



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12005

Entry Year 2022

Acreage: 1,291

County Dickinson

Management Area: Ralph Ground Moraine

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**Revision Date:** 2020-10-19

**Stand Examiner:** Ed Rice

**Legal Description:**

T44N R29W section 7, 19

T44N R30W Sections 12, 13, 23, 24

**Identified Planning Goals:**

On sites where pine is regenerating, encourage the pine succession. Harvest aspen for regulated age distribution. Manage oak stands with wildlife considerations as primary. Protect drainages for water quality and wildlife habitat.

**Soil and topography:**

The topography is flat to rolling sand. The soils are suited for a mix of hardwoods, oak, aspen and pine. Large depressions are scattered throughout the compartment.

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

The compartment is contiguous. Private lands border the compartment and along the south, may or may not impact access.

**Unique Natural Features:**

None identified

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

None identified

**Special Management Designations or Considerations:**

Winter deer range

**Watershed and Fisheries Considerations:**

This compartment contains Twomile Creek, Weber Creek and the Main Branch of the Ford River. Twomile Creek and Weber Creek are designated Type 1 trout streams less than 50' width and both serve as tributaries to the Main Branch of the Ford River. 300' buffers are recommended for Twomile Creek and Weber 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. The Main Branch of the Ford River is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the Main Branch of the Ford River 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:**

This compartment contains DWC, between the historic Three Lakes, Channing and Floodwood deeryards, Currently combined into the Iron-Floodwood DWC. The oak and aspen components are extremely important to deer, bear, and grouse to name of few of the wildlife species benefitting from its proper management.

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

Surface sediments consist of end moraines of coarse-textured glacial till. The glacial drift thickness varies between 10 and 200 feet. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not an economic use for the Michigamme. Iron mines are located approximately fifteen miles to the southwest. A gravel pit is indicated one mile to the north and another one mile to the west. There appears to be good gravel potential in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Overall good access

**Survey Needs:**

Several corners may need to be set

**Recreational Facilities and Opportunities:**

**Fire Protection:**

Through a drier area, the fuels are dominated by aspen. Low to moderate intensity surface fire could carry. Containment of fires in the compartment should not be problematic.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

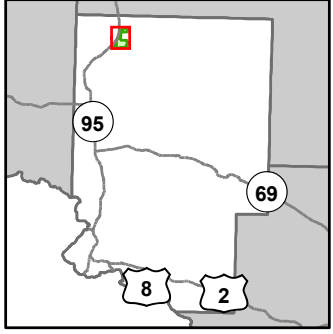
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

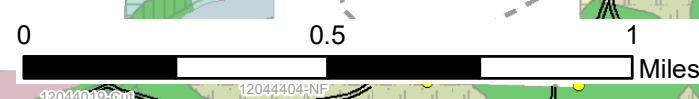
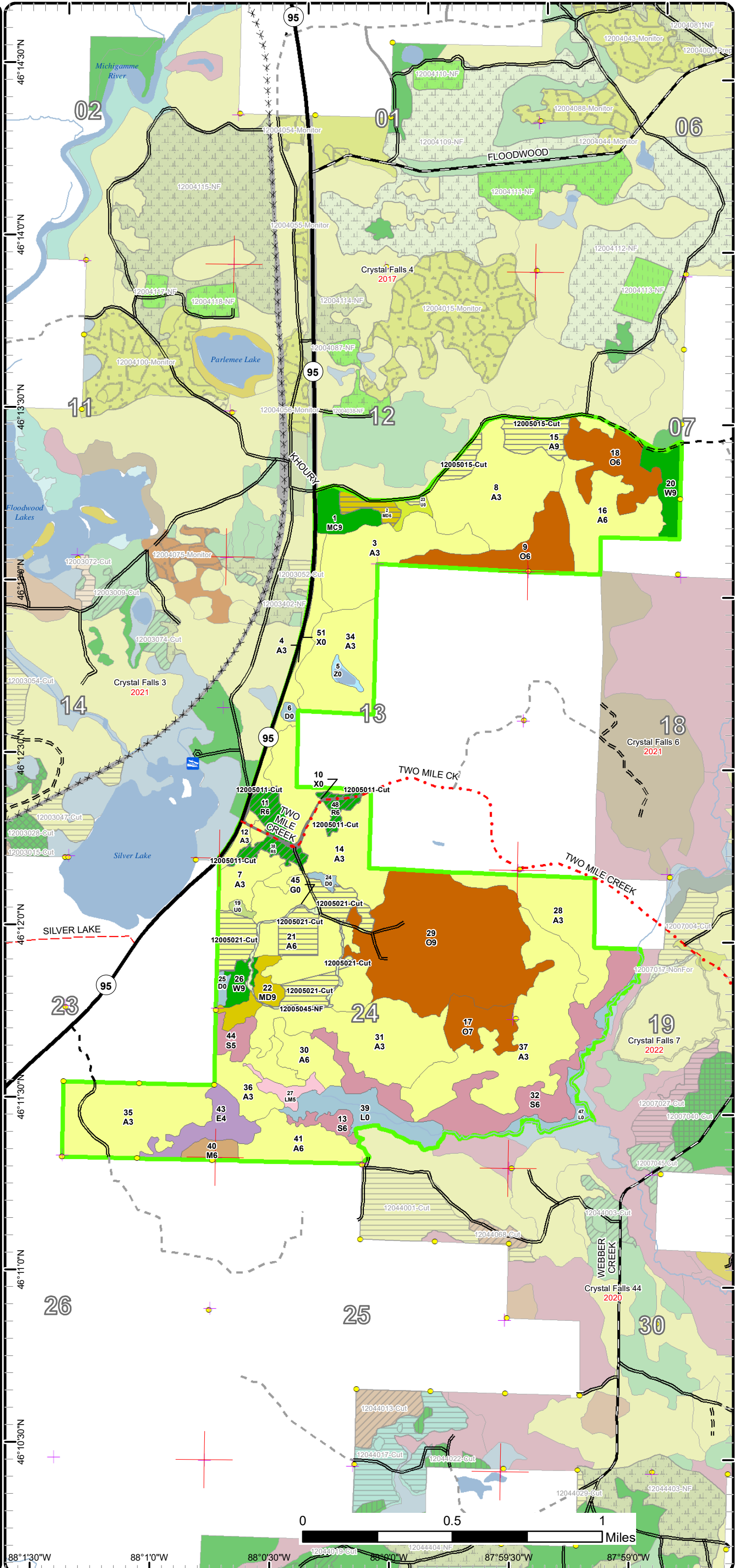
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 5  
 T44N, R30W, Sec. 12, 13, 23, 24  
 T44N, R29W, Sec. 7, 19  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground Moraine  
 YOE: 2022  
 Acres: 1290.7 GIS Calculated  
 Examiner: Ed Rice  
 Map Revised: 1/22/2021  
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- × × Abandoned Railroads
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

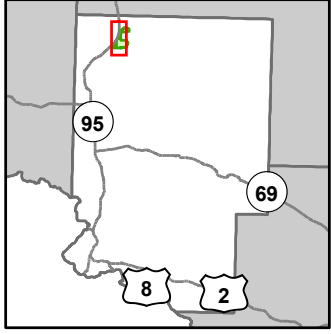


88°1'30"W 88°1'0"W 88°0'30"W 88°0'0"W 87°59'30"W 87°59'0"W

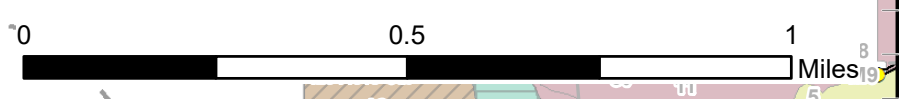
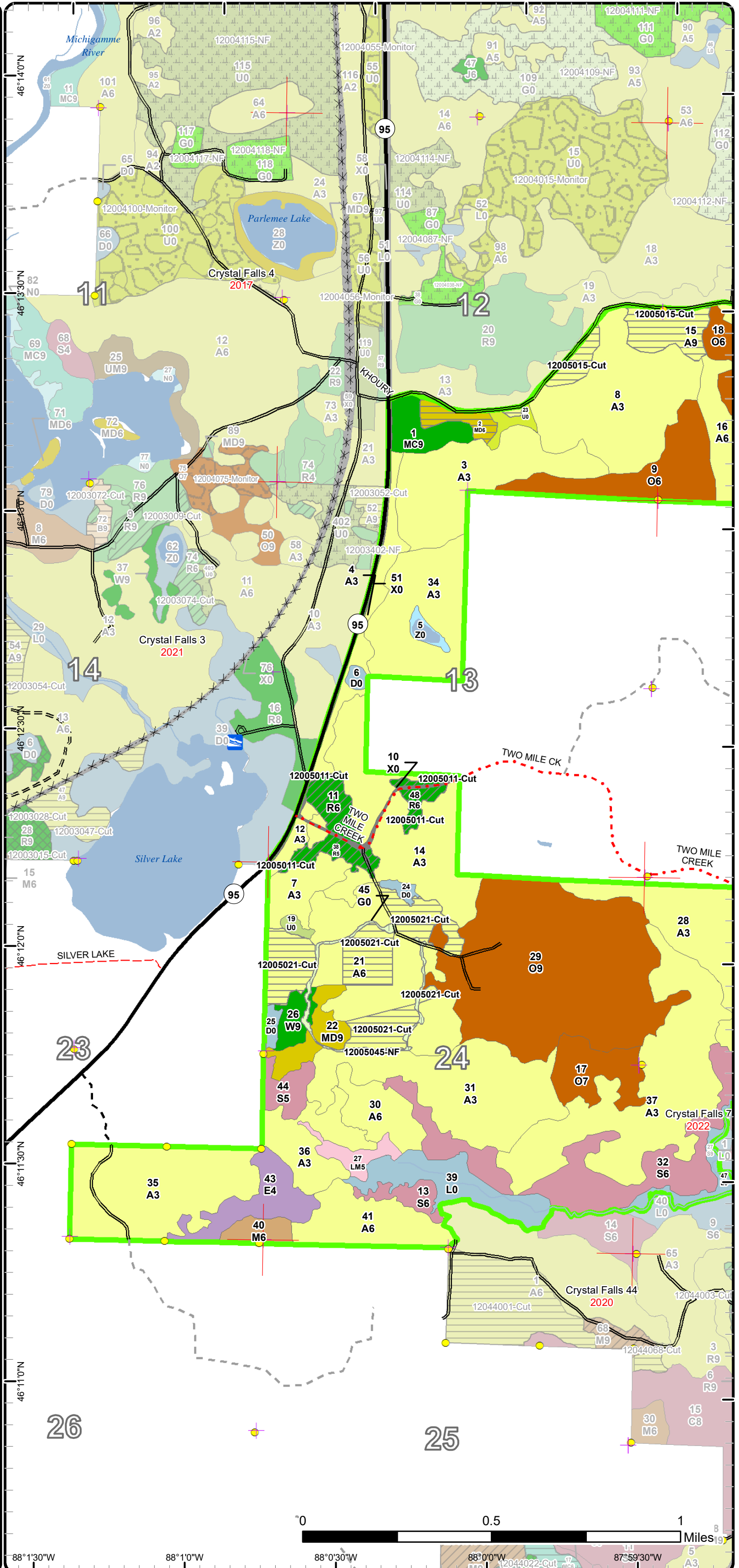


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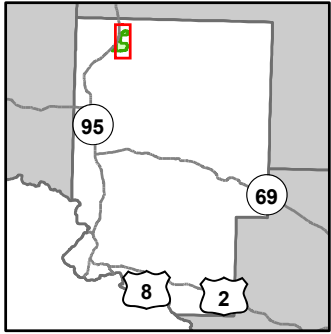
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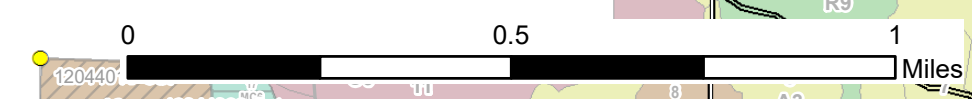
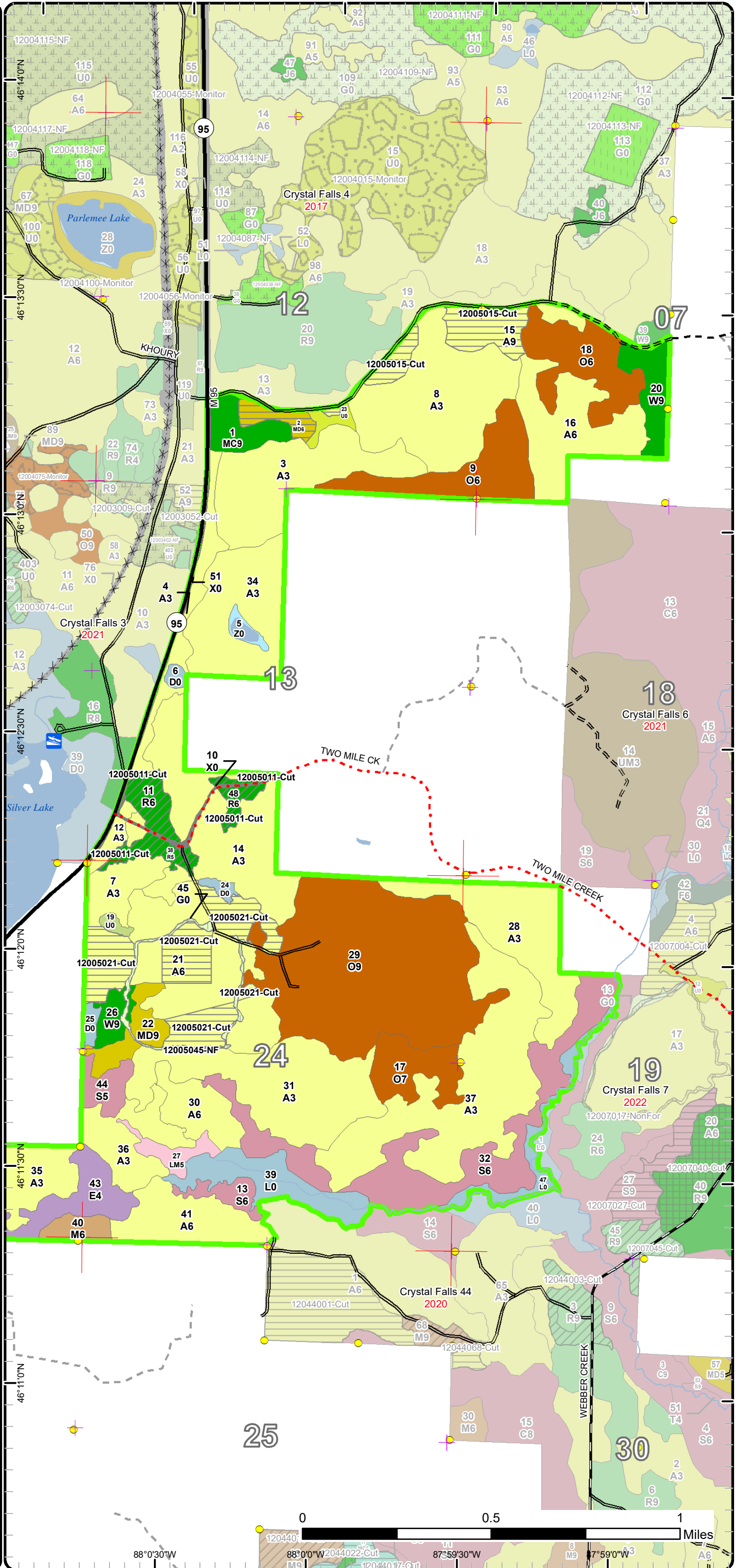
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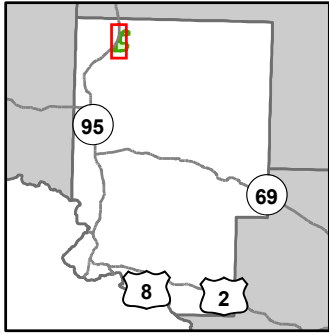




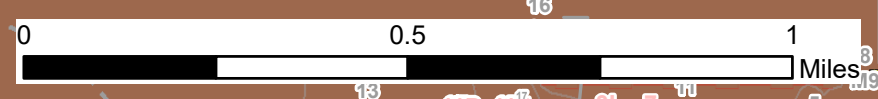
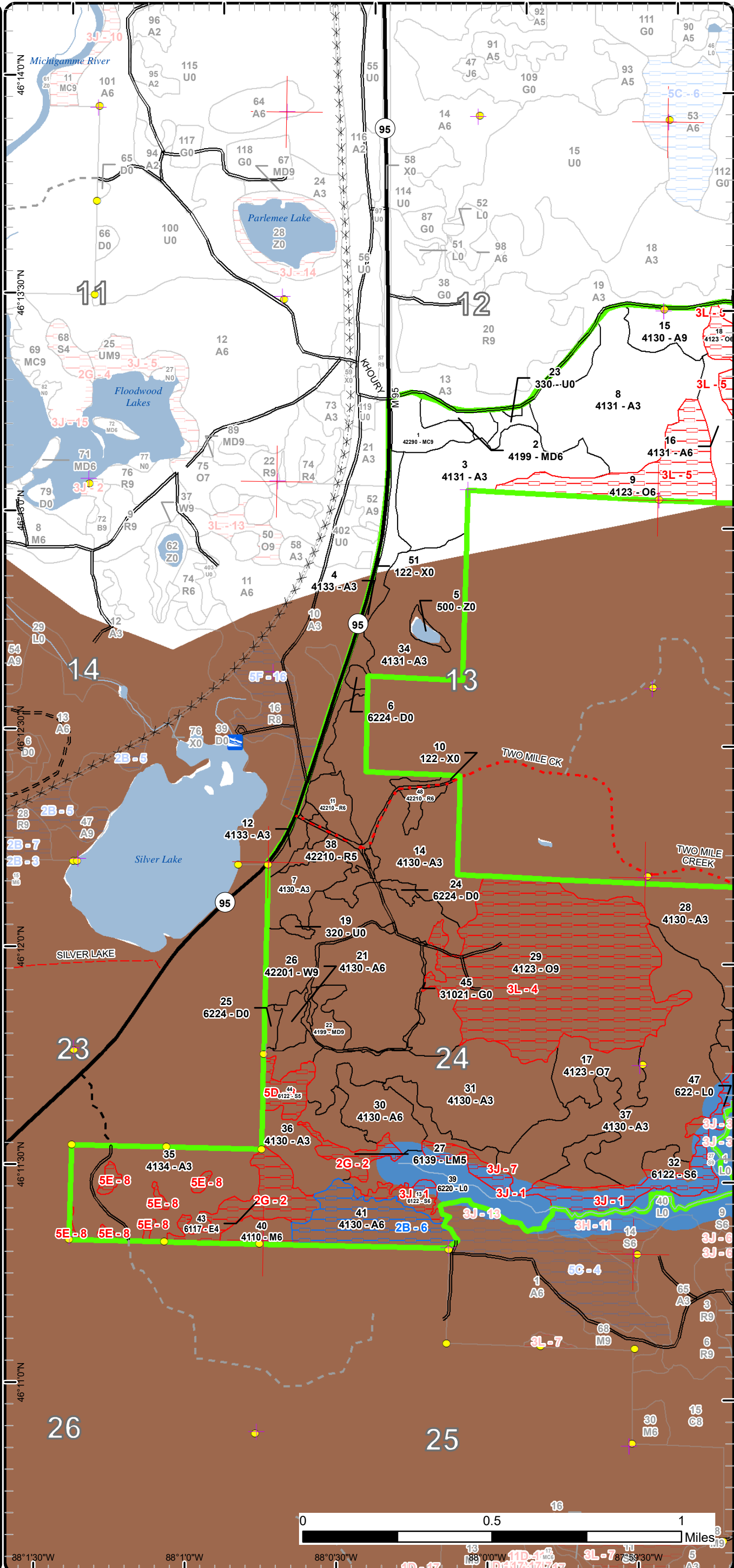


# Special Conservation Areas

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- Boating Access Site
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

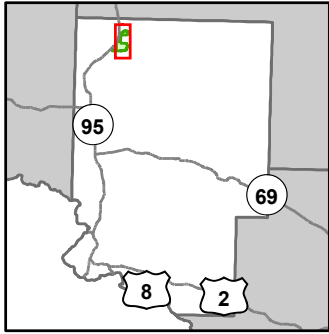


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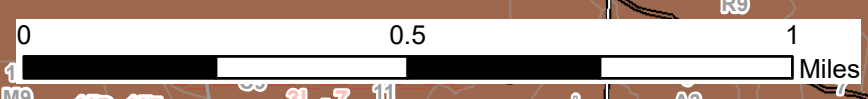
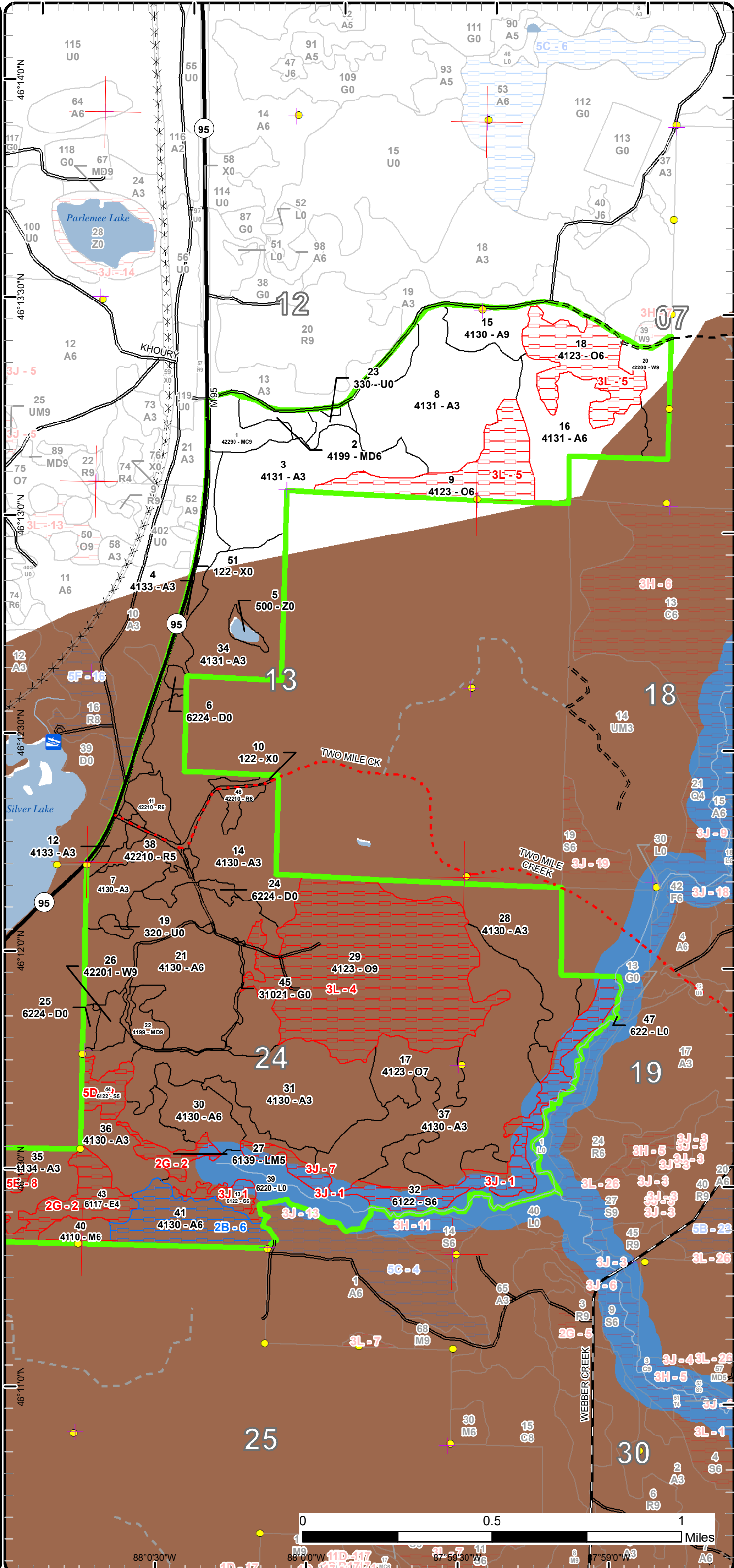


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88°0'30"W 11D-117 87°59'30"W 46°11'00"N 46°12'00"N 46°13'00"N 46°14'00"N



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	209	68	301	64	97	30	0	23	0	0	0	0	0	0	0	0	0	791
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Deciduous	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
Lowland Mixed Forest	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	0	0	75	9	0	0	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Oak	0	0	0	0	0	0	0	0	232	0	0	0	0	0	0	0	0	0	231
Red Pine	0	0	0	0	0	0	7	15	0	0	0	0	0	0	0	0	0	0	22
Treed Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	7	16	0	0	0	0	0	0	0	23
<b>Total</b>	<b>70</b>	<b>209</b>	<b>68</b>	<b>301</b>	<b>64</b>	<b>97</b>	<b>112</b>	<b>72</b>	<b>255</b>	<b>7</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1289</b>





## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 5  
Total Compartment Acres: 1,291

Commercial Harvest - 101  
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	71	0	0	0	0	0	0	0	0	71
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	22	0	0	0	22
<b>Total</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>101</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	101	0	0	0	0	0	0	5	0	106
Next Step	0	0	0	0	0	0	79	0	5	83
<b>Total</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>10</b>	<b>189</b>





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:**

<b>2</b>	<b>12005002-Cut</b>	7.2	4199 - Other Mixed Upland Deciduous	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut merchantable aspen, spruce, fir, red maple, w birch, cherry. leave at least one w birch and/or cherry per cruise point where available. Do not cut oak, r pine, or w pine. Protect sub-merchantable oak and conifers present.</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> Mix of oak, pine and aspen.</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 /2021</p>											

<b>11</b>	<b>12005011-Cut</b>	22.3	42210 - Natural Red Pine	Poletimber Well	65	111- 140	Harvest	Crown Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> thin r pine to 100-110 BA. do not cut w pine unless absolutely necessary for equipment access. do not cut oak</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> 10/1 /2021</p>											

<b>15</b>	<b>12005015-Cut</b>	22.7	4130 - Aspen	Sawtimber Well	71	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut merchantable aspen, spruce, fir, red maple, w birch, cherry. Leave at least one w birch and/or cherry per cruise point where available.</p> <p><u>Specs:</u> Do not cut oak, r pine, or w pine. Eastern most block has very dense understory of maple - protect from damage as much as possible. Also protect sub-merchantable conifers and oak present.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, pine and oak.</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 /2021</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21 12005021-Cut	48.6	4130 - Aspen	Poletimber Well	46	Unspec ified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen, spruce, fir, rmaple, w birch, cherry. leave at least one w birch and/or cherry per cruise point where available. Do</p> <p><u>Specs:</u> not cut oak, r pine, or w pine. protect submerchantable conifers present</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> 5 /6 /2020</p>										
45 12005045-NF	4.9	31021 - Cool Season Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass		No
<p><u>Prescription</u> mechanical site prep, seed, mow</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> cool season grass</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 /2021</p>										

**Total Treatment** 105.7  
**Acreage Proposed:**





Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions						
		With Condition	Not Available		2B	2G	3J	3L	5D	5E	
791	755	30	6	Aspen	30						6
5	5	0	0	Herbaceous Openland							
4	4	0	0	Low-Density Trees							
21	0	0	21	Lowland Deciduous		21					
7	0	0	7	Lowland Mixed Forest		7					
39	39	0	0	Lowland Shrub							
84	26	0	58	Lowland Spruce/Fir			49		9		
20	20	0	0	Mixed Upland Deciduous							
13	13	0	0	Natural Mixed Pines							
7	7	0	0	Northern Hardwood							
231	21	0	211	Oak				211			
22	22	0	0	Red Pine							
7	7	0	0	Treed Bog							
2	2	0	0	Upland Shrub							
10	10	0	0	Urban							
3	3	0	0	Water							
23	23	0	0	White Pine							
1,291	957	30	304	Total Forested Acres	30	29	49	211	9		6
	74%	2%	24%	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)	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Ed Rice : Examiner

Compartment: 5  
Year of Entry: 2022



2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> low SI							
4	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	142	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LF from 2012 YOE. stand is an extremely high wildlife value oak stand in N Dickinson County							
5	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	68	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> LF from 2012 YOE inventory							
6	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	30	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> age class diversity due to adjacent compartment stand 1 being scheduled for harvest							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





8	Unavailable	5E: Long-Term Retention	6	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

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**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	42290 - Natural Mixed Pine	Sawtimber Well	12.8	91	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		15	Log/Pole	11		Red Maple	Low	10 - 20 feet	Sapling
White Pine		45	Log	18	91	Quaking Aspen	Medium	< 5 feet	Sapling
Red Pine		40	Log	18		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
2	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.2	61	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Pole/Log/Sap	8		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Red Oak		30	Log/Pole/Sap	10					
Quaking Aspen		35	Pole/Log	8	61				
White Pine		5	XLog	18					
Paper Birch		10	Pole/Log	8					
3	4131 - Aspen, Oak	Sapling Well	53.1	25	Unspecified	N/A	residual overstory oak was left with pine of all sizes when cut.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		20	Log	12		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		65	Sapling/Pole	3	25	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
White Pine		10	Pole/Log	10					
Red Pine		5	Pole	8					
4	4133 - Aspen, Mixed Pine	Sapling Well	16.6	8	Immature	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		5	Pole/Log	10		Red Maple	Low	Variable	Tall Shrub
Quaking Aspen		60	Sapling	1	8	Balsam Fir	Low	Variable	Tall Shrub
White Pine		25	Log	16	86	White Spruce	Low	Variable	Tall Shrub
Red Pine		10	Log	16		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
5	500 - Water	Nonstocked	3.4		Unspecified	No	bog pond, edged with leatherleaf		
6	6224 - Treed Bog	Nonstocked	1.9		Unspecified	No	small leatherleaf bog with stunted b spruce. seasonally ponded		
7	4130 - Aspen	Sapling Well	17.3	24	Unspecified	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		85	Sapling/Pole	4	24	Red Maple	Low	5 - 10 feet	Sapling
White Pine		5	Pole	9		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Red Pine		10	Pole	9					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
8	4131 - Aspen, Oak	Sapling Well	69.6	26	Immature	N/A	aspen and mixed species removed from stand in 1995. oak left as residual																																														
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10	122 - Road/Parking Lot	Nonstocked	3.0	0	Unspecified	No	Fire Tower Rd																																														
11	42210 - Natural Red Pine	Poletimber Well	9.3	65	111-140	N/A																																															
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13	6122 - Black Spruce	Poletimber Well	7.1	58	Unspecified	N/A	scattered low ground aspen, areas of smaller diameter trees. tag alder																																														
14	4130 - Aspen	Sapling Well	65.0	24	Unspecified	N/A																																															
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15	4130 - Aspen	Sawtimber Well	22.7	71	Unspecified	N/A	west blocks have slightly smaller average dbh on the aspen (8-9"). Eastern most block is noticeably larger average dbh (12"). Eastern area also has very dense sapling under story of r maple with occasional oak.																																																			
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17	4123 - Red Oak	Sawtimber Poor	20.5	71	1-50	N/A																																																				
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19	320 - Upland Shrub	Nonstocked	1.9		Unspecified	No	semi open brush/trees with small wet/low area																																																			
20	42200 - Natural White Pine	Sawtimber Well	15.8	91	51-80	N/A																																																				
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<b>22</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.7	66	81-110	N/A	stand was estimated, should be field verified																																																													
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<b>23</b>	330 - Low-Density Trees	Nonstocked	3.8	0	Unspecified	429 - Mixed Upland Conifers	Opening growing in to cherry and pine.																																																													
<b>24</b>	6224 - Treed Bog	Nonstocked	2.1	0	Unspecified	No																																																														
<b>25</b>	6224 - Treed Bog	Nonstocked	2.6		Unspecified	No	leatherleaf bog with stunted b spruce, tamarack																																																													
<b>26</b>	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	6.9	81	81-110	N/A	stand was estimated, should be field verified																																																													
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<b>27</b>	6139 - Mixed Lowland Forest	Poletimber Medium	7.4	61	51-80	N/A	very wet																																																													
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<b>28</b>	4130 - Aspen	Sapling Well	47.5	29	Unspecified	N/A																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>29</b>	4123 - Red Oak	Sawtimber Well	142.2	76	111-140	N/A	stand is a mix of n hardwoods (mainly maple and y birch) with hemlock inclusions. much of the stand has high stocking of oak. Oak is in good shape, no evidence whatsoever of decline or loss of vigor.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		10	Pole	7		Balsam Fir		
Red Maple		10	Pole	7		White Spruce		
Red Oak		65	Log/Pole	11	76	Red Oak		
Paper Birch		5	Pole	8				
Quaking Aspen		5	Log/Pole	11				
Hemlock		5	Log	14				
<b>30</b>	4130 - Aspen	Poletimber Well	18.4	35	Unspecified	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Sapling/Pole	4		Balsam Fir		
Quaking Aspen		95	Pole/Sapling	5	35			
<b>31</b>	4130 - Aspen	Sapling Well	68.3	19	Immature	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		5	Log/Pole	10		Balsam Fir		
Quaking Aspen		80	Sapling	2	19	White Spruce		
Balsam Fir		5	Sapling	4				
White Pine		5	Pole/Log	11				
Red Pine		5	Pole/Log	11				
<b>32</b>	6122 - Black Spruce	Poletimber Well	68.0	56	Unspecified	N/A	center of stand is slightly different species composition	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		5	Pole	6		Tag Alder		
Black Spruce		75	Pole	6	56			
Balsam Poplar		10	Log	11				
Tamarack		10	Pole	7				
<b>34</b>	4131 - Aspen, Oak	Sapling Well	47.6	25	Unspecified	N/A	residual overstory oak was left with pine of all sizes when cut in the past. stand just starting to move into poletimber size class	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		20	Log	12		Red Maple		
Quaking Aspen		65	Sapling/Pole	4	25	Hazelnut (Beaked)		
White Pine		10	Pole/Log	10				
Red Pine		5	Pole	8				





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>35</b>	4134 - Aspen, Spruce/Fir	Sapling Well	67.4	8	Unspecified	N/A																																					
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<b>37</b>	4130 - Aspen	Sapling Well	94.3	7	Immature	N/A																																					
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<b>38</b>	42210 - Natural Red Pine	Poletimber Medium	7.1	57	51-80	N/A	portion of stand cut through to remove aspen in 1996																																				
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<b>39</b>	6220 - Alder/willow	Nonstocked	26.8		Unspecified	No	tag alder, open meadow, series of old beaver ponds. multiple drainages, creek feeding into Two Mile Creek																																				
<b>40</b>	4110 - Sugar Maple Association	Poletimber Well	7.4	66	81-110	N/A	access is entirely through pvt																																				
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<b>41</b>	4130 - Aspen	Poletimber Well	30.0	50	Unspecified	N/A	Fir just below aspen canopy and well stocked. southern edge of stand may have a narrow strip of hardwoods. stand should be field verified.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Poor 21.2 61 51-80 N/A very wet, drainage. areas of open with tag alder

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	20	Log/Pole	10		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole	6					
Black Spruce	10	Pole	7					
Black Ash	35	Pole/Sapling	6	61				
Northern White Cedar	10	Log/Pole	10					

**44** 6122 - Black Spruce Poletimber Medium 9.3 61 51-80 N/A fairly open areas through stand heavier to tag alder

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	90	Pole	7	61	Balsam Fir	Low	Variable	Sapling
Northern White Cedar	10	Pole/Log	8		Black Spruce	Low	Variable	Sapling
					Tag Alder	Medium	5 - 10 feet	Tall Shrub

**45** 31021 - Cool Season Grass Nonstocked 4.9 0 Unspecified No Hunter walking trail

**47** 622 - Lowland Shrub Nonstocked 12.5 Unspecified No tag alder and meadows with Two Mile Creek

**48** 42210 - Natural Red Pine Poletimber Well 5.8 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	14		Quaking Aspen	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole	8		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine	5	Pole	8					
Red Pine	80	Pole	8	65				

**51** 122 - Road/Parking Lot Nonstocked 7.2 0 Unspecified No Hwy M95