



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12018

Entry Year 2023

Acreage: 2,099

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T44N-R27W Sections 7 & 18-19,
T44N-R28W Sections 10-14 & 23-25

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:

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

Predominantly State owned and surrounded by State. Used heavily by hunters, trappers, some fishing, camping and general UTV recreation.

Unique Natural Features:

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Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

West Branch of the Escanaba and Schwartz Creek are high quality trout streams to be buffered 300 feet

Watershed and Fisheries Considerations:

This compartment contains the West Branch of the Escanaba River and borders Schwartz Creek. Additionally, this compartment contains a stream that serves as tributary to the West Branch of the Escanaba River. All of these waterbodies are designated Type 1 trout streams less than 50' width and have predicted mean July temperatures that range from 60.6 to 64.4 °F (cold streams). 300' buffers are recommended for these streams 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:

All species of wildlife need to be considered and a full range of habitat conditions should be provided. Conditions from early-successional to old growth must be provided to meet these needs. Riparian and transition zones were set aside in prior years of entry to provide some of these habitat requirements. Openings will be maintained as logistics permit.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The State-owned Aimone Road Pit is one mile to the southwest and is currently leased to the County Road Commission. There may be some limited potential for sand & gravel within the compartment on the upland drumlins. There has been no known metallic mineral exploration in the area, and there is no known potential beneath the compartment. No current mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Simpson Road and various two-track dirt roads provide access.

Survey Needs:

None needed for current treatments

Recreational Facilities and Opportunities:

Hunting, fishing, camping, trapping, UTV riding.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

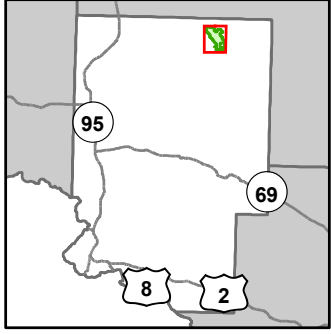
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

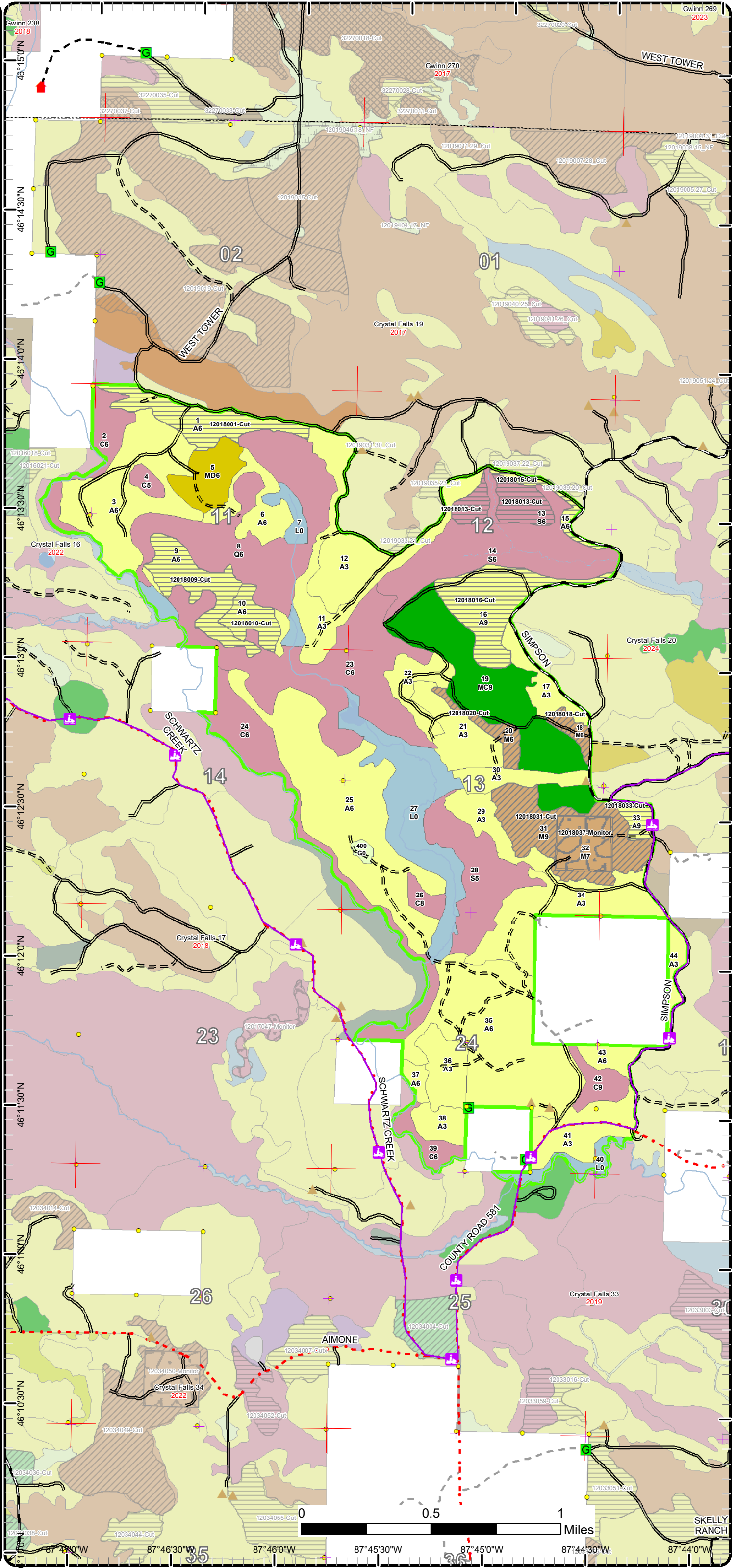
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 18
 T44N, R28W, Sec. 10-14, 24, 25
 T44N, R27W, Sec. 7, 18, 19
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 2099.1 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021
 Map Phase: Post-Review

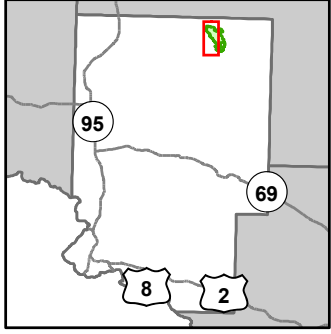


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond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

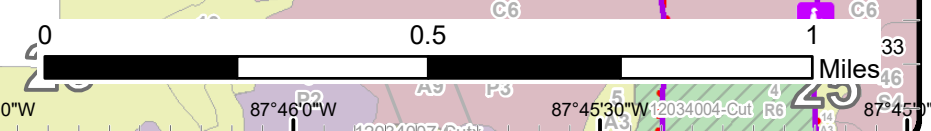
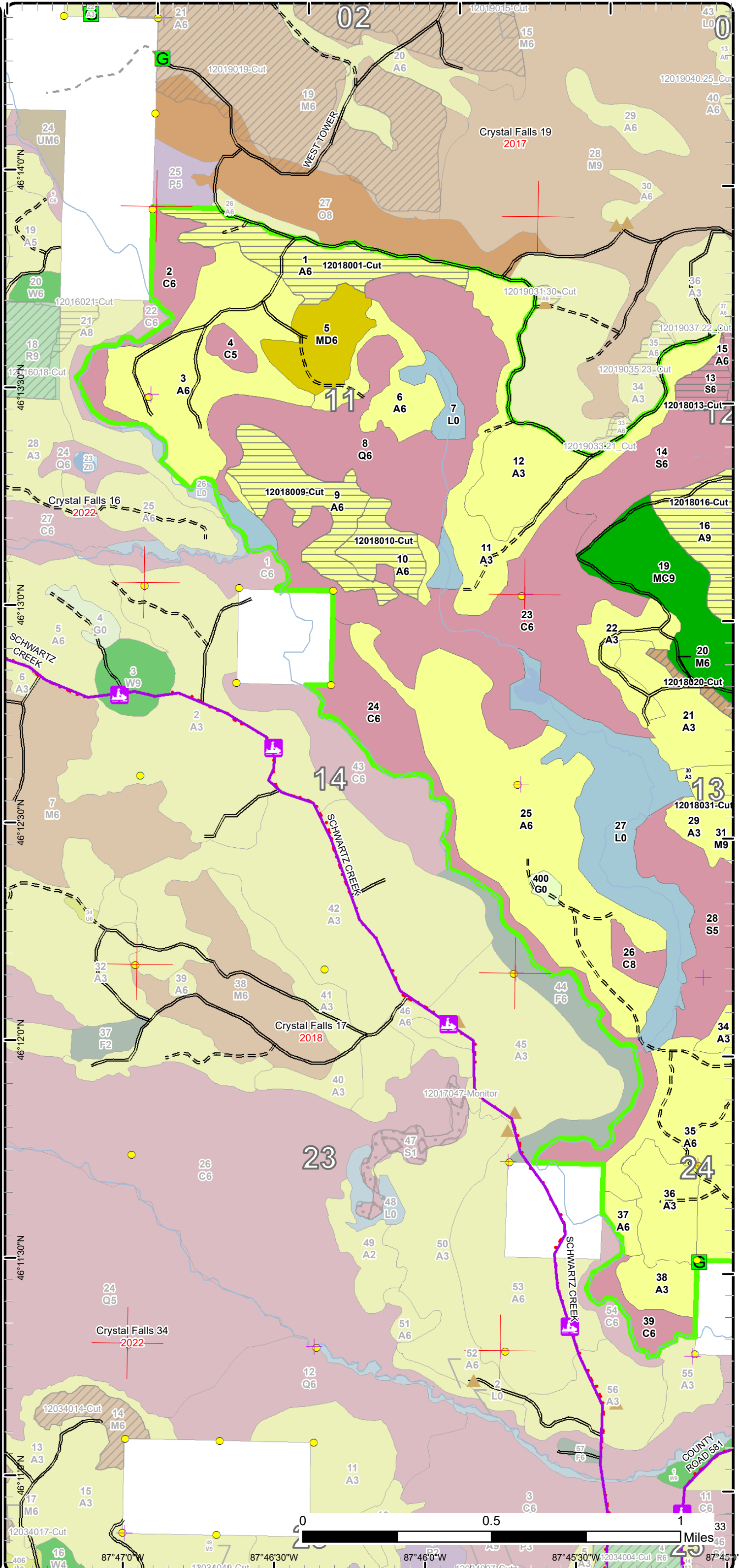


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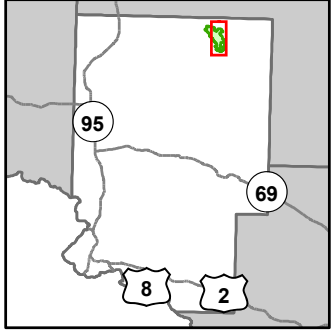


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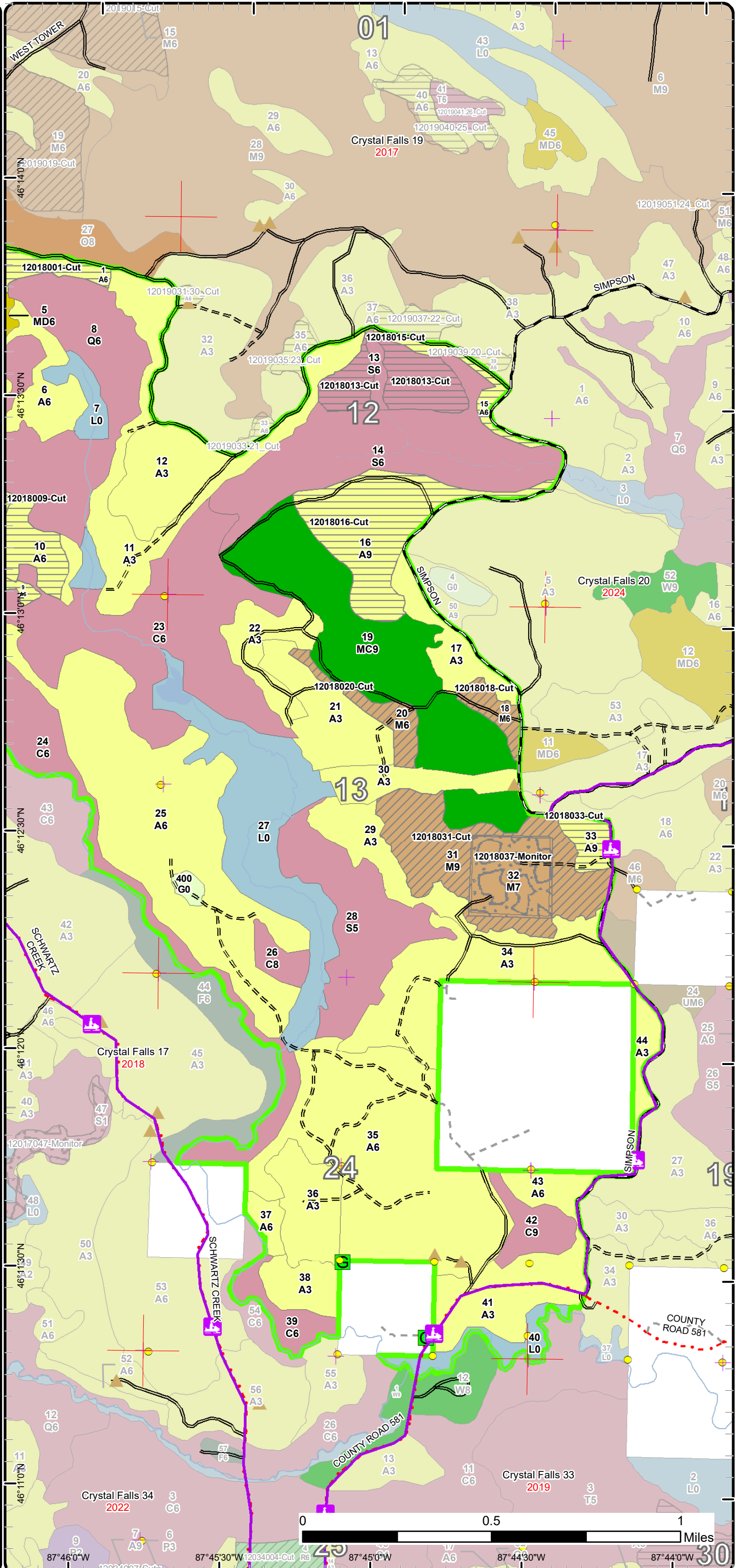


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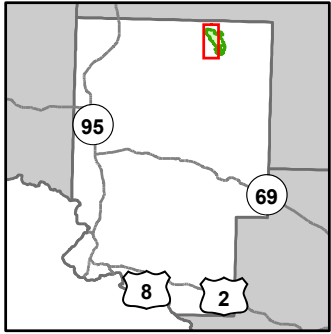
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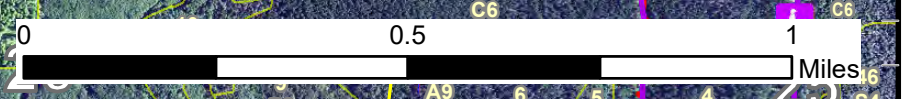
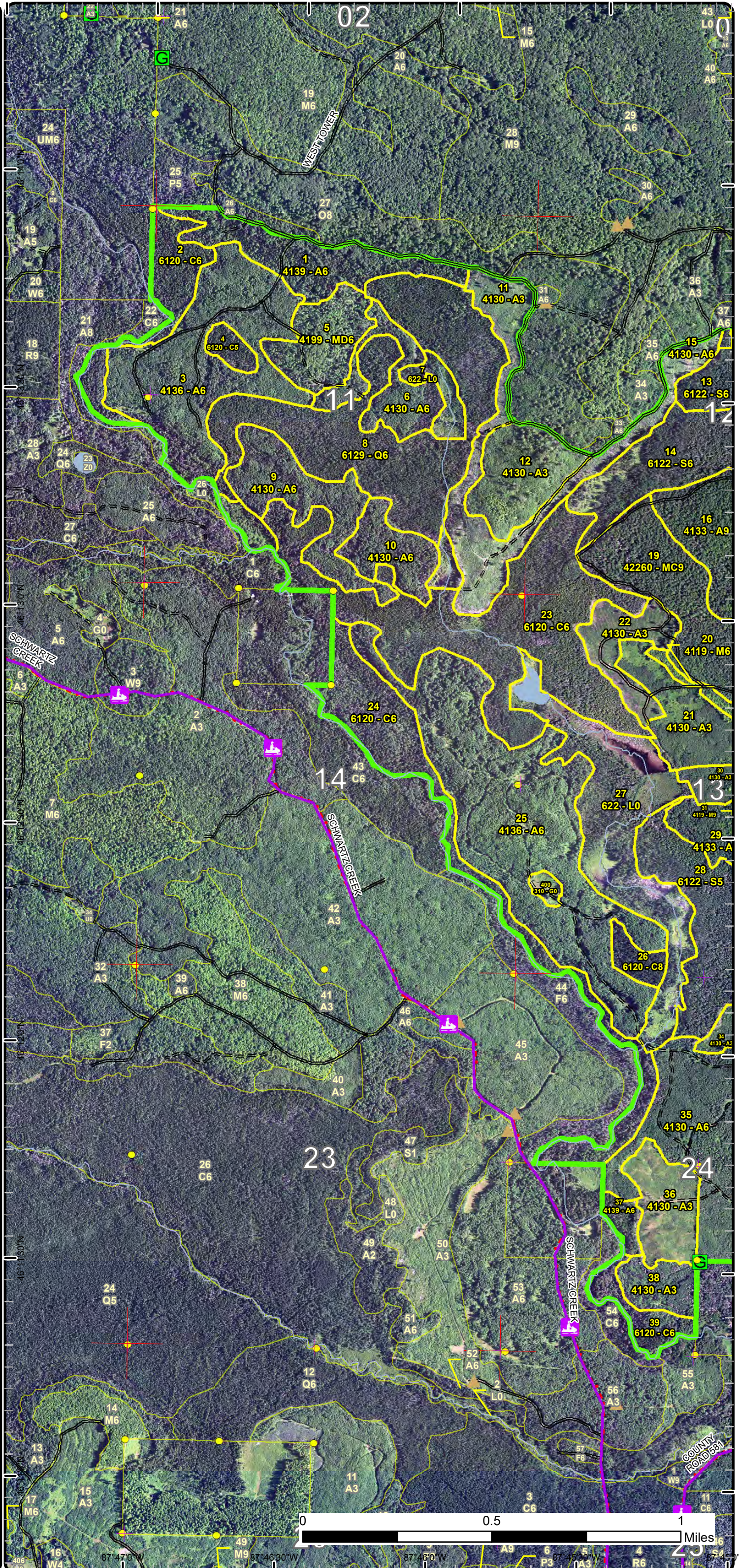
87°46'0"W 87°45'30"W 87°45'0"W 87°44'30"W 87°44'0"W
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Stand Boundary Map

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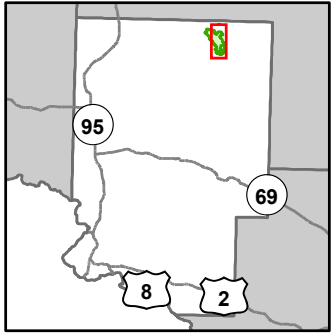


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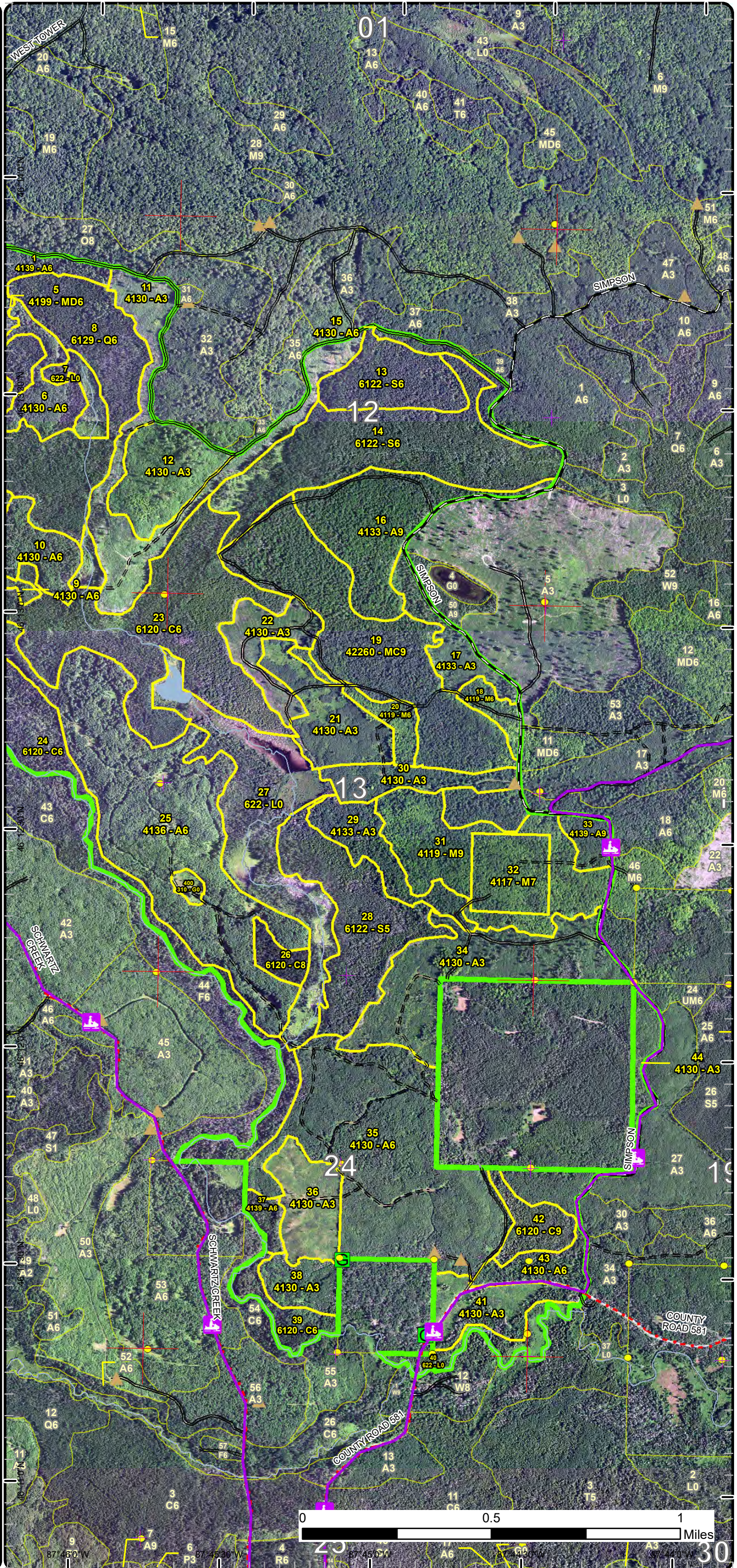


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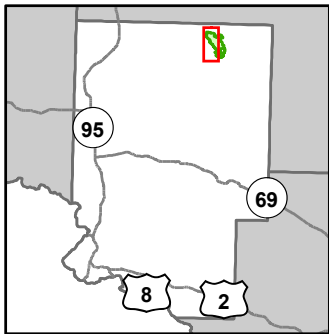


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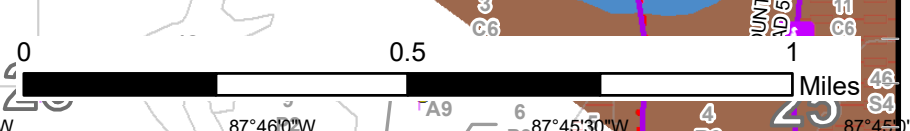
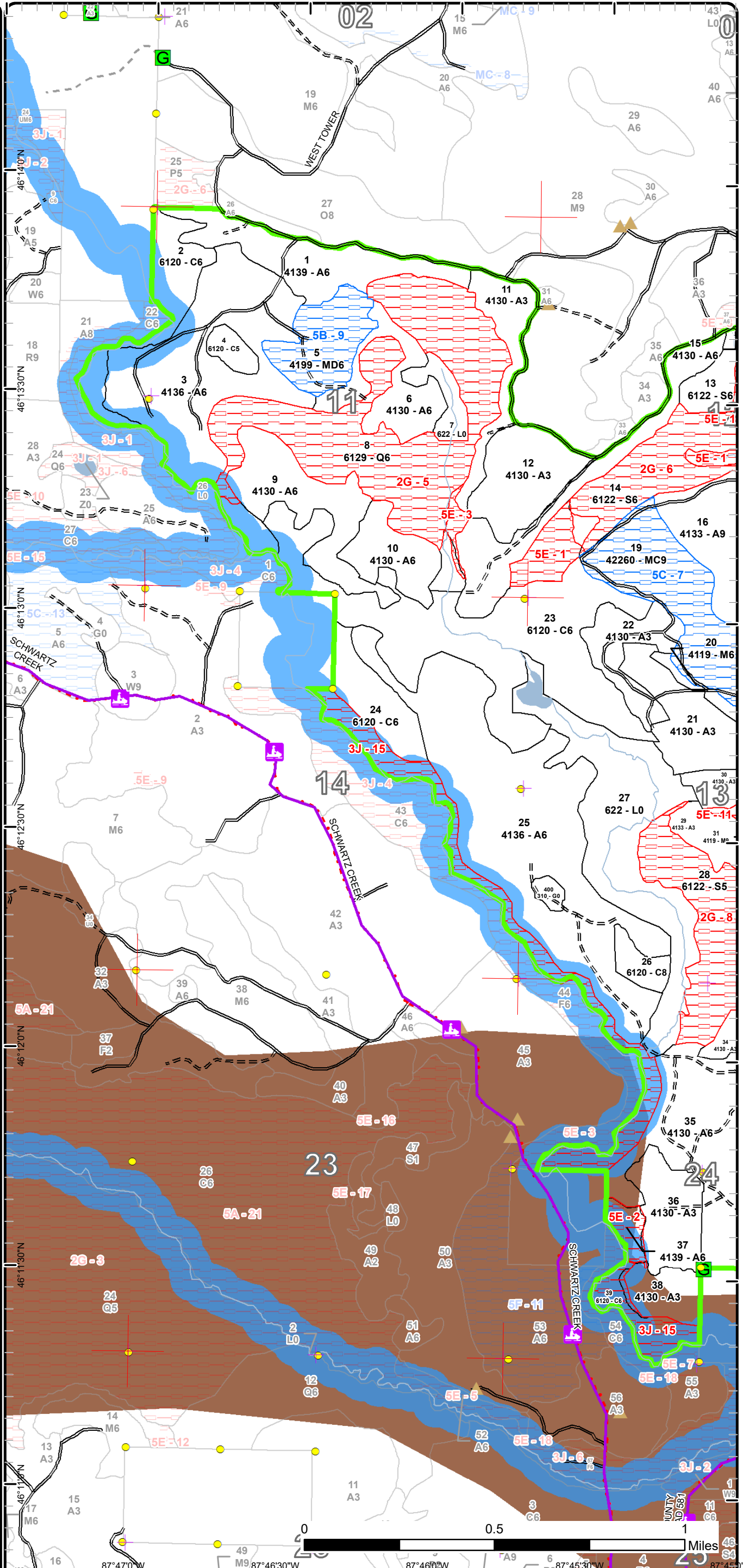


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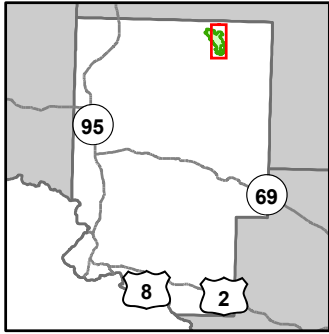


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 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

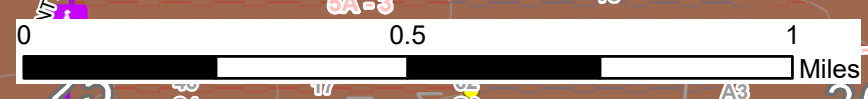
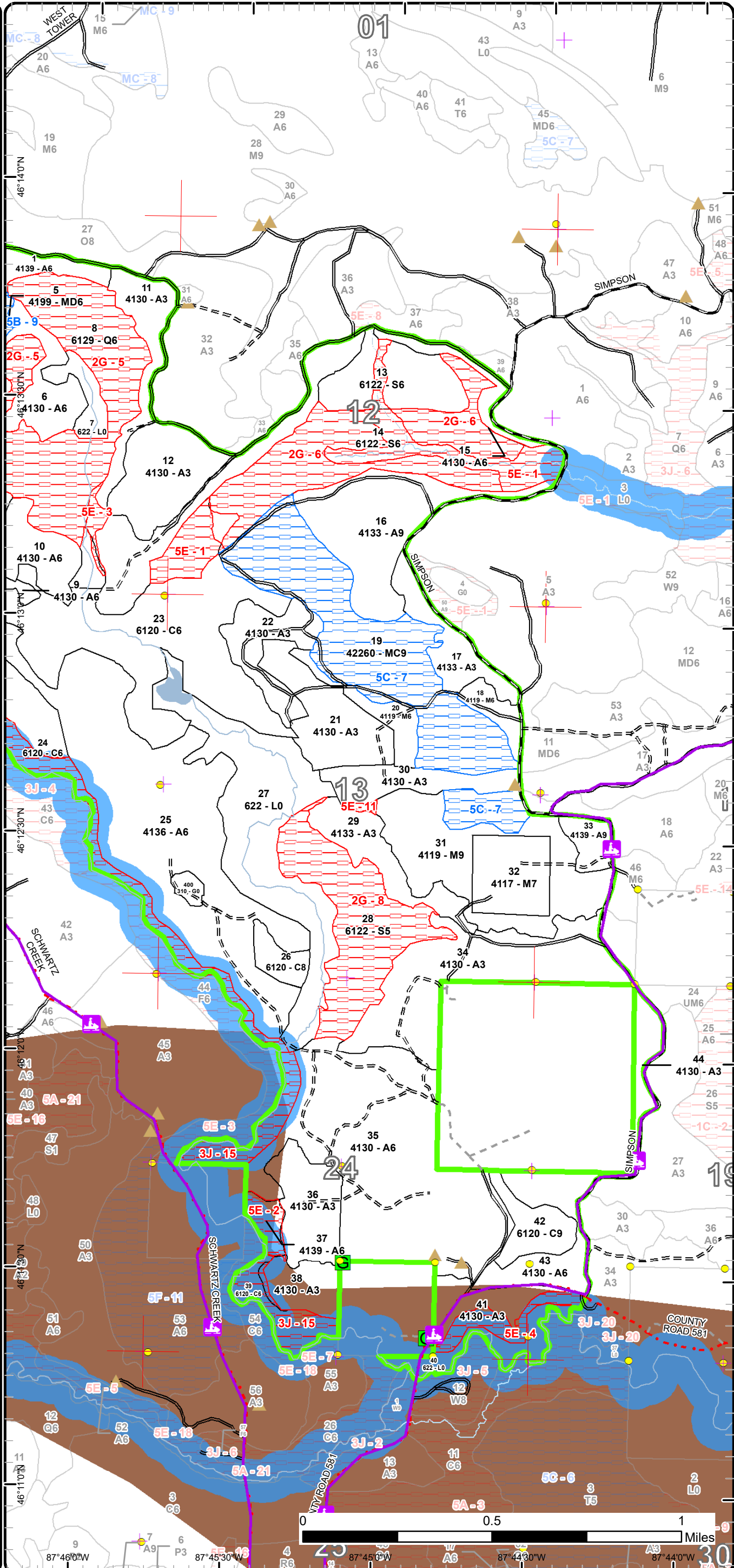


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- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



87°46'0"W 87°45'30"W 87°45'0"W 87°44'30"W

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	290	95	169	293	119	105	0	7	0	0	0	0	0	0	0	0	0	1076
Cedar	0	0	0	0	0	0	0	0	0	254	26	15	0	0	0	0	0	0	295
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	133
Lowland Shrub	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
Lowland Spruce/Fir	0	0	0	0	0	0	36	0	0	166	0	0	0	0	0	0	0	0	202
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	119	0	0	0	0	0	0	0	119
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	110
Total	133	290	95	169	293	119	141	0	7	585	255	15	0	0	0	0	0	0	2100



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 18
Total Compartment Acres: 2,099

Commercial Harvest - 301
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	189	0	0	0	0	0	0	0	0	189
Lowland Spruce/Fir	31	0	0	0	0	0	0	0	0	31
Northern Hardwood	0	0	0	0	81	0	0	0	0	81
Total	220	0	0	0	81	0	0	0	0	301

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	301	0	0	0	0	30	0	0	0	330
Next Step	0	0	0	0	0	220	0	0	0	220
Total	301	0	0	0	0	250	0	0	0	550



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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:

1	12018001-Cut	44.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	40	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" dbh and greater except for oak, pine, cedar. Leave some component of cherry (submerch acceptable) and white birch.</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, mixed conifer, mixed hardwood</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 /2022</p>											
9	12018009-Cut	43.4	4130 - Aspen	Poletimber Well	45	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" and greater except oak, white & red pine, cedar. Leave some component of Cherry (submerch is acceptable) & birch for WLD.</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, mixed conifer, mixed hardwood</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 /2022</p>											
10	12018010-Cut	20.2	4130 - Aspen	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" and greater except oak, red & white pine, cedar. Leave some component of white birch and cherry (submerchantable cherry is acceptable). Treatment boundary reflects 300' buffer to stream which will serve as retention.</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, mixed softwood, mixed hardwood</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 /2022</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
13 12018013-Cut	30.8	6122 - Black Spruce	Poletimber Well	57	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems within treatment area (buffer/exclusion will be the retention area within the stream) except cedar. Leave some component of cherry (submerch is acceptable) and maple.</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 Regen:</u> tamarack, spruce, balm of gilead</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
15 12018015-Cut	10.7	4130 - Aspen	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" dbh and greater except cedar, red pine, white pine, oak. Recommend cutting with adjacent stand 1 in comp 20.</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 Regen:</u> aspen, mixed conifer, mixed hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
16 12018016-Cut	60.2	4133 - Aspen, Mixed Pine	Sawtimber Well	54	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater except red pine, white pine, oak, cedar. Hemlock will be retained if found. Leave some component of cherry (submerch is acceptable) and white birch (maybe leave all 8" and less or green tree when cruising or spec 1/acre).</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 Regen:</u> mixed pine, aspen, mixed hardwood, mixed softwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
18 12018018-Cut	9.4	4119 - Mixed Northern Hardwoods	Poletimber Well	90	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70 BA to remove defect while maintaining BA. Retain all pine, cedar, hemlock and oak if found.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Stand is not quite at target BA but as we are thinning stand to south, we won't be thinning for another 20 years. Makes sense to improve stand while we're here.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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20	12018020-Cut	12.7	4119 - Mixed Northern Hardwoods	Poletimber Well	90	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin stand to 60-70 BA removing as much defect while maintaining BA. Retain all pine, cedar, hemlock and oak, if found.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other BA average is 106 but since we are thinning stand to south, we won't be in here for another 20 years. Enough defect to warrant a light thin
Comment: for stand improvement.

Site Condition

Proposed Start Date: 10/1 /2022

31	12018031-Cut	58.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to 70 BA. Focus removal around oaks to promote scarification and recruitment of oak saplings. Retain all pine and remove only oak in
Specs: poor health/condition.

Next Step

Treatments:

Acceptable mixed hardwood, mixed pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

33	12018033-Cut	10.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	58	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest all trees 2" and greater, except pine. Encourage bare ground harvest for greatest scarification.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

32	12018037-Monitor	29.5	4117 - Mixed N. Hardwood - Pine	Sawtimber Poor	95	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
----	------------------	------	---------------------------------	----------------	----	------	------------	------------------------------	-------------------------	-------------	----

Prescription this is a MWR sale seed tree. Regeneration will be performed by MWR staff.

Specs:

Next Step

Treatments:

Acceptable maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 4 /21/2020



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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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Total Treatment Acreage Proposed: 330.1

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 18

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	3J	5A	5E	
1076	1052	0	24	Aspen				1			23
295	220	0	75	Cedar				60			14
4	4	0	0	Herbaceous Openland							
133	0	0	133	Lowland Conifers			133				0
129	128	0	1	Lowland Shrub					0		1
201	32	0	169	Lowland Spruce/Fir			141				28
31	0	31	0	Mixed Upland Deciduous	31						
119	0	119	0	Natural Mixed Pines		119					
111	111	0	0	Northern Hardwood							
2,099	1,547	151	401	Total Forested Acres	31	119	274	61	0		66
	74%	7%	19%	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	5E: Long-Term Retention	41	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 18

Year of Entry: 2023

4	Unavailable	5E: Long-Term Retention	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	133	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 18

Year of Entry: 2023

11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	62	5A: Not able to obtain desirable regeneration	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	4139 - Aspen, Mixed Deciduous	Poletimber Well	44.7	40	Unspecified	N/A	Most of merchantable WS/BF are dead from SBW. Cut to clean up stand.																																																					
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2	6120 - Lowland Cedar	Poletimber Well	30.4	88	Unspecified	N/A	Good looking cedar in north. South has more of the balm of gilead and other species.																																																					
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3	4136 - Aspen, Mixed Conifer	Poletimber Well	99.6	33	Immature	N/A	Paavo TS cut 1988. Red & white pine seeding in along roads and openings. SBW has had a devastating effect on the merchantable spruce/fir.																																																					
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4	6120 - Lowland Cedar	Poletimber Medium	7.0	88	Unspecified	N/A	Poorly stocked. Very wet with some ponded water.																																																					
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5	4199 - Other Mixed Upland Deciduous	Poletimber Well	31.5	88	81-110	N/A	Swamp V TS cut all aspen and birch in 12/2014. 90% merchantable BF is dead.																																																					
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7	622 - Lowland Shrub	Nonstocked	22.4		Unspecified	No																																															
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	132.9	88	Unspecified	N/A	Some tamarack pockets are getting hit with ELB.																																														
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9	4130 - Aspen	Poletimber Well	44.8	45	Unspecified	N/A	Flat Rock TS 1976. Extreme amount of mortality in BF/WS 1-5" dbh																																														
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10	4130 - Aspen	Poletimber Well	23.8	54	Unspecified	N/A	Almost no merchantable conifer alive, much debris on ground.																																														
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11	4130 - Aspen	Sapling Well	68.8	6	Immature	N/A	Trace residual white pine and oak log sized trees. Swamp V cut Dec 2014. Quite a few red oak saplings coming in along the main road.																																														
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12	4130 - Aspen	Sapling Well	37.5	16	Immature	N/A	Twin Peaks TS 2005. Some oak saplings coming in with aspen.																																															
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13	6122 - Black Spruce	Poletimber Well	35.6	57	Unspecified	N/A	BS has tops breaking off. ELB (eastern larch beetle) not far away. Buffer is drawn in site condition.																																															
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14	6122 - Black Spruce	Poletimber Well	100.0	88	Unspecified	N/A	Swamp V TS set up in 2013, only about 7 acres were actually cut. Dwarf mistle toe was fairly aggressive further east of stand. Headwaters of Little Brook are within this stand.																																															
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16	4133 - Aspen, Mixed Pine	Sawtimber Well	60.2	54	Unspecified	N/A	Much of the merchantable spruce/fir are dead from SBW and approximately 40% of submerchantable BF is dead also.																																															
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17	4133 - Aspen, Mixed Pine	Sapling Well	22.0	9	Immature	N/A	Part of Dog Leg TS cut 2012: North half of stand heavier to WP/RP poles, with logs																																																				
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18	4119 - Mixed Northern Hardwoods	Poletimber Well	9.4	90	81-110	N/A	Could use a light thin. Top of hill on southwest is big tooth aspen to go with adjacent stand.																																																				
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19	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	119.3	90	111-140	N/A	Most of BF dead from SBW; fair amount of submerchantable BF/WS on ground from SBW or heavy snow & ice. White pine dbh ranges from 6-20"; WB ranges from 6-16", RM ranges from 6-12". Overall BAs range from 80-180.																																																				
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20	4119 - Mixed Northern Hardwoods	Poletimber Well	12.7	90	81-110	N/A	total BA 106. Not a high quality stand, has a lot of defect. WB is breaking up. Recommend light thinning to 60-70 BA, leave pine. Noted a trace of red pine.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	4130 - Aspen	Sapling Well	25.2	7	Immature	N/A	Swamp V TS cut 9/2014.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		80	Sapling	1	7				
Red Maple		15	Sapling	1					
White Pine		5	XLog/Log	18					
23	6120 - Lowland Cedar	Poletimber Well	146.4	88	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack		10	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Black Spruce		25	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		55	Pole/Log	8	88				
24	6120 - Lowland Cedar	Poletimber Well	69.9	88	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir		10	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Black Spruce		25	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		55	Pole/Log	8	88				
25	4136 - Aspen, Mixed Conifer	Poletimber Well	163.5	35	Immature	N/A	Blazed Trail TS cut 1986. SBW impacting BF/WS but not too much mortality yet. Some WP, cherry, BS in openings. JP in far north tip. RP ridge in far north finger. More conifer in overstory in north half of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole	7	35	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		7	Pole/Sapling	5		White Spruce	Low	Variable	Sapling
White Spruce		8	Pole/Sapling	5					
Red Pine		5	Log	16					
Bigtooth Aspen		10	Pole	7					
White Pine		5	Log	16					
26	6120 - Lowland Cedar	Sawtimber Medium	9.1	94	Unspecified	N/A	BS on north is dying (did not note dwarf mistletoe). WC is more central in the stand.		
Canopy Species		% Cover	Size Class	DBH	Age				
Northern White Cedar		65	Log/Pole	10	94				
Black Spruce		35	Pole	7					
27	622 - Lowland Shrub	Nonstocked	91.3		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
28	6122 - Black Spruce	Poletimber Medium	65.6	87	Unspecified	N/A	Cedar more along edges of stand. BS in center is breaking up as it is very wet.																																															
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29	4133 - Aspen, Mixed Pine	Sapling Well	26.5	3	Immature	N/A	581 SBW Timber Sale (12-029), cut 10/2018																																															
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31	4119 - Mixed Northern Hardwoods	Sawtimber Well	61.0	90	81-110	N/A	Balsam Hardwood thinned 2004. Stand was split on 1/14/2020 to be separate from MWR job within stand																																															
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32	4117 - Mixed N. Hardwood - Pine	Sawtimber Poor	27.4	95	1-50	N/A	Toe Jam MWR TSexperiment. 10-20 BA. Full raspberry understory																																															
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33	4139 - Aspen, Mixed Deciduous	Sawtimber Well	10.0	58	Unspecified	N/A	Ready for harvest																																															
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34	4130 - Aspen	Sapling Well	76.5	9	Immature	N/A	This stand is the Dog Leg TS cut 2012(additional acres POW 2010); Several lower pockets left for retention. Pocket of hardwood left near private. Some pockets of bent over aspen from ice and heavy snow winter 2019-20.																																															
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37	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.1	73	51-80	N/A	This was left for retention for cut to east due to steep hill and trout stream buffer.																																															
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40	622 - Lowland Shrub	Nonstocked	15.3		Unspecified	No																																															
41	4130 - Aspen	Sapling Well	27.9	7	Immature	N/A	Bear Annex TS cut 2014. South has retention 300' from river.																																														
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42	6120 - Lowland Cedar	Sawtimber Well	16.8	95	Unspecified	N/A	Black spruce is small diameter. 95% submerch. BF/WS dead in understory. Intermittent sheet flow through this stand.																																														
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43	4130 - Aspen	Poletimber Well	29.6	33	Immature	N/A	Pryal TS cut 1988. South half of stand much heavier to BF/WS with aspen dbhs smaller (4-6"). North half on knob, heavier to pure aspen with dbhs 5-9".																																														
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400	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No																										