



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12016

Entry Year 2022

Acreage: 1,526

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2020-10-19

Stand Examiner: Deb Goupell

Legal Description:

T44N R28W Sections 3-5,9-11

Identified Planning Goals:

Manage for best tree species based on Kotar habitat recommendations. Maintain a sustainable, healthy forest with diversity. Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Rolling hills with some rocky openings.

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

Predominantly State owned land with a couple of private landowners. Much of this land base is State Game Fund.

Unique Natural Features:

Cold water trout streams: Flat Rock, Wild West, and Schwartz Creek.

Archeological, Historical, and Cultural Features:

Noted

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Flat Rock Creek, Wild West Creek and Schwartz Creek join in southeast to form the West Branch of the Escanaba River. This compartment contains Flat Rock Creek and Wild West Creek, both of which serve as tributaries to the West Branch of the Escanaba River. Flat Rock Creek and Wild West Creek are both designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Flat Rock Creek and Wild West 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:

This compartment contains considerable state game fund lands. It is also part of the historic Swartz Creek Deeryard. This area is critically important wildlife habitat along the Swartz Creek and Flat Creek Riparian Zones, for bear, deer, furbearers and waterfowl. The oak component is also exceptionally important forage for these species and others.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and Precambrian granite/gneiss subcrop below the glacial drift. There is not an economic use for these rocks, although some might have dimension stone potential. A rock (type?) quarry is located three miles to the north. Iron mines are located approximately fifteen miles to the southwest. A gravel pit is located six miles to the northwest. Part of this area was previously leased for metallic exploration and potential may still exist. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is afforded from county road Schwartz Creek Dam Road and various state forest roads.

Survey Needs:

A few corners may be needed in Section 10.

Recreational Facilities and Opportunities:

Hunting and fishing are popular in this area. Some trapping, ATVing and camping activities are also enjoyed.

Fire Protection:

Felch fire protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

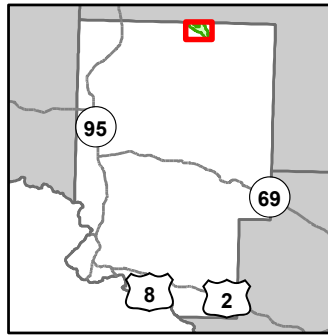
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

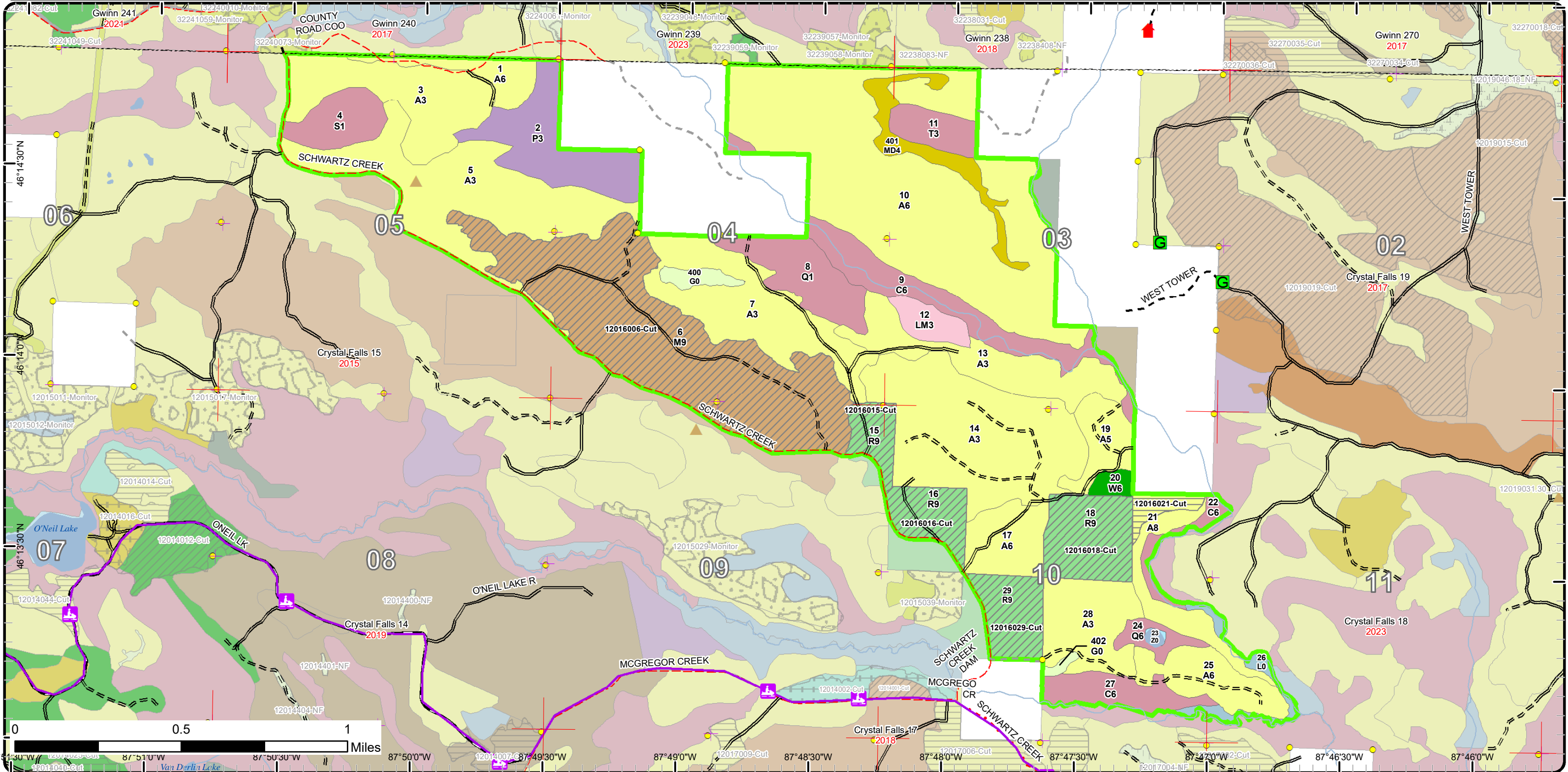
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 16
 T44N, R28W, Sec. 3-5, 9-11
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2022
 Acres: 1526 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 1/22/2021
 Map Phase: Post-Review

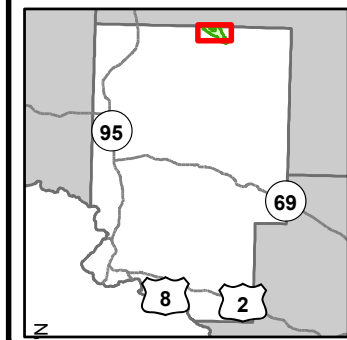


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Cabin
- ▲ Berms
- G Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

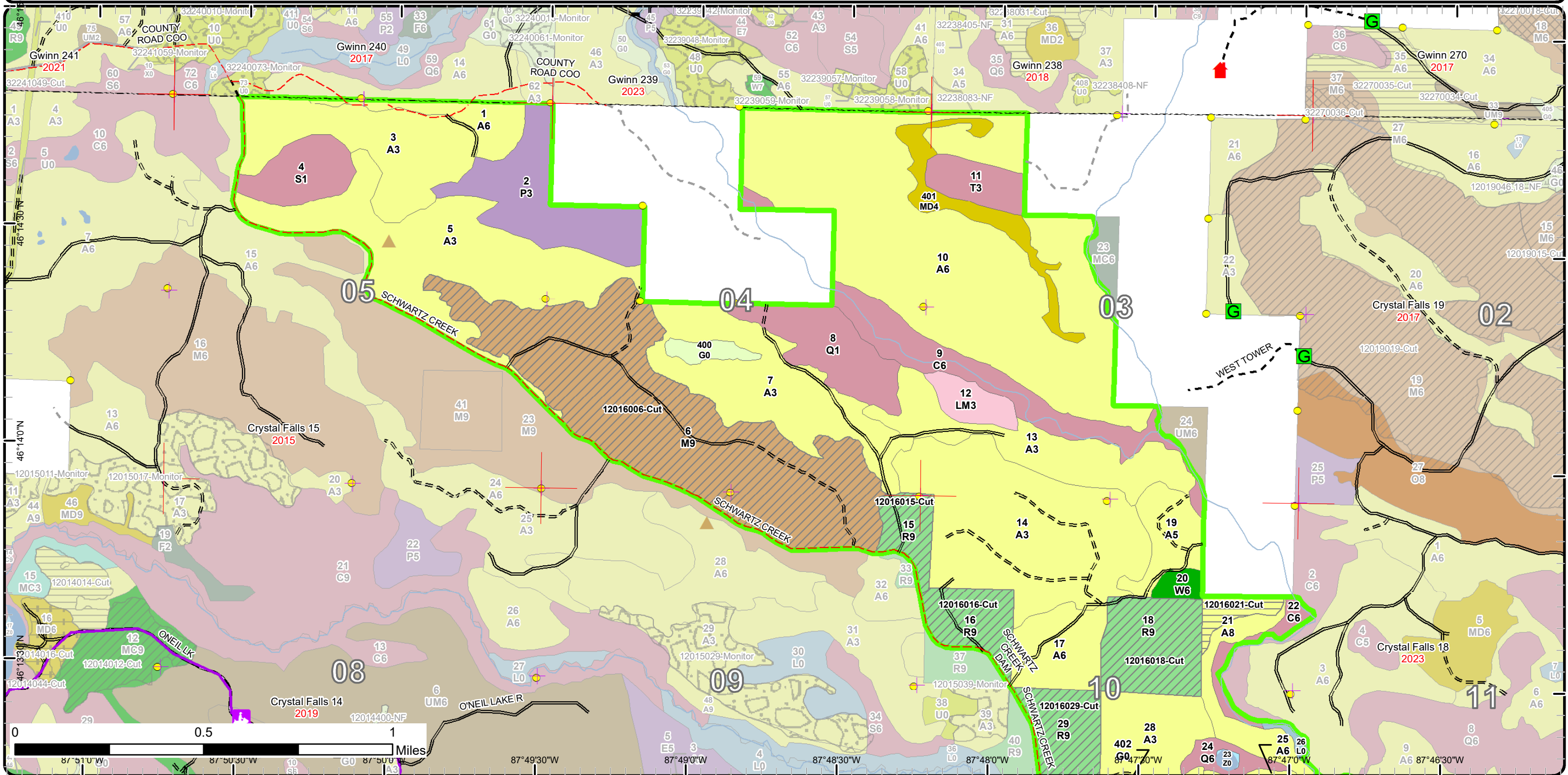


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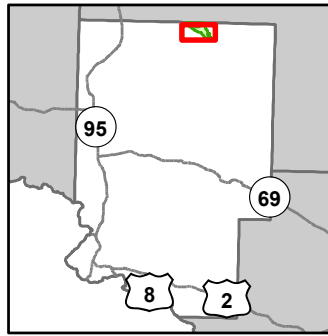


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|--|-------------------------------------|-----------------------------|
| — Miris Corners | — Gate | ■ 310 - Herbaceous Openland |
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| ● Survey Grade Corners | — Perennial River | |
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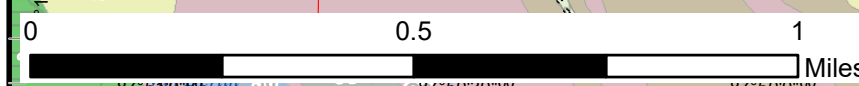
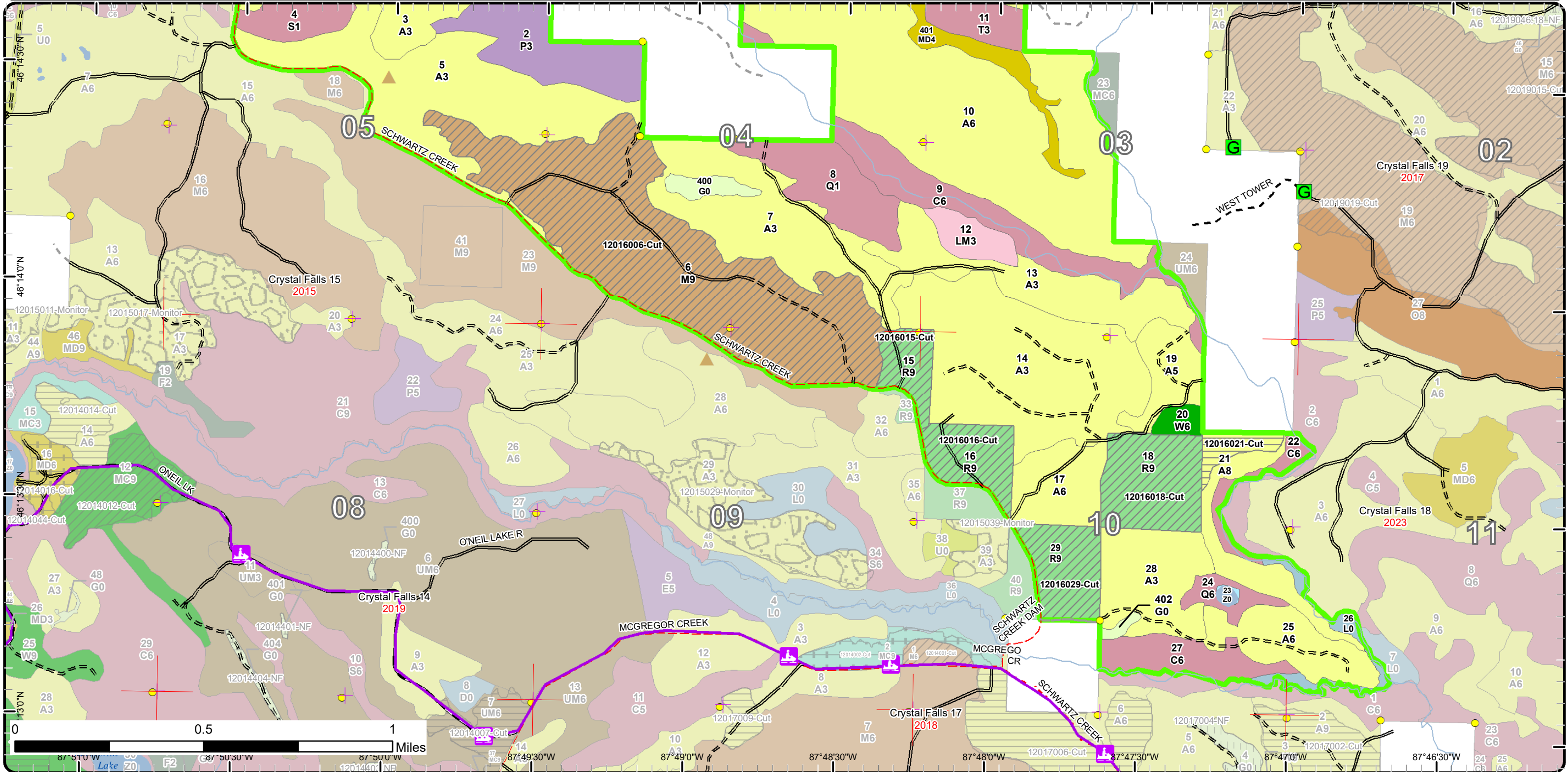


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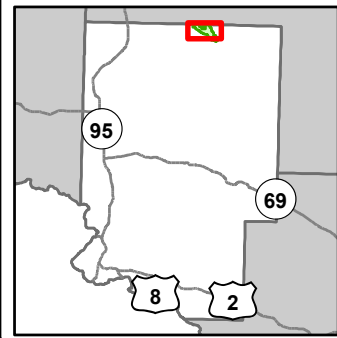
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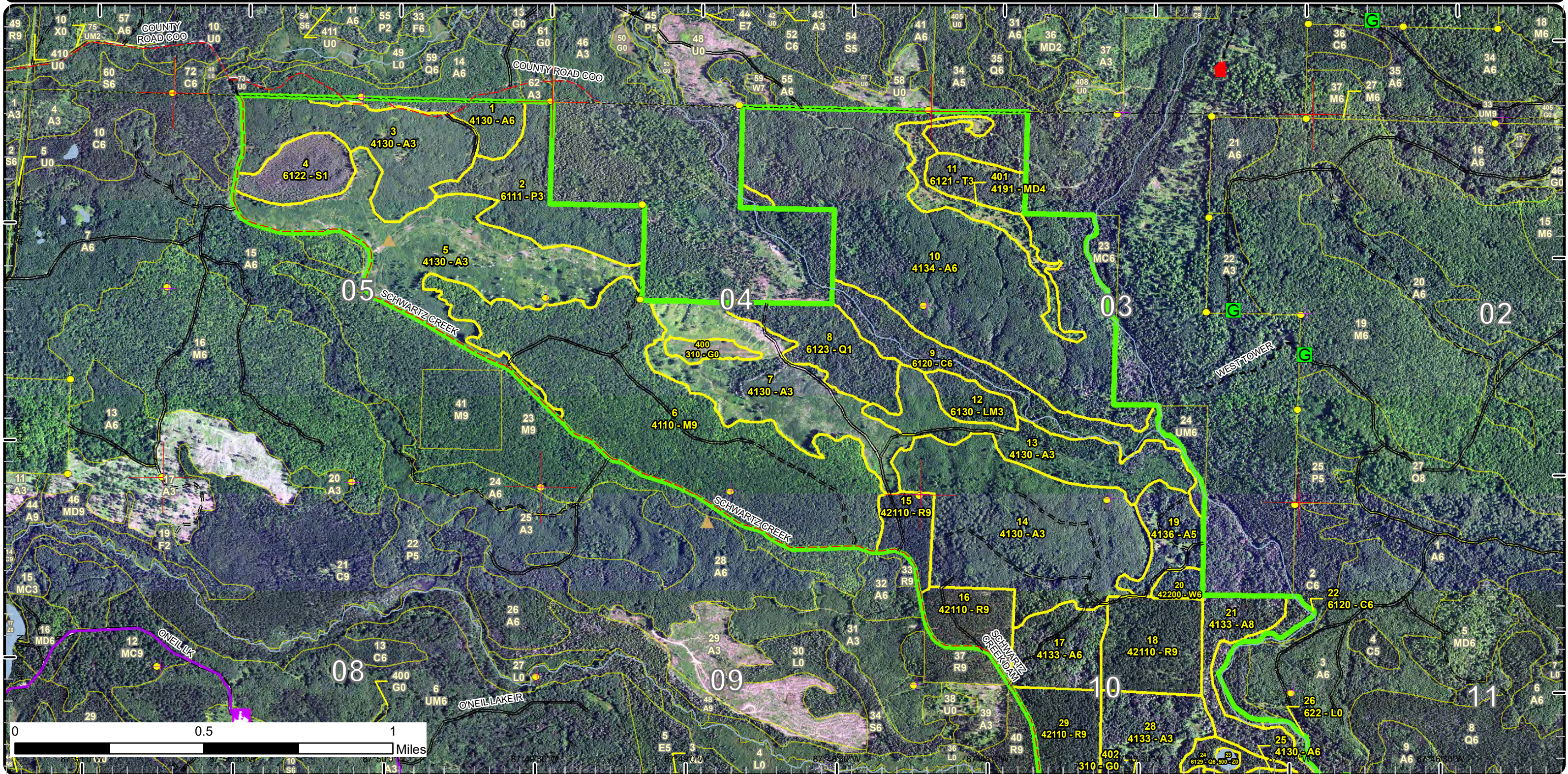
87°51'0"W 87°50'30"W 87°50'0"W 87°49'30"W 87°49'0"W 87°48'30"W 87°48'0"W 87°47'30"W 87°47'0"W 87°46'30"W

Stand Boundary Map

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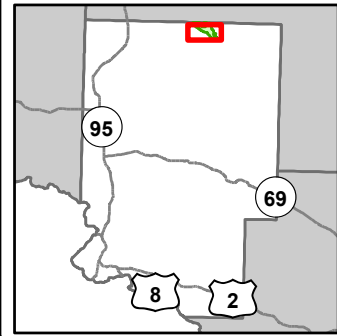


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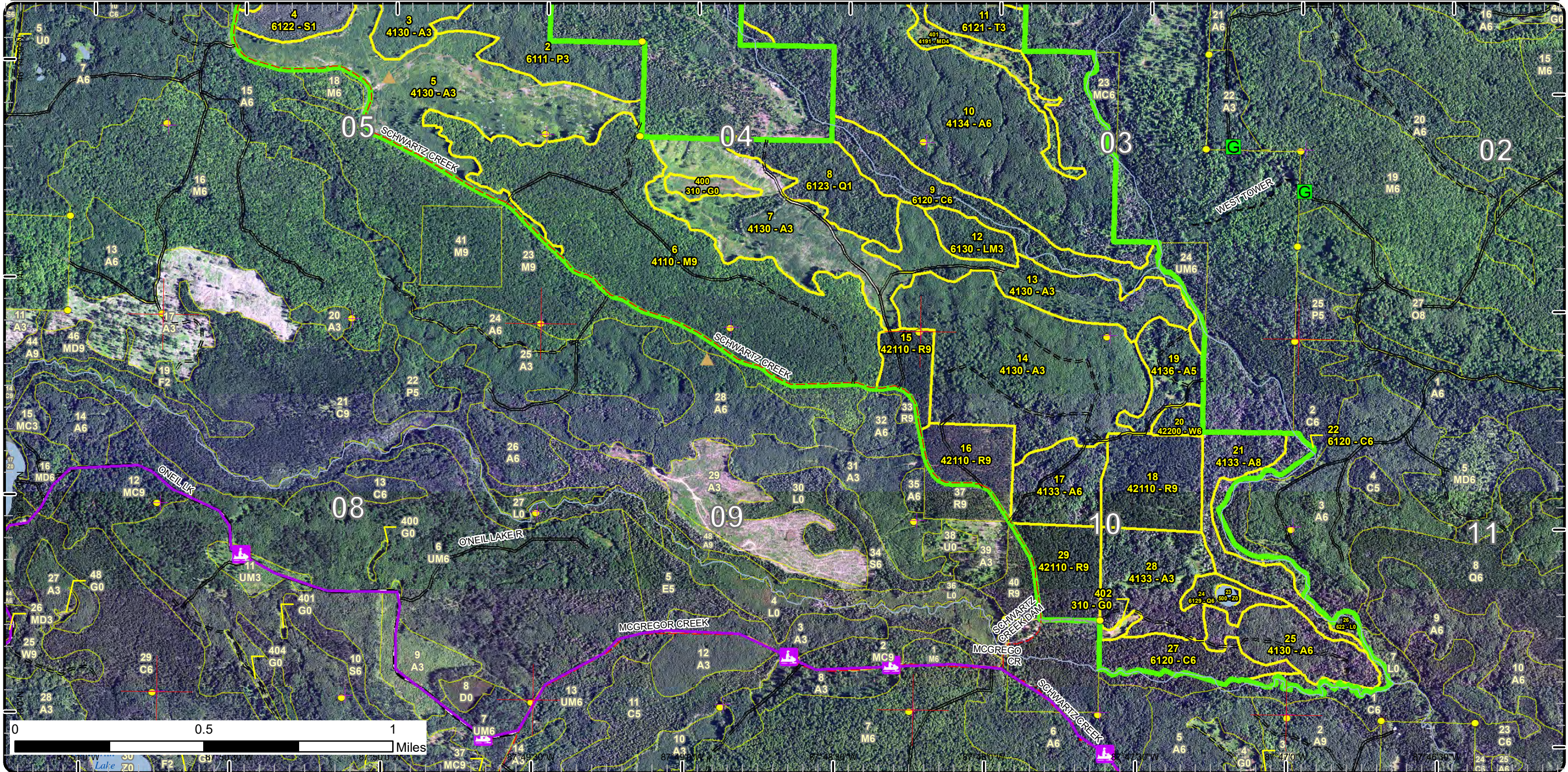


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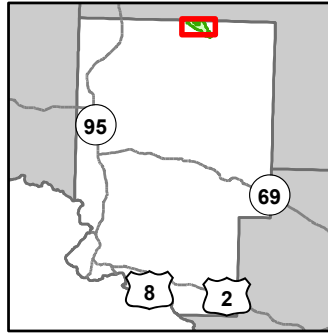


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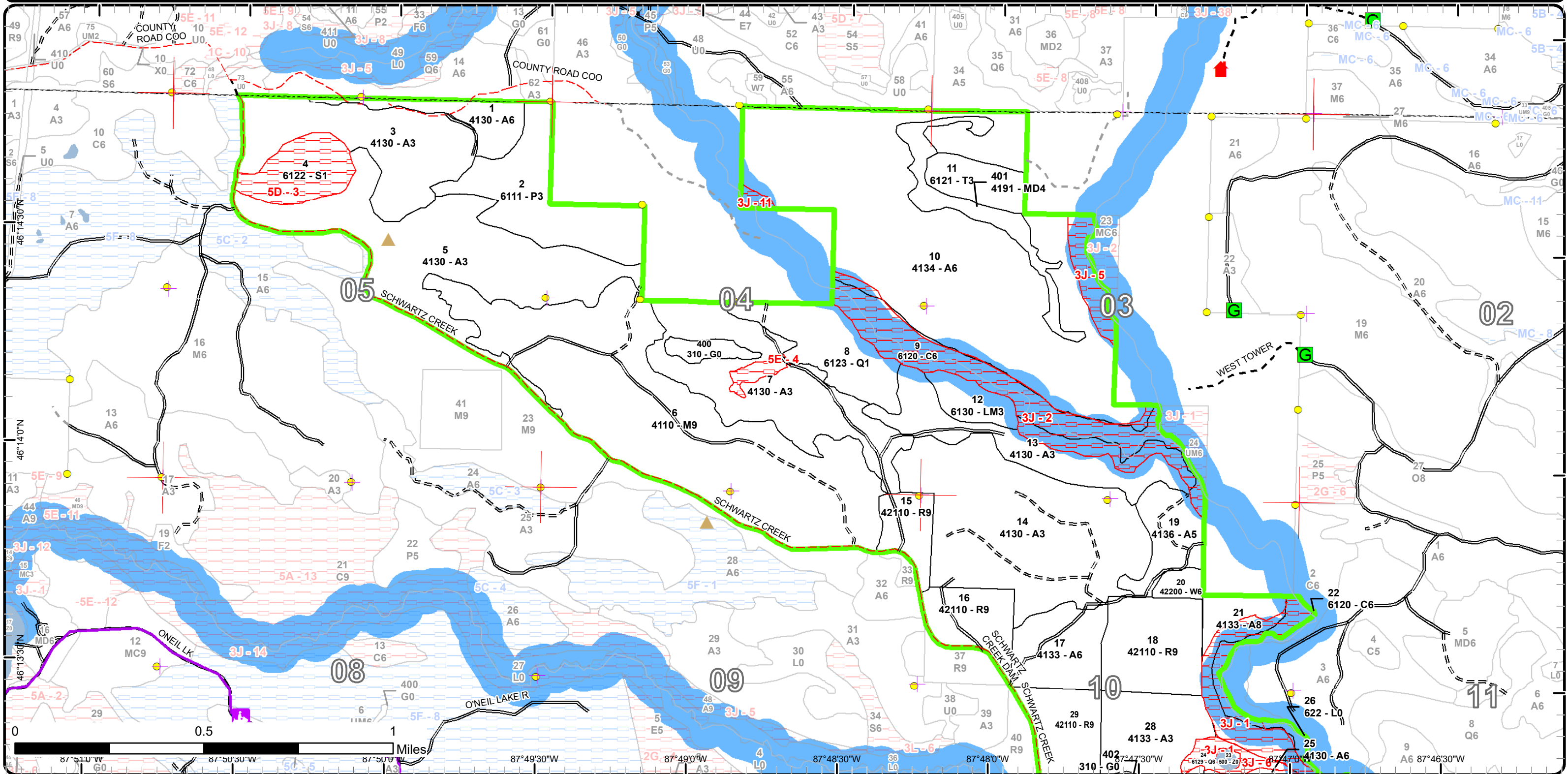


Special Conservation Areas

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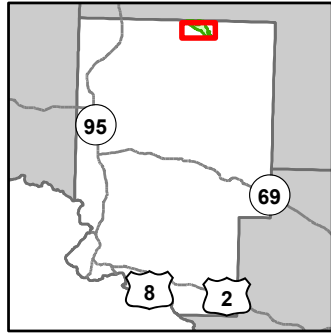


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- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

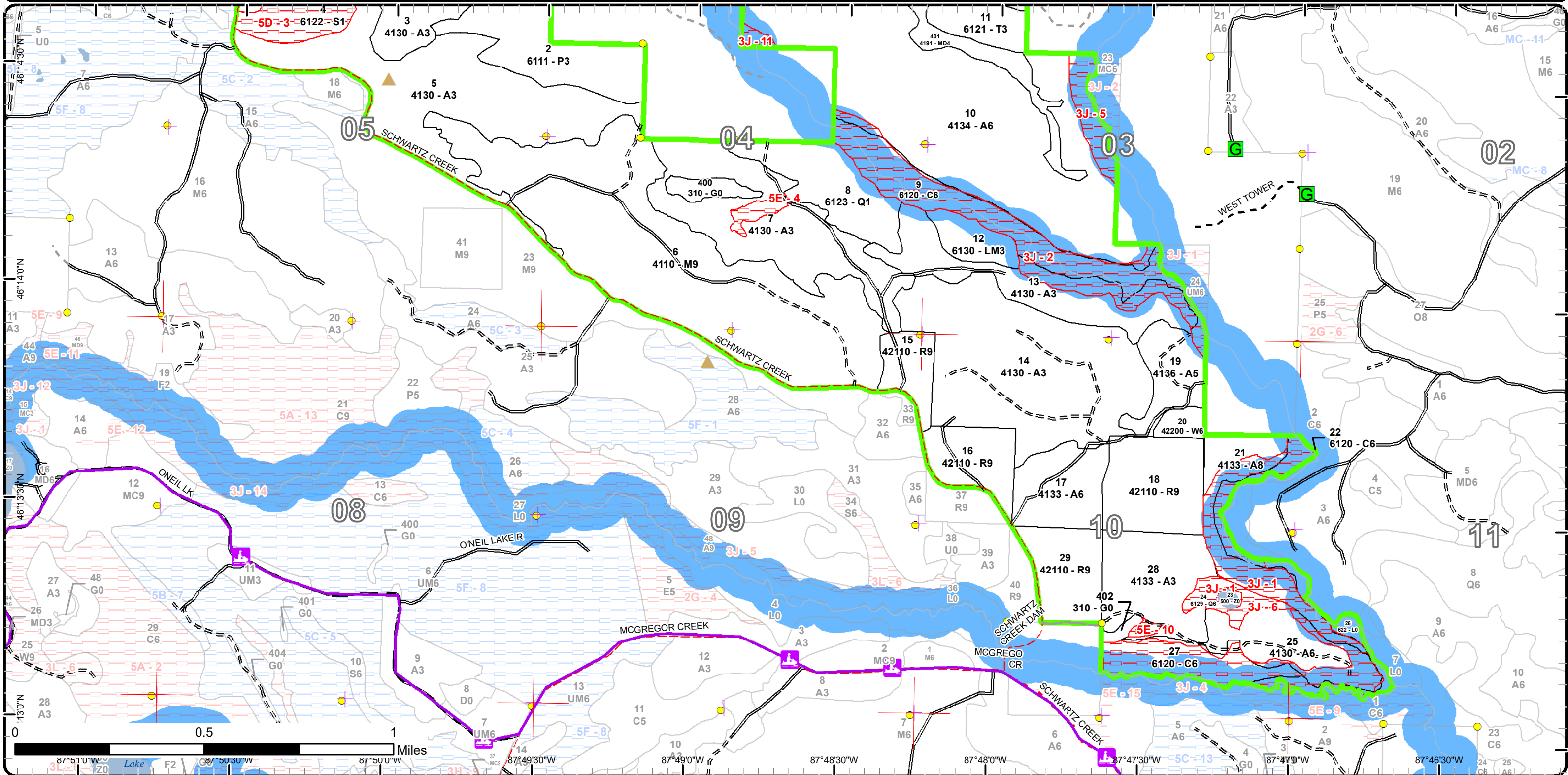


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Report 1 – Total Acres by Cover Type and Age Class



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	246	122	133	262	110	0	0	0	34	0	0	0	0	0	0	0	0	907
Cedar	0	0	0	0	0	0	0	0	0	0	36	51	0	0	0	0	0	0	86
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	38	0	0	0	0	0	9	0	0	0	0	0	0	0	47
Lowland Mixed Forest	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	0	0	0	0	0	0	0	205	0	0	0	0	0	0	0	0	205
Red Pine	0	0	0	0	0	0	0	0	0	114	0	0	0	0	0	0	0	0	114
Tamarack	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Total	23	246	122	133	413	110	6	0	0	379	45	51	0	0	0	0	0	0	1527



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 16
Total Compartment Acres: 1,526

Commercial Harvest - 328
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	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	0	205	0	0	0	205
Red Pine	0	0	0	0	0	114	0	0	0	114
Total	9	0	0	0	0	319	0	0	0	328

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	328	0	0	0	0	0	0	0	0	328
Next Step	0	0	0	0	0	0	9	0	0	9
Total	328	0	0	0	0	0	9	0	0	337



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:

6	12016006-Cut	204.9	4110 - Sugar Maple Association	Sawtimber Well	85	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Thin to BA 80 focusing on crop tree release. Do not cut oak or white pine. Open around oaks. Leave representation of all species, particularly											
<u>Specs:</u> ironwood along north edge. Retain some conifer component.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Ironwood is very thick. Much grass also.											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
15	12016015-Cut	16.8	42110 - Planted Red Pine	Sawtimber Well	82	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thin to 90-100 BA. Retain oak and white pine. Protect spruce and fir as possible.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
16	12016016-Cut	25.5	42110 - Planted Red Pine	Sawtimber Well	84	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thin to 90-100 BA. Leave oak & white pine. Protect spruce and fir as possible.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
18	12016018-Cut	42.1	42110 - Planted Red Pine	Sawtimber Well	82	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thin to 90-100 BA. average BA is 120. Parts on the northwest are already fairly thin with thick aspen/maple understory. Leave oak & white											
<u>Specs:</u> pine. Protect spruce and fir as possible.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											

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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 12016021-Cut	9.1	4133 - Aspen, Mixed Pine	Sawtimber Medium	82		Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Final harvest all species except cedar, white and red pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> aspen, mixed softwood, mixed hardwood <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
29 12016029-Cut	29.7	42110 - Planted Red Pine	Sawtimber Well	82	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thinn to 90-100 BA. Leave oak & white pine. Protect spruce and fir as possible. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										

Total Treatment 328.1
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 16
 Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3J	5D	5E
906	839	0	67	Aspen	0	61		6
86	3	0	83	Cedar		83		
9	9	0	0	Herbaceous Openland				
57	57	0	0	Lowland Aspen/Balsam Poplar				
48	38	0	9	Lowland Conifers		9		0
14	14	0	0	Lowland Mixed Forest		0		
11	7	0	5	Lowland Shrub		5		
26	0	0	26	Lowland Spruce/Fir			26	
24	24	0	0	Mixed Upland Deciduous				
205	205	0	0	Northern Hardwood				
114	114	0	0	Red Pine				
18	18	0	0	Tamarack				
2	0	0	2	Water		2		
6	6	0	0	White Pine				
1,526	1,334	0	192	Total Forested Acres	0	160	26	6
	87%	0%	13%	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)	74	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 16
 Year of Entry: 2022



3	Unavailable	5D: Unproductive Forest Land	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: 300 foot buffer to top priority trout stream							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water 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	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 Well	20.0	44		N/A	Birch Knoll Block cut 1977. Averages 4-5 sticks. Some red maple and sugar maple in understory																																	
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2	6111 - Lowland Balsam Poplar	Sapling Well	56.7	34	Immature	N/A	Upper Flat Rock Club TS cut 1987. Quaking aspen on south and north edges of stand. Cedar pocket on far east along private; Quite wet through center																																	
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3	4130 - Aspen	Sapling Well	67.6	16		N/A	Lost Quarter TS cut 2005. Traces of Tamarack; Spruce and balsam mostly along edges and west central stand																																	
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4	6122 - Black Spruce	Sapling Poor	25.5	88		N/A	Treed bog may be better descriptor. Most of pole sized tamarack is dead from Eastern Larch Beetle.																																	
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5	4130 - Aspen	Sapling Well	118.6	8	Immature	N/A	Bir-pen Red Hills TS cut 2013. A handful of red oak still standing. A handful of red oak saplings directly along roads																																	
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6	4110 - Sugar Maple Association	Sawtimber Well	204.9	85	111-140	N/A	Much grass throughout. Only oak seedlings are along county road with a few on west end. Average BA was 129, with 21 points taken.																																	
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8	6123 - Lowland Fir	Sapling Poor	38.3	34	Immature	N/A	Cedar Block TS cut 1987. Cutting psec was cut all stick and greater. Much balsam is dead. A few cedar, white birch and black spruce residuals on far west end.																																																															
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9	6120 - Lowland Cedar	Poletimber Well	50.5	100		N/A	Buffer along Flat Rock River.																																																															
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10	4134 - Aspen, Spruce/Fir	Poletimber Well	261.6	36		N/A	Aspen diameters range from 6-10". Spruce/fir residual from last cut is thickest on south edge of stand. Aspen averages 3-4 sticks. South central has ridges of larger WS, WP, RP. Gully filled stand. Far east/northeast has a steep slope within 300 ft buffer is overmature aspen, spruce, birch, tamarack and directly on the river is cedar.																																																															
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11	6121 - Tamarack	Sapling Well	18.1	36		N/A	Was cut with adjacent aspen stand in 1985. Wet.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12	6130 - Fir, Aspen, Maple	Sapling Well	13.7	34	Immature	N/A	Cedar Block TS cut 1987 was to cut all stems with 1 stick and more. This is better stocked than other unit cut with this sale (stand 8). Some larger residual WS, tamarack on edge																																							
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13	4130 - Aspen	Sapling Well	54.8	16		N/A	Flat Rock Fir cut 2005																					
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14	4130 - Aspen	Sapling Well	132.7	27	Immature	N/A	Jack pine pocket in southwest corner mingled with some red pine. Oak is on west side. Trail Sale cut 1994.																																											
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15	42110 - Planted Red Pine	Sawtimber Well	16.8	82	111-140	N/A	Four plots averaged 147 BA. Thin to 90																										
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16	42110 - Planted Red Pine	Sawtimber Well	25.5	84	81-110	N/A	Birpen Red Hills TS thinned 2015. Leave oak thin to 90BA																			
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18	42110 - Planted Red Pine	Sawtimber Well	42.1	82	111-140	N/A	Average BA 120; thin to 90																																																								
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19	4136 - Aspen, Mixed Conifer	Poletimber Medium	23.5	45		N/A	Aspen diameters range from 5-10". Jack pine found in clumps in openings with limbs to ground. Much of white spruce over 8"dbh is dead except in clumps in openings.																																																								
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20	42200 - Natural White Pine	Poletimber Well	6.1	57	81-110	N/A	Flat Rock Pine TS 2005 (cut all species except pine.)																																																								
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24	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	9.3	92		N/A	Wet stand.																																									
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25	4130 - Aspen	Poletimber Well	34.6	46		N/A	Most of white spruce & balsam is dead from SBW but it was 1 stick and less (submerchantable). Live WS/BF on far east within 300' river buffer.																																									
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26	622 - Lowland Shrub	Nonstocked	11.5			No																																										
27	6120 - Lowland Cedar	Poletimber Well	26.0	92		N/A																																										
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28	4133 - Aspen, Mixed Pine	Sapling Well	46.6	5	Immature	N/A	Stand was cut with McSchwartz SBW 2016, OOOYE. Watch to see if jack pine seedlings take hold.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
29	42110 - Planted Red Pine	Sawtimber Well	29.7	82	141-170	N/A	Schwartz Creek Plantation TS thinned in 1996. Thin to 90 or 1/3 current BA. There is a trace of white pine.																																								
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400	310 - Herbaceous Openland	Nonstocked	7.1			No																																									
401	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	24.3	32	Immature	N/A	This opening is really filling in with a little bit of everything.																																								
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