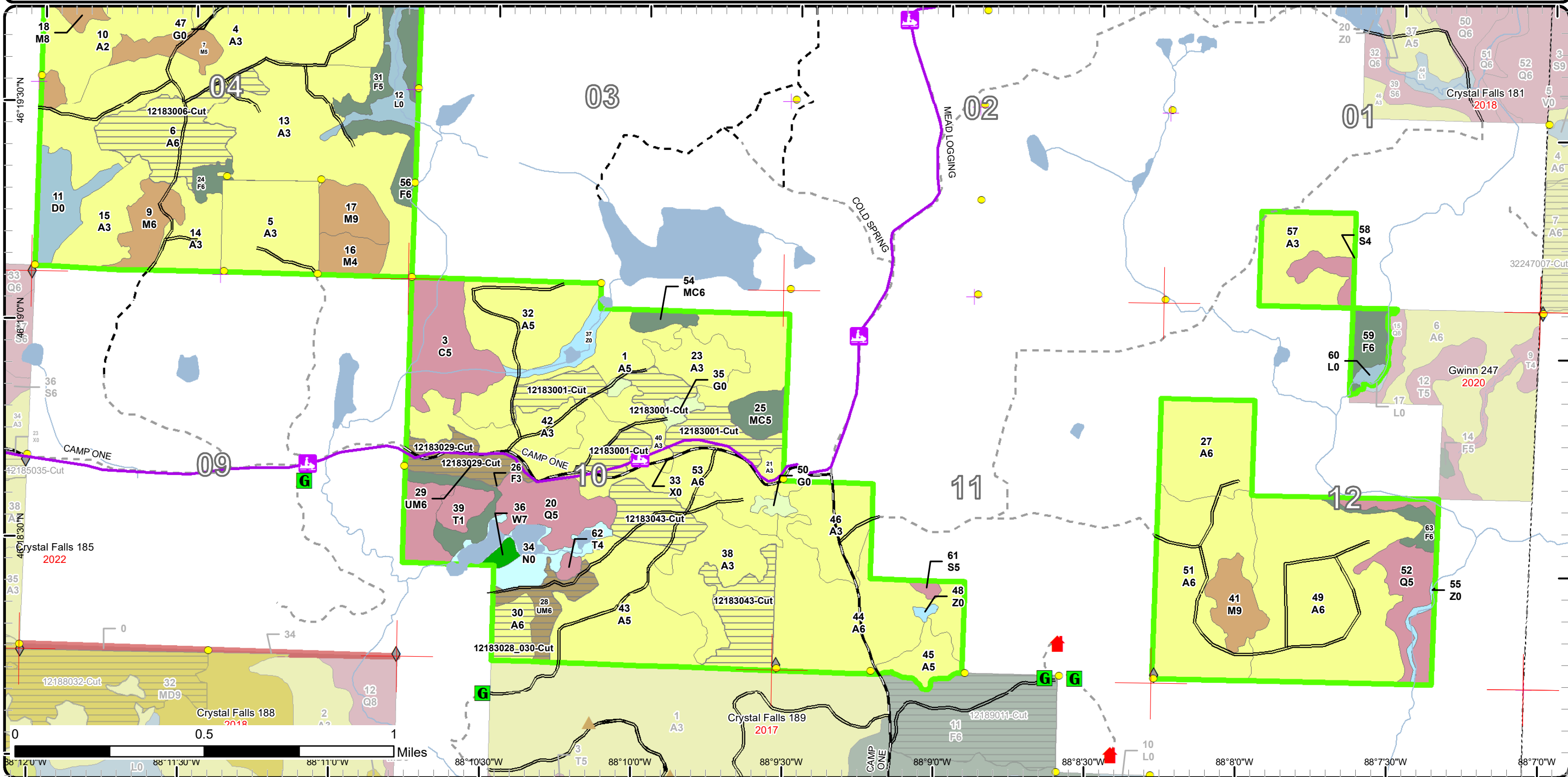


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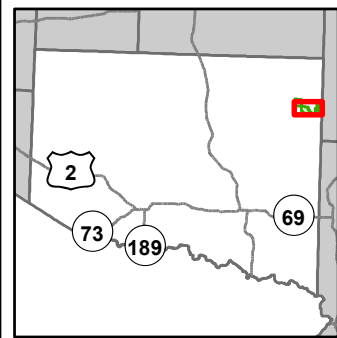


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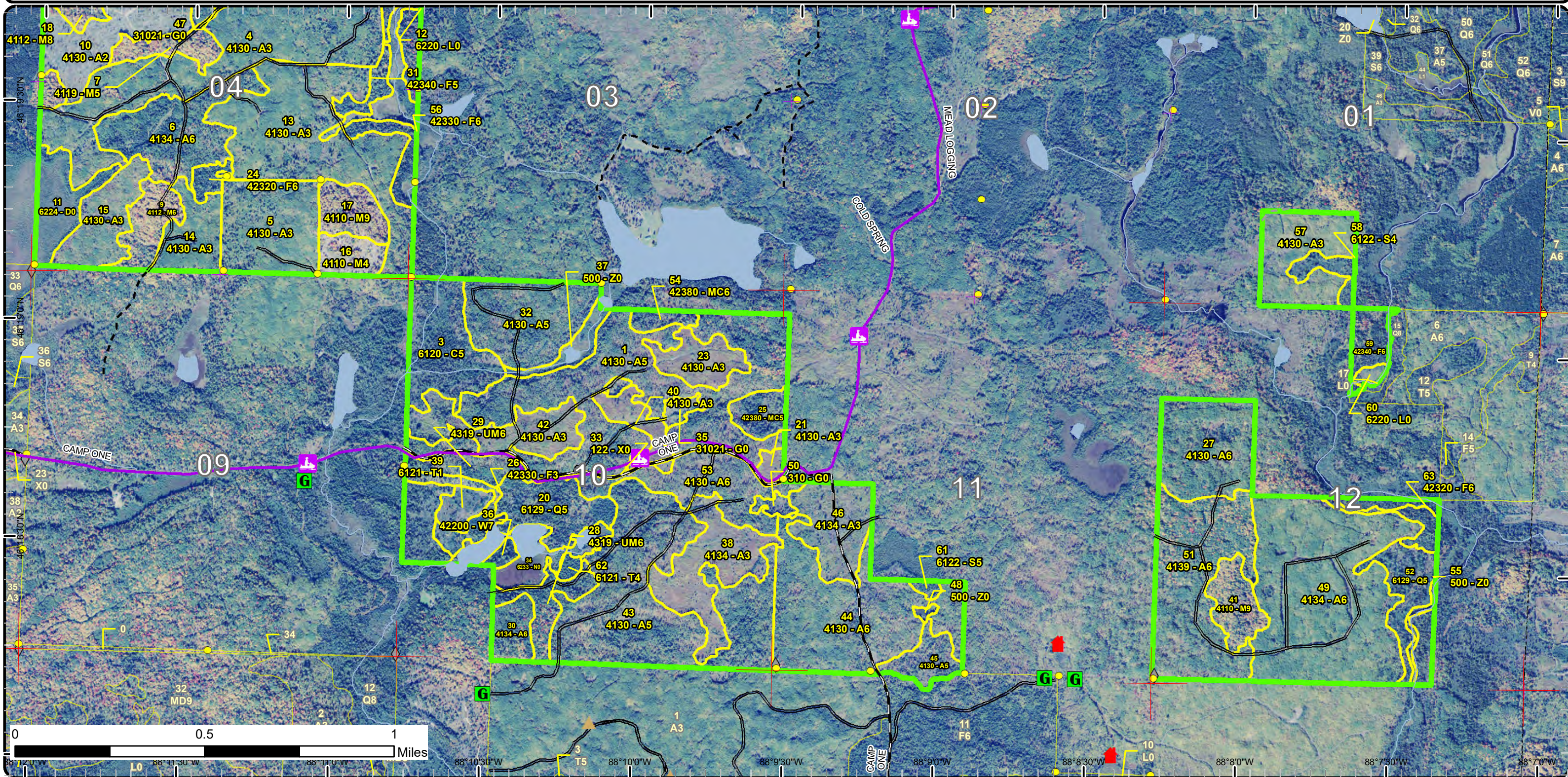


Stand Boundary Map

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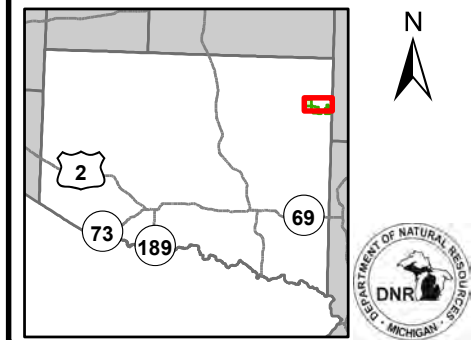


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- ### Natural Color RGB
- Red: Band_1
 - Green: Band_2
 - Blue: Band_3

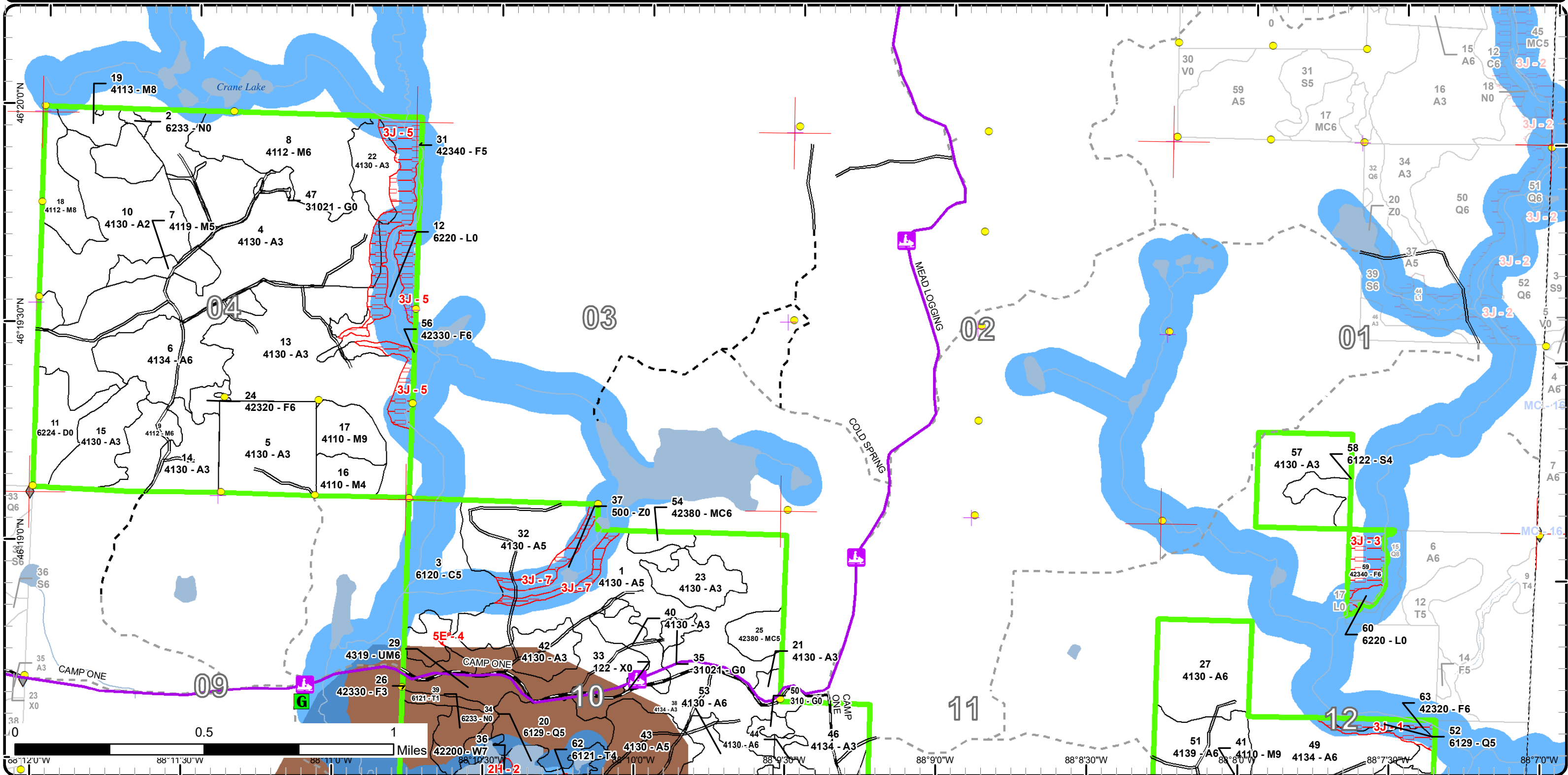


Special Conservation Areas & Site Conditions Map

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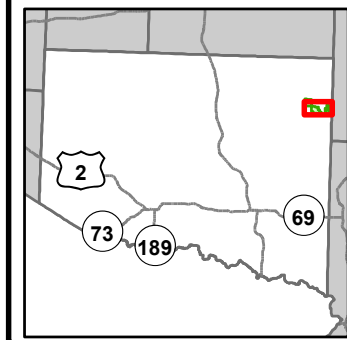


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- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

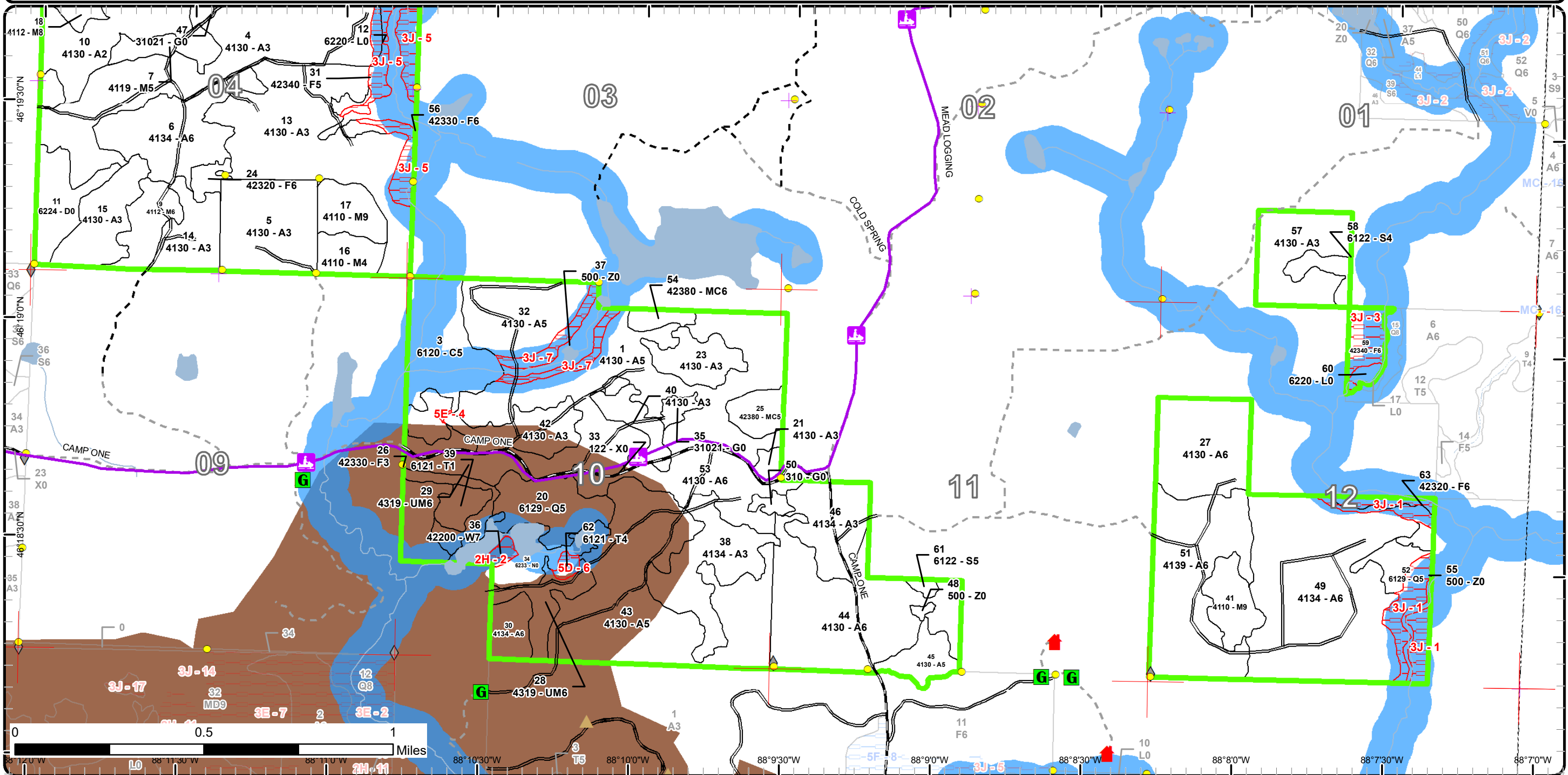


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- Compartment Boundary
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water 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	58	195	281	295	313	40	0	0	0	0	0	0	0	0	0	0	0	1182
Cedar	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	37
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	0	0	0	0	2	0	0	0	7	0	0	0	0	0	0	0	0	0	9
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	0	0	0	0	0	11	8	15	0	0	0	0	0	0	0	0	124	158
Tamarack	0	0	8	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	10
Treed Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Conifers	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	31
Upland Spruce/Fir	0	0	10	0	27	21	11	0	0	0	0	0	0	0	0	0	0	0	69
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Total	85	58	213	281	324	365	131	8	37	3	0	37	0	0	0	0	0	124	1666



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Compartment 183
Total Compartment Acres: 1,665

Acres of Harvest

Commercial Harvest - 171
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	129	0	0	0	0	0	0	0	0	129
Upland Mixed Forest	42	0	0	0	0	0	0	0	0	42
Total	171	0	0	0	0	0	0	0	0	171

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	171	0	0	0	0	0	0	0	0	171
Next Step	0	0	0	0	0	171	0	0	0	171
Total	171	0	0	0	0	171	0	0	0	342



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:

1	12183001-Cut	44.6	4130 - Aspen	Poletimber Medium	47	Unspec ified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, cherry, and maple. cut spruce fir 7" stump and larger (2 stick +). do not cut w pine, r pine, w birch or oak</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, spruce, fir, pine</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> 5/30/2019</p>											
6	12183006-Cut	40.0	4134 - Aspen, Spruce/Fir	Poletimber Well	50	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, spruce, fir, r maple, w birch and cherry. leave 1 w birch and cherry per cruise point where available. do not cut w pine, r pine</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, spruce, fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
28	12183028_030 -Cut	25.2	4319 - Mixed Upland Forest	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, spruce, fir, cherry, w birch, and r maple. leave at least 1 cherry and/or w birch per cruise plot where available. do not cut w pine, r pine, oak.</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, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
29	12183029-Cut	16.4	4319 - Mixed Upland Forest	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, spruce, fir, and r maple. leave birch, r pine, w pine.</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, spruce, fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
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43	12183043-Cut	44.7	4130 - Aspen	Poletimber Medium	44	Unspecified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription cut merchantable (1 stick and larger) aspen, spruce, fir, r maple, w birch, and cherry. leave 1 cherry and/or w birch per cruise point where available. do not cut r pine, w pine or oak

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

Acceptable Regen: aspen, spruce, fir

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 170.9



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2H	3J	5D	5E
1182	1166	0	16	Aspen		16		0
37	37	0	0	Cedar				
11	11	0	0	Herbaceous Openland				
67	47	0	21	Lowland Conifers		21		
16	16	0	0	Lowland Shrub				
9	9	0	0	Lowland Spruce/Fir				
23	23	0	0	Marsh				
158	158	0	0	Northern Hardwood				
10	8	0	2	Tamarack			2	
20	20	0	0	Treed Bog				
15	15	0	0	Upland Conifers				
31	31	0	0	Upland Mixed Forest				
69	21	0	48	Upland Spruce/Fir		48		
3	3	0	0	Urban				
12	12	0	0	Water		0		
3	0	0	3	White Pine	3			
1,665	1,576		89	Total Forested Acres	3	84	2	0
	95%		5%	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)	25	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 183
Year of Entry: 2021



3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: after cold water stream buffer, remaining area too small							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: BMP buffer							
6	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	5E: Long-Term Retention	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	4130 - Aspen	Poletimber Medium	111.5	47	Unspecified	N/A	fairly wide open aspen poletimber stand. scattered 10" aspen. slight component of r pine/w pine 16 - 20" dbh. NE corner has higher stocking of maple and heavier spruce/fir understory.																																														
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2	6233 - Wet Meadow	Nonstocked	2.0		Unspecified	No	vernal area - swamp grass. seasonally ponded and during wet years. ringed by spruce/fir/w pine.																																														
3	6120 - Lowland Cedar	Poletimber Medium	37.2	102	51-80	N/A	areas of dense, high quality cedar. in canopy openings and in areas of low stocking tag alder is predominate with fir saplings. N end has lower tree stocking and is heavier to tag alder. Smith Creek feeder stream flows through stand																																														
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4	4130 - Aspen	Sapling Well	137.2	24	Immature	N/A	just moving into poletimber size class, scattered aspen 5 - 6" dbh.																																														
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6	4134 - Aspen, Spruce/Fir	Poletimber Well	40.0	50	Unspecified	N/A	scattered w pine 24" + dbh. sawtimber sized w spruce is dead from past SBW, scattered cherry. small conifer inclusion in W center of stand - open grown spruce/fir. N end of stand has strip of windthrow from 2016.																																														
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7	4119 - Mixed Northern Hardwoods	Poletimber Medium	14.7	73	51-80	N/A	very scattered b cherry component. occasional old windthrow patches from 2016																																														
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8	4112 - Maple, Beech, Cherry Association	Poletimber Well	48.6	73	51-80	N/A	h maple sawtimber component 14 - 18" dbh unevenly throughout the stand. good h maple regeneration throughout. in NE to N central very well stocked h maple saplings (M3). fairly dense aspen regeneration 8 - 10' tall along W side of stand																												
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9	4112 - Maple, Beech, Cherry Association	Poletimber Well	15.8	73	81-110	N/A	lower quality hardwoods - short heights. sawtimber is mainly "wolf" trees																												
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10	4130 - Aspen	Sapling Medium	58.3	6	Immature	N/A	areas of low to no aspen regeneration - semi open with r maple stump sprouts. majority of aspen saplings has scars on entire length of the boles - likely from sun scald. scattered small inclusions of 2" dbh aspen.																												
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12	6220 - Alder/willow	Nonstocked	13.7	0	Unspecified	No	Smith Creek and associated lowlands - old open beaver meadows, alder with scattered lowland conifers																												
13	4130 - Aspen	Sapling Well	84.0	25	Immature	N/A	scattered aspen is just moving into poletimber size class 5 - 6"																												
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15	4130 - Aspen	Sapling Well	23.8	16	Immature	N/A	higher stocking of fir along W side - transition/buffer to bog. previous cut left residual maple, E end of stand has a h maple cull tree component 12-20" dbh. scattered r pine 18 - 20" dbh.																												
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16	4110 - Sugar Maple Association	Poletimber Poor	11.1	54	1-50	N/A	shelterwood cut in past. areas of semi open to open. steep hills																												
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18	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	29.6	73	51-80	N/A	h maple sawtimber component ranges from 12 - 20", fair - good quality																																	
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20	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	39.0	56	1-50	N/A	very wet variable stand. Western most portion heavier to b spruce.																																	
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24	42320 - Upland Spruce	Poletimber Well	4.7	44	Unspecified	N/A	very dense, conifer pocket. open grown trees - very limby																																				
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25	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	10.0	72	Unspecified	N/A	small inclusions of aspen regeneration 10 - 20' tall from 2006 windthrow. very scattered r pine component. small pothole b spruce/tamarack swamp in N center of stand																																				
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26	42330 - Upland Fir	Sapling Well	9.9	13	Immature	N/A	extremely dense fir thicket with associated aspen. stand on small high ground ridge																																				
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30	4134 - Aspen, Spruce/Fir	Poletimber Well	10.9	43	81-110	N/A	very SW corner has small M6 inclusion (mainly r maple with scattered h maple). very scattered w spruce 12 - 14" dbh throughout, much of it standing dead																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	42340 - Upland Spruce/Fir	Poletimber Medium	27.4	36	51-80	N/A	stand acting as BMP buffer adjacent to Smith Creek,
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		20	Pole	6	36	Red Maple	
White Pine		10	XLog	20		Balsam Fir	
Paper Birch		10	Sapling/Pole	4		Tag Alder	
Tamarack		10	XLog	18			
White Spruce		50	Pole	7	36		
32	4130 - Aspen	Poletimber Medium	41.8	44	1-50	N/A	small w pine/scattered j pine pine inclusion. rolling hills, access across old beaver dam
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole	7	44	White Spruce	
						Balsam Fir	
33	122 - Road/Parking Lot	Nonstocked	3.4	0	Unspecified	No	Camp 1 Rd
34	6233 - Wet Meadow	Nonstocked	21.1		Unspecified	No	chain of ponds with associated wet bog/meadow.
35	31021 - Cool Season Grass	Nonstocked	5.0	0	Unspecified	No	semi open treed opening. spruce/fir, w pine, growing into opening. scattered cherry saplings.
36	42200 - Natural White Pine	Sawtimber Poor	2.7	81	1-50	N/A	large diameter w pine with very dense fir saplings/small poletimber
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		90	XLog	24	81	Balsam Fir	
Balsam Fir		10	Pole/Sapling	6			
37	500 - Water	Nonstocked	8.1		51-80	No	series of old beaver ponds/meadows. creek runs through stand
38	4134 - Aspen, Spruce/Fir	Sapling Well	36.8	13	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Sapling	1	13	Hazelnut (Beaked)	
Balsam Fir		10	Pole/Sapling	6			
White Spruce		10	Pole/Sapling	6			
39	6121 - Tamarack	Sapling Poor	7.6	13	Immature	N/A	heavy tag alder with tamarack saplings. scattered slight cedar 10 - 12" dbh component
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		50	Sapling	1	13	Tag Alder	
Balsam Fir		45	Sapling	1			



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40	4130 - Aspen	Sapling Well	11.9	13	Immature	N/A	scattered w pine																																	
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41	4110 - Sugar Maple Association	Sawtimber Well	15.3	76	81-110	N/A	decent - fair quality h maple. r maple shows defects - poor form. small pockets of h maple saplings . trace component of w birch 8 - 12" dbh in W part of stand																																	
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46	4134 - Aspen, Spruce/Fir	Sapling Well	27.7	14	Immature	N/A	very scattered r pine 16 - 18" dbh																																	
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47	31021 - Cool Season Grass	Nonstocked	2.9	0	Unspecified	No	old hunter walking trail																																	



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48	500 - Water	Nonstocked	1.1	0	Unspecified	No	small pond																															
49	4134 - Aspen, Spruce/Fir	Poletimber Well	111.3	30	Immature	N/A	aspen just moving into poletimber size class. scattered patches of spruce/fir																															
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50	310 - Herbaceous Openland	Nonstocked	3.0	0	Unspecified	No	old wildlife opening. growing in to spruce, fir. last record of being maintained 1980																															
51	4139 - Aspen, Mixed Deciduous	Poletimber Well	67.2	36	81-110	N/A	aspen with maple component. areas are heavier stocked to aspen moving to sections of the stand well stocked with aspen/maple mix. maple sapling understory for most part is throughout the stand																															
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52	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	28.3	59	Unspecified	N/A	S end of stand is more a transitional type - balm, scattered w spruce components. As stand progresses north, tamarack, b spruce and cedar are predominate.																															
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53	4130 - Aspen	Poletimber Well	32.5	46	Unspecified	N/A	fairly open stand with spruce/fir pockets. short, steep ridges throughout.																															
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Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																			
54	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	5.2	72	81-110	N/A	scattered w pine, r pine 16 - 20" dbh. w spruce has mainly fallen out of stand																															
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55	500 - Water	Nonstocked	2.5		Unspecified	No	Michigan River																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
56	42330 - Upland Fir	Poletimber Well	9.3	44	111-140	N/A	scattered large w spruce 18 - 22" dbh. stand acting as BMP buffer to Smith Creek.																																					
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57	4130 - Aspen	Sapling Well	32.7	18	Immature	N/A																																						
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58	6122 - Black Spruce	Poletimber Poor	7.1	74	1-50	N/A	W end is higher stocked to tamarack/b spruce saplings resulted from windthrow from years past. As stand progresses E, heavy tag alder understory is predominate.																																					
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59	42340 - Upland Spruce/Fir	Poletimber Well	10.6	56	81-110	N/A	widely scattered w pine 20 - 24" dbh. small inclusions of aspen regeneration from 2005 windthrow. NW corner and adjacent to Mitchigan River is lower with tag alder understory																																					
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60	6220 - Alder/willow	Nonstocked	2.2	0	Unspecified	No	Mitchigan River and adjacent riparian corridor. high occurrence of windthrow over river																																					
61	6122 - Black Spruce	Poletimber Medium	1.9	31	51-80	N/A	inclusion of slightly higher ground ridge heavier to b spruce																																					
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62	6121 - Tamarack	Poletimber Poor	2.2	53	Unspecified	N/A	low site index, very wet - cattails/abrader tea. fairly poor tree form - low limbs, short boles																																					
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63	42320 - Upland Spruce	Poletimber Well	6.6	45	111-140	N/A	scattered w spruce and tamarack 12 - 14" dbh.																																					
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