



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12028

Entry Year 2023

Acreage: 3,348

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T44N R27W Sec 19-21, 23-30, 32-34

Identified Planning Goals:

Optimize sustainable timber production, enhance wildlife habitat and protect riparian areas.

Soil and topography:

The majority of the upland is dominated by Emmet fine sandy loams. This soil type is well drained. Other minor upland soils include Pemene fine sandy loam, and Mancelona loamy sand. Topography is gently rolling hills.

Lowland types are primarily Cathro mucks, with some Greenwood & Dawson peats.

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

Predominantly state-owned land with private parcels mixed within. This compartment is used by hunters, fishermen, campers, and trappers. State land surrounds most of the compartment boundary with Marquette county bordering the East.

Unique Natural Features:

North Branch of Ford River, Ford River, Bear Creek, and Safford Creek are present within this compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Obligate Deer Wintering Range.

Watershed and Fisheries Considerations:

This compartment is divided into four sections containing Stafford Creek, Bear Creek, the Ford River, and the North Branch of the Ford River. Stafford Creek is a non-designated stream less than 50' width and has a predicted mean July temperature of 63.5 °F (cold stream). A 300' buffer is recommended for Stafford 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.

Bear Creek, the Ford River, and the North Branch of the are all designated Type 1 trout streams less than 50' width and have predicted mean July temperatures that range from 63.3 to 68.5 °F (cold and cool 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:

This compartment is part of the Ford River Deeryard. Maintenance and enhancement of both the existing lowland conifer stands and the upland conifer component is critical to support healthy deer numbers, in the area. 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 closest active sand/gravel pit is the State-owned Buckler Road Pit, roughly two miles to the north, which is currently leased to the County Road Commission. There may be some potential for sand & gravel within the compartment on the upland drumlins. The compartment is more than three miles from any past metallic mineral exploration or mining activity. There is no known iron ore potential beneath the compartment. Potential for other metallic minerals is unknown but is considered low at this time.

There is current metallic mineral leasing activity four miles to the northeast. 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:

County Road 426 is the primary access; the Schultz Road and a few other woods roads are on State land for access. Portions of the State land in this compartment will need to be accessed via private property.

Survey Needs:

Survey needs will be required.

Recreational Facilities and Opportunities:

Opportunities for hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection:

Felch protection area. Access to most upland stands is poor to fair, access to some swamp types would be difficult.

Additional Compartment Information:

The following reports from the Inventory are attached:

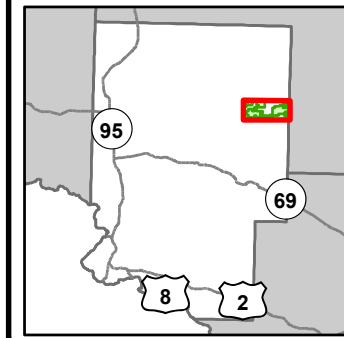
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

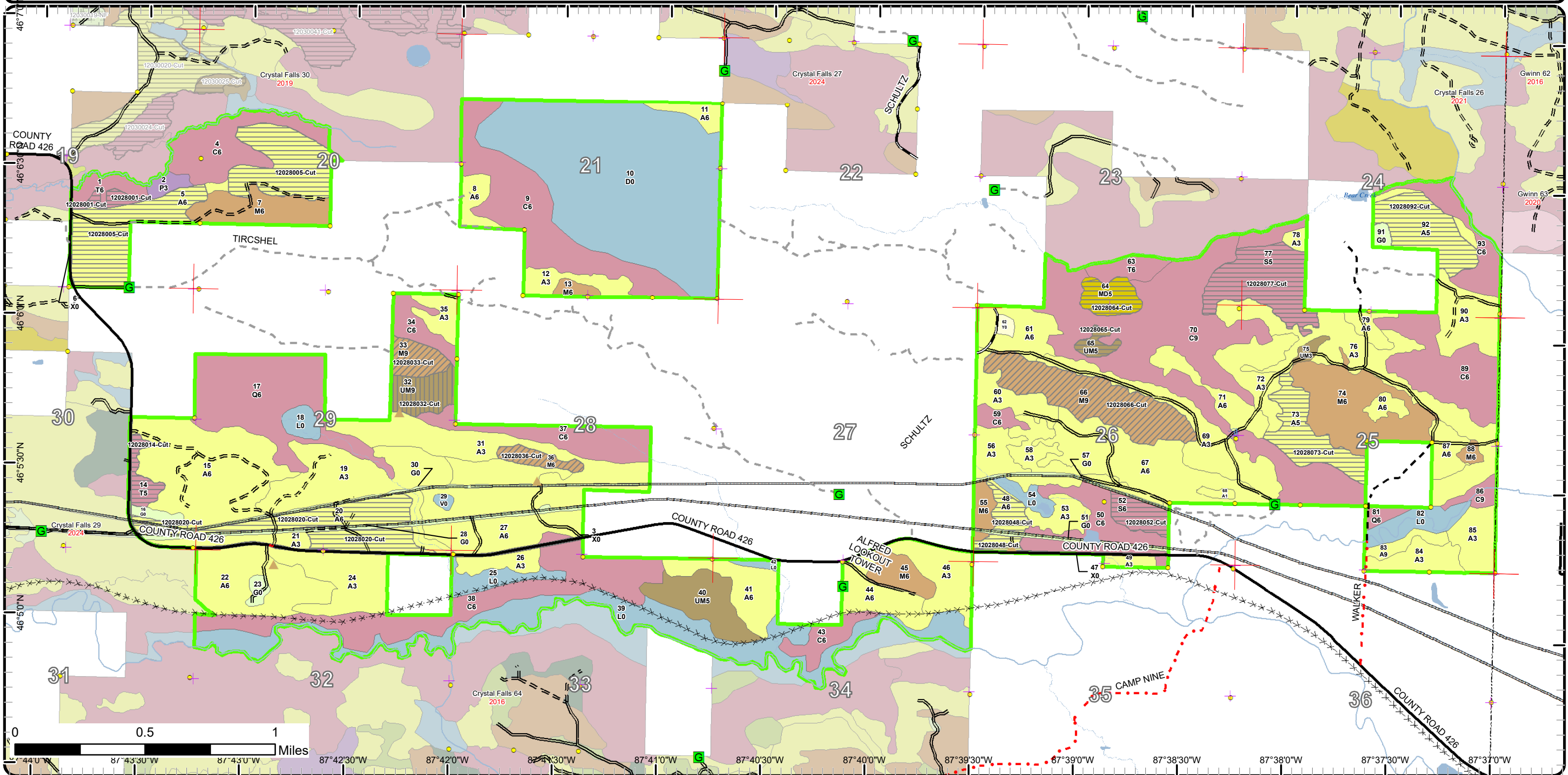
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 28
 T43N, R27W, Sec. 19-21, 23-30,
 32-34
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 3347.7 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 12/28/2021
 Map Phase: Post-Review

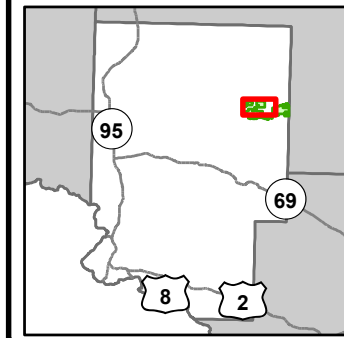


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Gravel Road
- - Private - Dirt / Gravel Road
- * - Abandoned Railroads
- ▲ Berms
- Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand/Soil

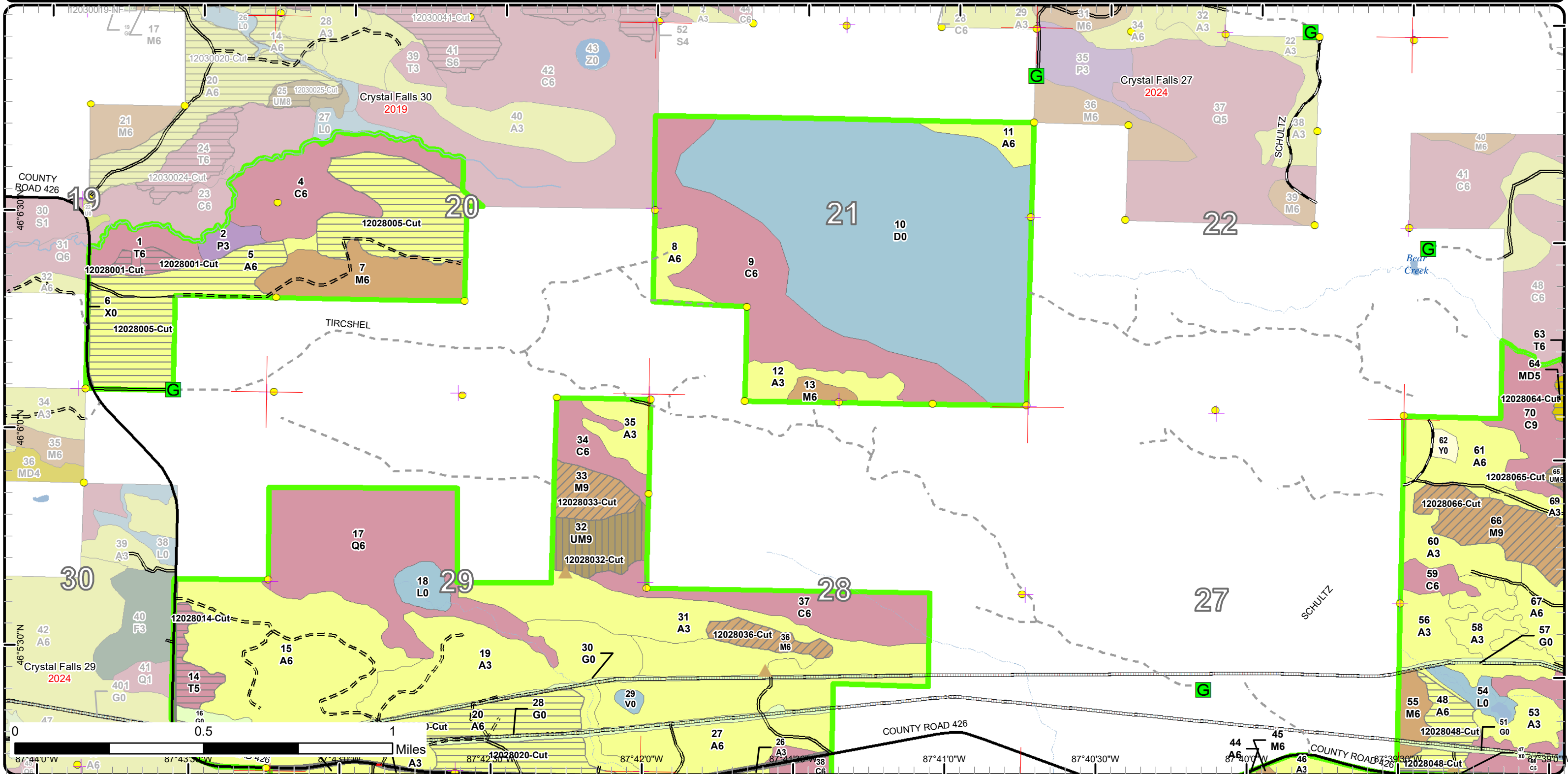


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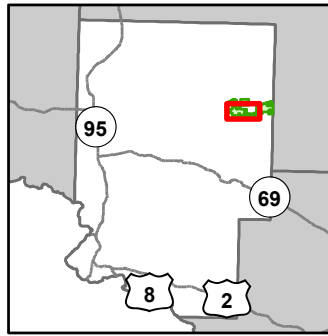


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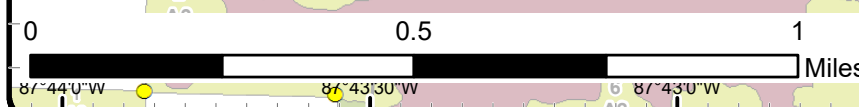
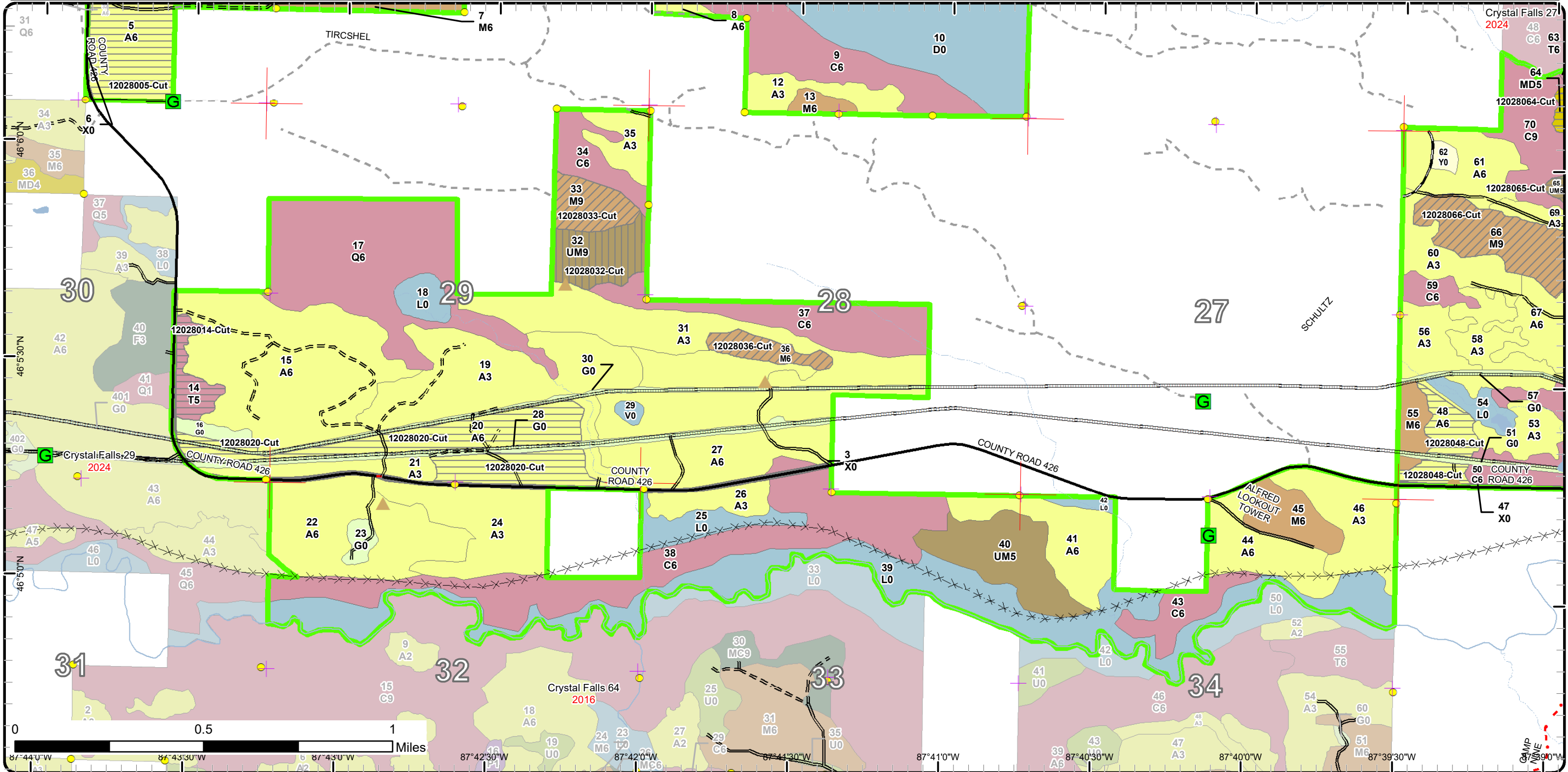


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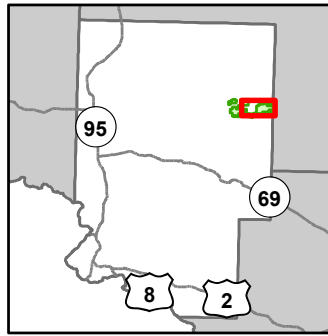
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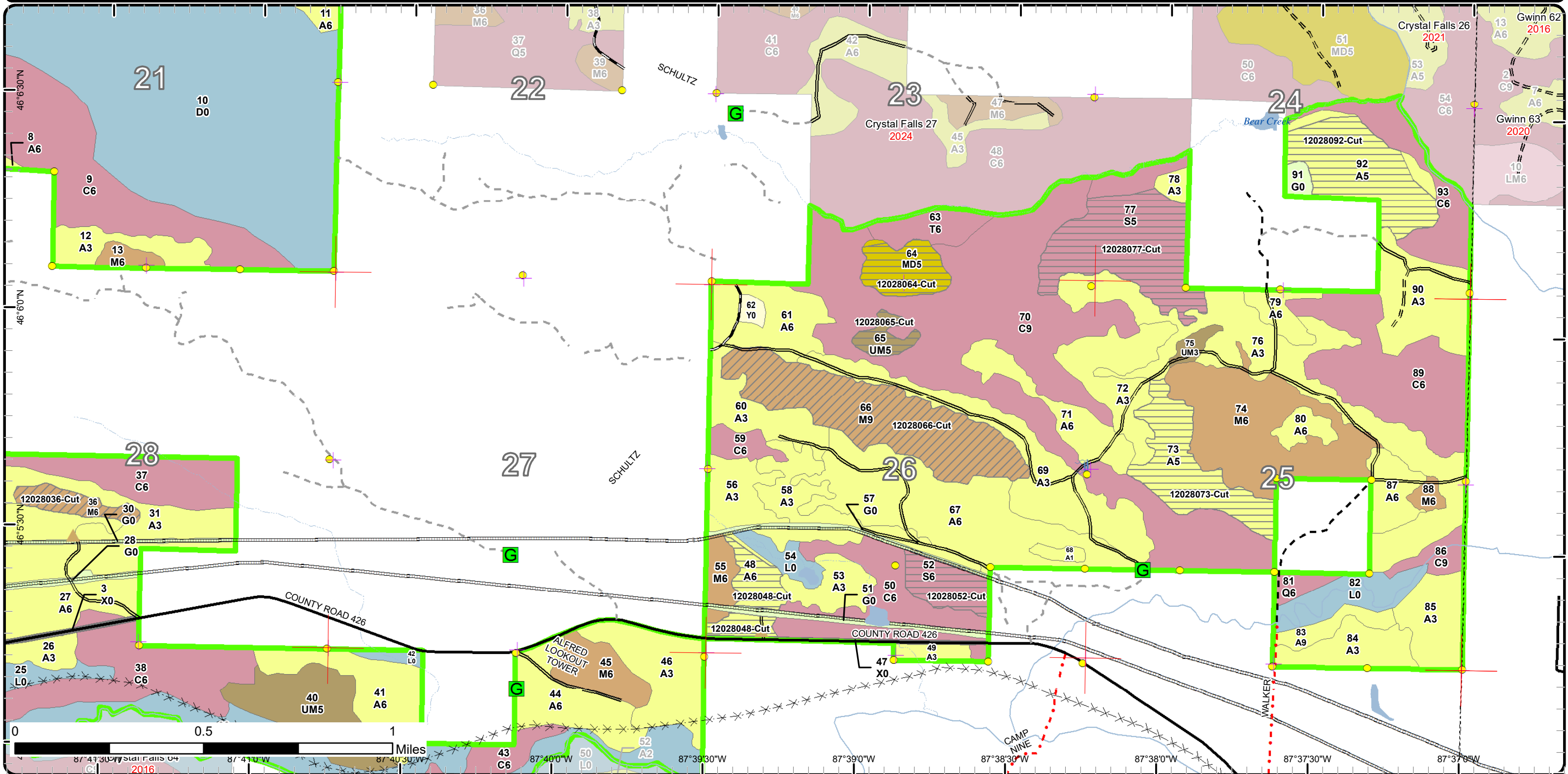
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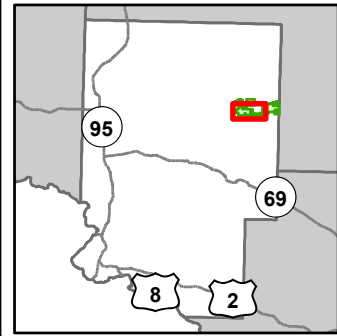


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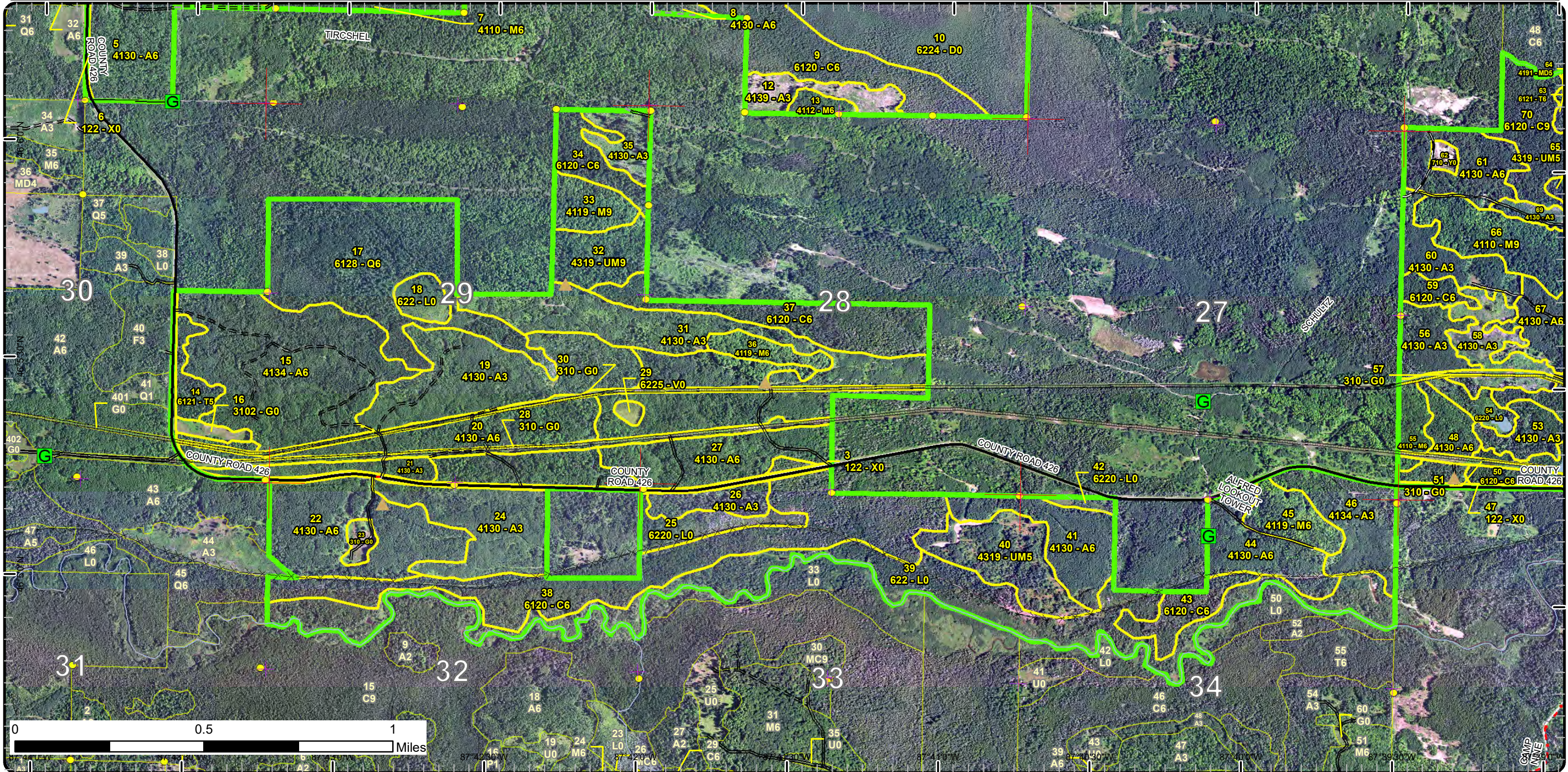


Stand Boundary Map

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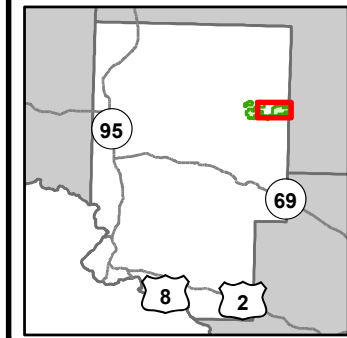


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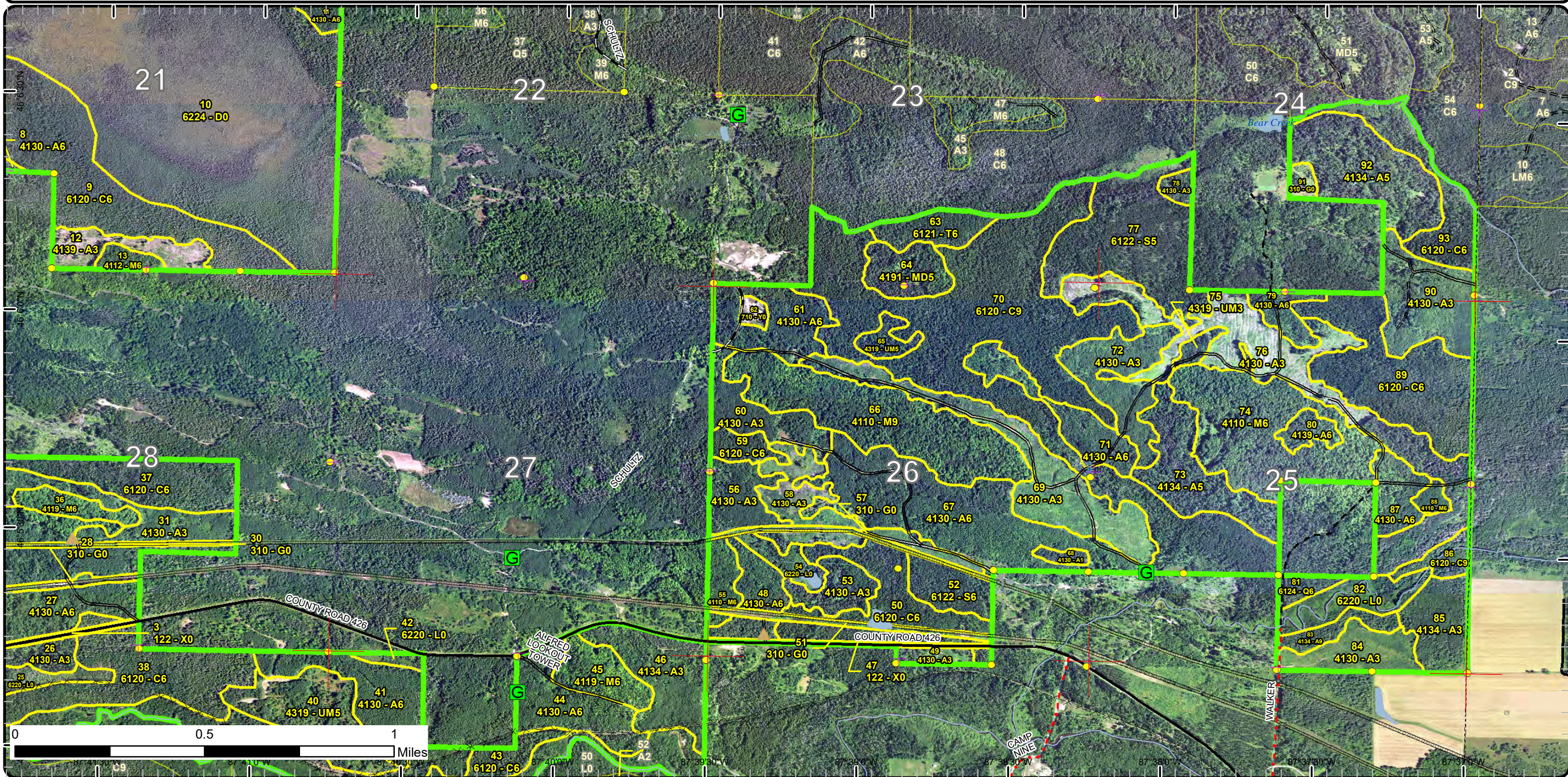


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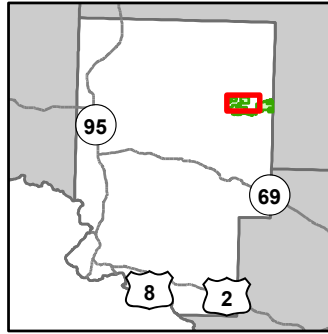


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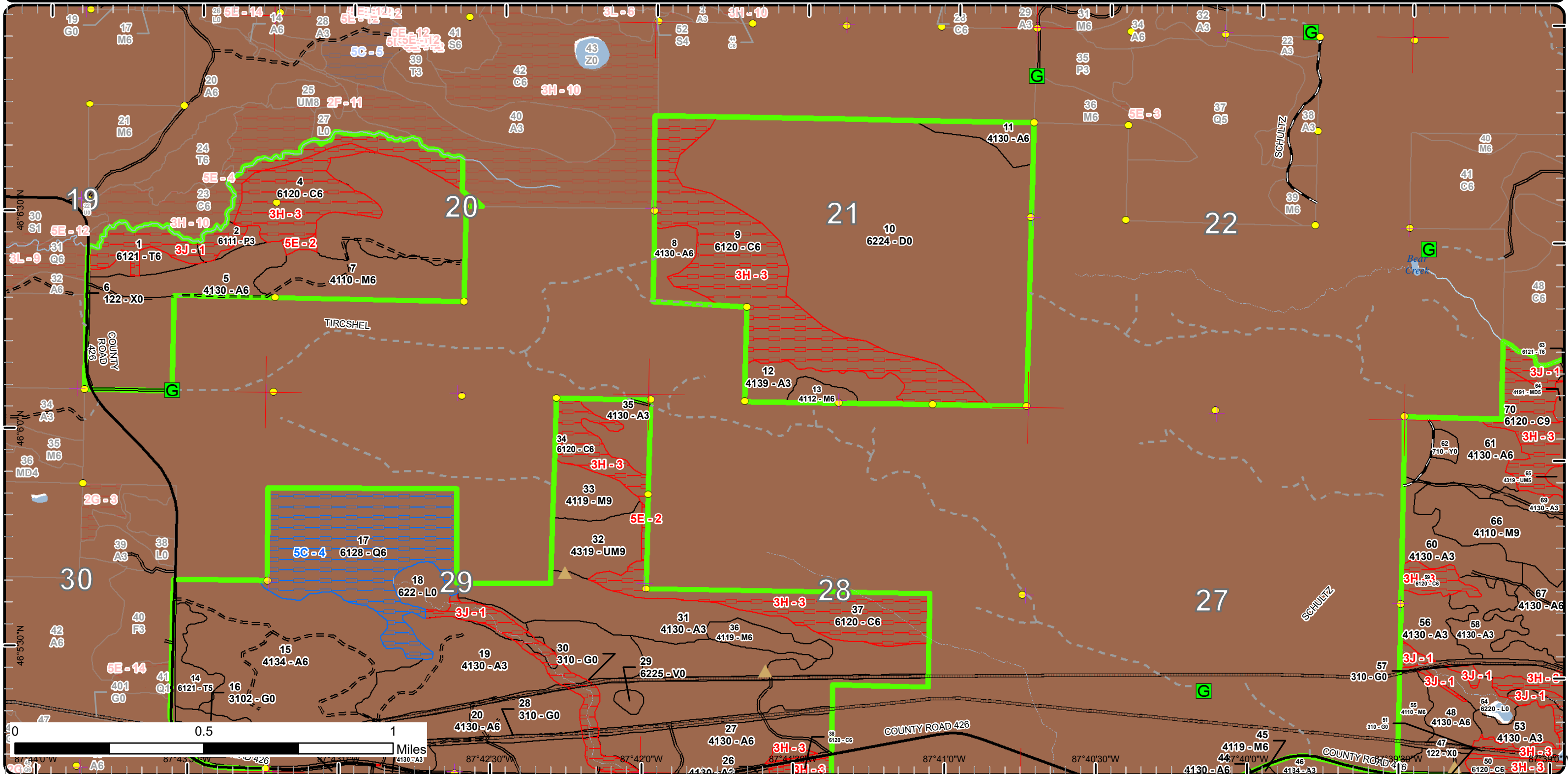


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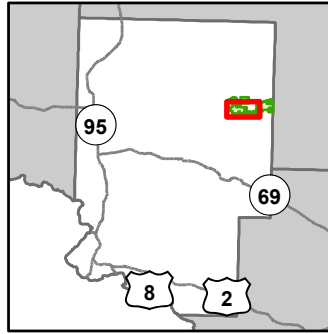


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range

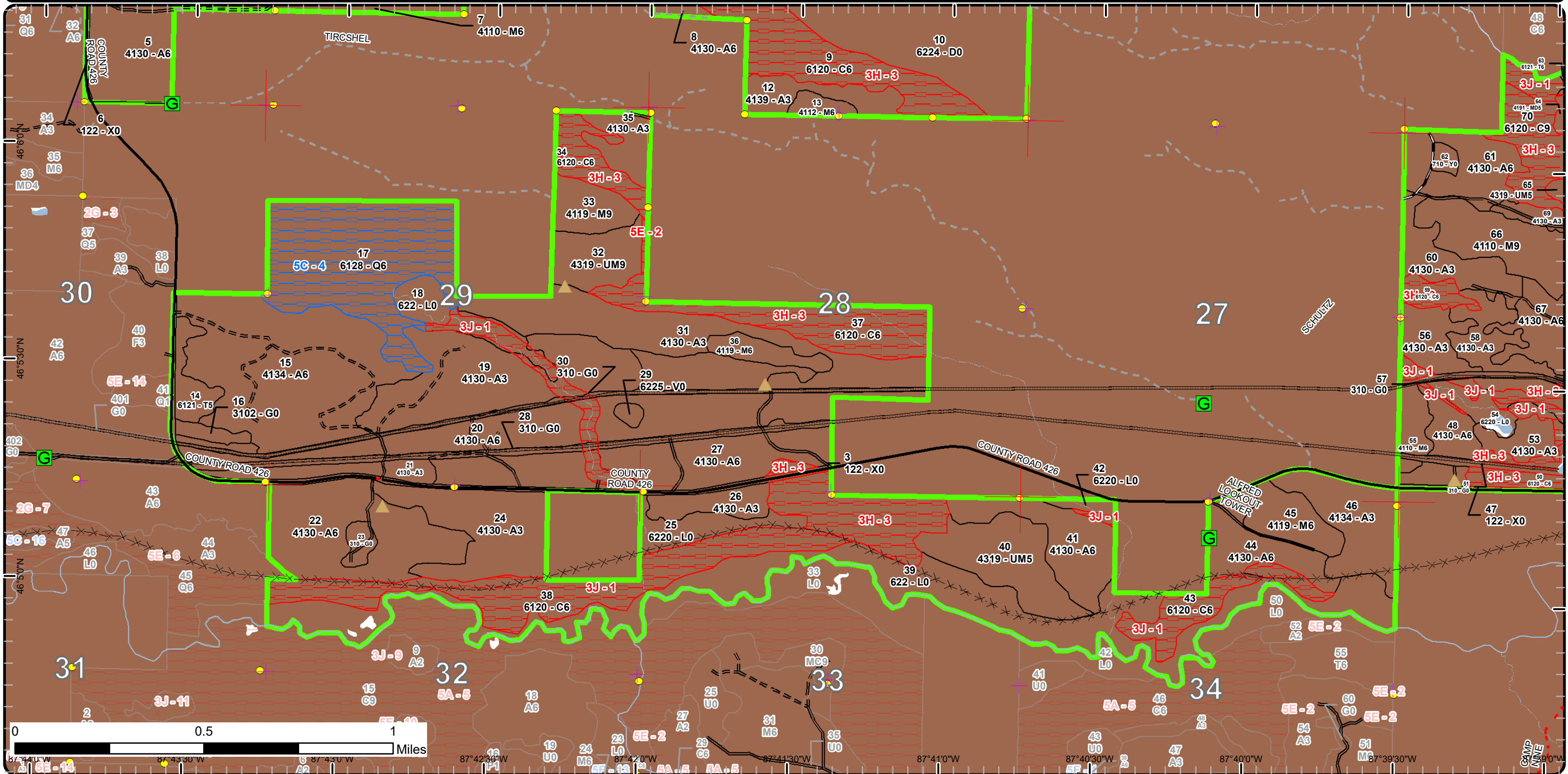


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Report 1 – Total Acres by Cover Type and Age Class



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	266	184	188	458	104	87	197	0	0	0	0	0	0	0	0	0	0	1483
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	181	268	259	0	0	0	0	0	708
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Aspen/Balsam Poplar	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	6	0	0	106	0	0	0	0	0	0	0	112
Lowland Shrub	190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	81
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	240	10	0	0	0	0	0	0	250
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Tamarack	0	0	0	0	0	0	15	0	0	20	11	0	0	0	0	0	0	0	46
Treed Bog	290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290
Upland Mixed Forest	0	0	4	0	0	39	0	0	0	7	24	0	0	0	0	0	0	0	74
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	568	273	188	188	458	143	102	203	0	126	562	278	259	0	0	0	0	0	3347



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 28
Total Compartment Acres: 3,348

Commercial Harvest - 514
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	276	0	0	0	0	0	0	0	0	276
Lowland Spruce/Fir	73	0	0	0	0	0	0	0	0	73
Mixed Upland Deciduous	18	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	101	0	0	0	101
Tamarack	18	0	0	0	0	0	0	0	0	18
Upland Mixed Forest	7	0	0	0	22	0	0	0	0	29
Total	391	0	0	0	22	101	0	0	0	514

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	514	0	0	0	0	0	0	0	0	514
Next Step	0	0	0	0	0	0	413	0	0	413
Total	514	0	0	0	0	0	413	0	0	927



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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	12028001-Cut	6.6	6121 - Tamarack	Poletimber Well	88	Unspecified	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Buffer creek 300 feet. Install Wildlife corridor within stand.</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> Tamarack, Mixed Conifers, Mixed Hardwoods</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>											
5	12028005-Cut	115.0	4130 - Aspen	Poletimber Well	64	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Also, retain a few Maples in NE part of stand for diversity.</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 Hardwoods, Mixed Conifers</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>											
14	12028014-Cut	11.0	6121 - Tamarack	Poletimber Medium	94	Unspecified	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found.</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> Tamarack, Mixed Hardwood, Mixed Conifer</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
20 12028020-Cut	62.0	4130 - Aspen	Poletimber Well	60	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Buffer creek on far East 100 feet. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, Mixed Hardwood, Mixed Conifer <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
32 12028032-Cut	22.0	4319 - Mixed Upland Forest	Sawtimber Well	97	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine. Resulting stand will resemble a shelterwood harvest. Install Wildlife corridor along Eastern edge of stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, Mixed Hardwood, Mixed Conifer <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
33 12028033-Cut	16.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	94	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Thin targeting 70 residual Basal Area. Leave Pine, Cedar, Hemlock if found. <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 /2022										
36 12028036-Cut	10.9	4119 - Mixed Northern Hardwoods	Poletimber Well	99	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Thin targeting 80 residual Basal Area. Leave Pine, Cedar, Hemlock if found. <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 /2022										

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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
48	12028048-Cut	16.8	4130 - Aspen	Poletimber Well	49	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Buffer creek 100 feet. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Mixed Hardwood, Mixed Conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											
52	12028052-Cut	16.2	6122 - Black Spruce	Poletimber Well	84	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Spruce, Aspen, Mixed Hardwood, Mixed Conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											
64	12028064-Cut	17.7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	88	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Buffer creek 300 feet. Windrow slash for rabbit habitat. No new roads into stand, skid trails only. Work with WLD to install skid trail into stand avoiding Cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Mixed Hardwoods, Mixed Conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											
65	12028065-Cut	7.2	4319 - Mixed Upland Forest	Poletimber Medium	87	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Install brush piles for rabbit habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Mixed Hardwood, Mixed Conifer <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022											

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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
66 12028066-Cut	73.8	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin targeting 70 residual Basal Area. Leave Pine, Cedar, Hemlock if found.</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 /2022</p>										
73 12028073-Cut	38.0	4134 - Aspen, Spruce/Fir	Poletimber Medium	59	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found.</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 Hardwood, Mixed Conifers</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>										
77 12028077-Cut	56.6	6122 - Black Spruce	Poletimber Medium	84	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Final harvest using 2" spec due to Eastern Dwarf Mistletoe infestation. Leave Cedar, Hemlock, Pine if found. Buffer creek 300 feet.</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> Spruce, Tamarack, Mixed Hardwoods, Mixed Conifers</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>										
92 12028092-Cut	43.7	4134 - Aspen, Spruce/Fir	Poletimber Medium	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Hemlock, Pine if found. Buffer creek 300 feet.</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 Hardwoods, Mixed Conifers</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
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Total Treatment Acreage Proposed: 514.2

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 28
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3H	3J	5E
1479	1425	0	54	Aspen			48	6
2	2	0	0	Bog				
707	0	0	707	Cedar		542	164	
61	59	0	1	Herbaceous Openland			1	
7	2	0	5	Lowland Aspen/Balsam Poplar			5	
112	4	95	13	Lowland Conifers	95		13	
190	190	0	0	Lowland Shrub			0	
81	73	0	9	Lowland Spruce/Fir			9	
18	18	0	0	Mixed Upland Deciduous			0	
250	250	0	0	Northern Hardwood				
3	3	0	0	Sand, Soil				
46	18	0	28	Tamarack		2	26	
290	290	0	0	Treed Bog				
74	73	0	1	Upland Mixed Forest				1
23	23	0	0	Urban			0	
3,343	2,430	95	818	Total Forested Acres	95	545	266	7
	73%	3%	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)	285	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 28
Year of Entry: 2023

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	545	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Obligate Deer winter area.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Possibly harvest next entry when treating adjacent stand. Stream within stand.							

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	6121 - Tamarack	Poletimber Well	20.3	88	Unspecified	N/A	West 1/2 of stand is more variable with BF, WC, smaller diameter BS, smaller DBH trees, and more tag.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>27</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>3</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>65</td> <td>Pole</td> <td>7</td> <td>88</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	5	Pole	7		Black Spruce	27	Pole	8		Northern White Cedar	3	Pole	9		Tamarack	65	Pole	7	88	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	Variable	Sapling											
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2	6111 - Lowland Balsam Poplar	Sapling Well	7.0	5	Immature	N/A	Salvaged 2016 due to Spruce Budworm concerns.																																								
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3	122 - Road/Parking Lot	Nonstocked	16.0	0	Unspecified	No																																									
4	6120 - Lowland Cedar	Poletimber Well	52.7	115	Unspecified	N/A																																									
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5	4130 - Aspen	Poletimber Well	116.9	64	Unspecified	N/A	Spruce and Fir salvaged from stand in 2017.																																								
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6	122 - Road/Parking Lot	Nonstocked	2.0	0	Unspecified	No																																									
7	4110 - Sugar Maple Association	Poletimber Well	38.7	94	81-110	N/A	Thinned 2016																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Poletimber Well	13.0	36	Unspecified	N/A	Tam, WS, RM, smaller Aspen in South 1/3 of stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole	5	36	Balsam Fir	
White Spruce		5	Sapling	3		White Spruce	
Tamarack		10	Sapling	3		Hazelnut (Beaked)	
						Density	Avg. Height
							Size
9	6120 - Lowland Cedar	Poletimber Well	101.1	99	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Pole	9		Tag Alder	
Northern White Cedar		70	Pole	9	99		
Tamarack		10	Pole	9			
						Density	Avg. Height
							Size
10	6224 - Treed Bog	Nonstocked	289.7		Unspecified	No	
11	4130 - Aspen	Poletimber Well	11.3	35	Unspecified	N/A	Cut in 1986
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	7		Hazelnut (Beaked)	
Quaking Aspen		95	Pole	7	35		
						Density	Avg. Height
							Size
12	4139 - Aspen, Mixed Deciduous	Sapling Well	18.0	5	Immature	N/A	Harvested 2016
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Sapling	1		Blackberry/Raspberry	
Northern White Cedar		5	Pole	8			
Quaking Aspen		40	Sapling	1	5		
Balsam Poplar		35	Sapling	1			
						Density	Avg. Height
							Size
13	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	98	81-110	N/A	Thinned 2016.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Pole	9	98	White Spruce	
Red Maple		20	Pole/Log	9		Hazelnut (Beaked)	
Paper Birch		15	Log/Pole	10			
White Spruce		5	Log	12			
						Density	Avg. Height
							Size
14	6121 - Tamarack	Poletimber Medium	11.0	94	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		8	Pole	7		Balsam Fir	
Black Spruce		2	Pole	8		Black Spruce	
Northern White Cedar		20	Pole	7		Tag Alder	
Tamarack		70	Pole	7	94		
						Density	Avg. Height
							Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	4134 - Aspen, Spruce/Fir	Poletimber Well	112.4	35	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	75	Pole/Sapling	5	35
Balsam Fir	15	Pole/Sapling	5	
White Spruce	5	Pole/Sapling	5	
Tamarack	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	< 5 feet	Sapling
Black Spruce	Medium	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

16	3102 - Grass	Nonstocked	4.6		Unspecified	No	
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17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	105.8	99	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole	8	
Northern White Cedar	40	Pole	8	99
Tamarack	20	Pole	8	
Black Ash	20	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub

18	622 - Lowland Shrub	Nonstocked	9.4		Unspecified	No	
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19	4130 - Aspen	Sapling Well	74.2	25	Unspecified	N/A	Harvested 1996.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	2	25
Balsam Fir	5	Sapling	3	
Black Spruce	2	Sapling	2	
Tamarack	3	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	Medium	< 5 feet	Sapling
Black Spruce	Medium	< 5 feet	Sapling

20	4130 - Aspen	Poletimber Well	70.2	60	Unspecified	N/A	Small area of planted Spruce in understory, mostly dead due to Spruce Budworm damage.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	11	
Quaking Aspen	65	Pole/Log	9	60
Balsam Fir	5	Pole	8	
White Spruce	10	Pole	9	
Balsam Poplar	5	Pole/Log	9	
Sugar Maple	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
21	4130 - Aspen	Sapling Well	14.0	28	Unspecified	N/A	Harvested 1994.																																							
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22	4130 - Aspen	Poletimber Well	63.6	46	Unspecified	N/A																																								
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23	310 - Herbaceous Openland	Nonstocked	5.0		Unspecified	No																																								
24	4130 - Aspen	Sapling Well	46.7	14	Unspecified	N/A	Harvested 2006. Black Ash, and Cedar throughout.																																							
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25	6220 - Alder/willow	Nonstocked	16.6		Unspecified	No																																								
26	4130 - Aspen	Sapling Well	13.9	4	Immature	N/A	Harvested 2017.																																							
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27	4130 - Aspen	Poletimber Well	101.9	35	Unspecified	N/A	Harvested 1986.																																							
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28	310 - Herbaceous Openland	Nonstocked	19.0		Unspecified	No																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 6225 - Bog Nonstocked 2.4 Unspecified No

30 310 - Herbaceous Openland Nonstocked 14.2 Unspecified No

31 4130 - Aspen Sapling Well 66.8 14 Unspecified N/A Harvested 2006.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	2	14	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling	2					
White Pine	5	XLog	20					

32 4319 - Mixed Upland Forest Sawtimber Well 23.5 97 141-170 N/A Cedar and Hemlock mixed throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	10	97	Red Maple	Medium	Variable	Sapling
Yellow Birch	5	Pole	8					
Paper Birch	15	Pole/Log	9					
Quaking Aspen	2	Log	12					
Northern White Cedar	15	Log/Pole	10					
White Pine	15	Log	14					
Hemlock	20	Log/Pole	10					
Black Ash	3	Pole	7					

33 4119 - Mixed Northern Hardwoods Sawtimber Well 16.7 94 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	14	94	Sugar Maple	High	Variable	Sapling
Red Maple	15	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Yellow Birch	5	Log/Pole	10		White Spruce	Low	< 5 feet	Sapling
Basswood	5	Log/Pole	12		Ironwood	Medium	Variable	Sapling
White Ash	25	Log/Pole	12		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Paper Birch	6	Pole/Log	9		Leatherwood	Low	< 5 feet	Tall Shrub
White Pine	2	XLog	20					
Hemlock	2	Log	10					

34 6120 - Lowland Cedar Poletimber Well 18.0 108 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Log	8					
Northern White Cedar	80	Pole/Log	10	108				
Tamarack	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4130 - Aspen Sapling Well 14.9 6 Immature N/A Harvested 2015

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	1	6
Northern White Cedar	5	Pole/Log	9	
White Pine	5	Log	14	
Hemlock	5	Log	10	

36 4119 - Mixed Northern Hardwoods Poletimber Well 10.9 99 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	9	99	White Spruce	Medium	Variable	Sapling
Red Maple	20	Pole	8		Ironwood	Low	Variable	Sapling
Basswood	10	Log/Pole	10					
White Ash	5	Pole/Log	9					
Paper Birch	10	Log/Pole	9					
White Pine	5	XLog	20					

37 6120 - Lowland Cedar Poletimber Well 45.2 98 Unspecified N/A Black Ash swales/drainages are present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log/Pole	11		Red Maple	Low	Variable	Sapling
Paper Birch	13	Pole/Log	9		Paper Birch	Low	Variable	Sapling
Balsam Fir	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Black Spruce	10	Pole	9		Black Ash	Low	Variable	Sapling
Northern White Cedar	60	Pole/Log	10	98				
Tamarack	10	Pole	9					

38 6120 - Lowland Cedar Poletimber Well 110.5 103 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Paper Birch	Medium	Variable	Sapling
Balsam Poplar	5	Log	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce	5	Log/Pole	11					
Northern White Cedar	65	Pole	10	103				
Black Ash	15	Pole/Sapling	7					

39 622 - Lowland Shrub Nonstocked 130.4 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	4319 - Mixed Upland Forest	Poletimber Medium	39.3	40	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Pole/Sapling	6	40	Balsam Fir	
Balsam Poplar		12	Pole	6		Hazelnut (Beaked)	
Balsam Fir		20	Pole/Sapling	5		Density	
White Spruce		25	Pole/Sapling	5		Avg. Height	
Black Cherry		3	Pole/Sapling	5		Size	
						Sapling	
						Tall Shrub	
41	4130 - Aspen	Poletimber Well	34.9	35	Unspecified	N/A	Harvested 1986.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Sapling	5	35	Balsam Fir	
Balsam Fir		10	Pole/Sapling	5		Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
42	6220 - Alder/willow	Nonstocked	3.5		Unspecified	No	
43	6120 - Lowland Cedar	Poletimber Well	17.6	99	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Log/Pole	12		Balsam Fir	
Northern White Cedar		60	Pole	9	99	Tag Alder	
Tamarack		35	Pole	9		Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
44	4130 - Aspen	Poletimber Well	32.1	38	Unspecified	N/A	Harvested 1983
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Sapling	6	38	Balsam Fir	
Balsam Fir		10	Pole	5		White Spruce	
						Hazelnut (Beaked)	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Tall Shrub	
45	4119 - Mixed Northern Hardwoods	Poletimber Well	18.5	98	81-110	N/A	Very steep.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		25	Pole	7		Balsam Fir	
Red Maple		10	Pole	8		Hazelnut (Beaked)	
Basswood		40	Log/Pole	12	98	Leatherwood	
Paper Birch		20	Pole/Log	9		Density	
Quaking Aspen		5	Log	12		Avg. Height	
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						Sapling	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
46	4134 - Aspen, Spruce/Fir	Sapling Well	35.4	27	Unspecified	N/A	Harvested 1994. North portion of this stand was acquired in 2006. Residual WS along road.																																							
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47	122 - Road/Parking Lot	Nonstocked	4.8	0	Unspecified	No																																								
48	4130 - Aspen	Poletimber Well	17.7	49	Unspecified	N/A	Majority of Spruce and Fir in understory has died out due to Spruce Budworm damage.																																							
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50	6120 - Lowland Cedar	Poletimber Well	41.9	104	Unspecified	N/A	smaller trees. Wet.																																							
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51	310 - Herbaceous Openland	Nonstocked	7.8		Unspecified	No																																								
52	6122 - Black Spruce	Poletimber Well	16.2	84	Unspecified	N/A	Small upland inclusion on East side of stand.																																							
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53	4130 - Aspen	Sapling Well	14.8	5	Immature	N/A	Harvested 2016.																																																						
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54	6220 - Alder/willow	Nonstocked	9.2		Unspecified	No																																																							
55	4110 - Sugar Maple Association	Poletimber Well	10.3	101	81-110	N/A	Thinned 2016																																																						
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56	4130 - Aspen	Sapling Well	18.5	25	Unspecified	N/A	Harvested 1995.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61 4130 - Aspen Poletimber Well 29.8 37 Unspecified N/A There are some larger, older Aspen on South edge of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	4		Sugar Maple	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	65	Pole/Sap/Log	5	37	White Spruce	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6					
Balsam Poplar	10	Pole/Sapling	5					

62 710 - Sand, Soil Nonstocked 3.2 Unspecified No Gravel pit

63 6121 - Tamarack Poletimber Well 14.8 58 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	5		Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Log/Pole	11					
Tamarack	80	Pole/Sapling	5	58				

64 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 18.1 88 51-80 N/A Small upland island in Cedar stand. Not fully stocked due to small openings and Spruce Budworm mortality on conifers. Eastern portion has small Ash inclusion and well stocked Maple advanced regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	9		Balsam Fir	High	Variable	Sapling
Black Spruce	10	Pole	8		Black Ash	Low	Variable	Sapling
Northern White Cedar	5	Pole	7		Black Spruce	High	Variable	Sapling
Black Ash	5	Pole/Sapling	7		Sugar Maple	Medium	Variable	Sapling
Balsam Poplar	5	Log/Pole	10					
Balsam Fir	10	Pole/Sapling	6					
Quaking Aspen	5	Pole/Log	9					
Red Maple	20	Pole/Log	8	88				
White Spruce	10	Log/Pole/Sap	10					
Black Cherry	5	Pole/Sapling	6					
White Pine	5	XLog	20					
Sugar Maple	15	Pole/Log/Sap	9					



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65	4319 - Mixed Upland Forest	Poletimber Medium	7.2	87	51-80	N/A	Small upland island in Cedar stand. Not fully stocked due to Spruce Budworm mortality on conifers. Birch in decline.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	4130 - Aspen	Poletimber Well	23.4	35	Unspecified	N/A	Harvested 1986.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	3	35	Balsam Fir	Medium Variable Sapling
Balsam Fir		5	Sapling	3		Hazelnut (Beaked)	Medium 5 - 10 feet Tall Shrub
72	4130 - Aspen	Sapling Well	32.5	16	Unspecified	N/A	Harvested 2005.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Sapling	3	16	Hazelnut (Beaked)	Low 5 - 10 feet Tall Shrub
Balsam Fir		5	Sapling	3			
73	4134 - Aspen, Spruce/Fir	Poletimber Medium	38.0	59	Unspecified	N/A	Many different ages and sizes of Aspen. Not fully stocked stand. Low lying areas within stand. Mortality observed on Spruce and Fir.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole/Log	8		Balsam Fir	Medium Variable Sapling
Quaking Aspen		40	Pole/Log	9	59	White Spruce	Medium Variable Sapling
Balsam Fir		15	Pole/Sap/Log	8			
White Spruce		15	Pole/Log	8			
Balsam Poplar		15	Pole/Log/Sap	9			
Sugar Maple		10	Pole	8			
74	4110 - Sugar Maple Association	Poletimber Well	71.9	94	81-110	N/A	Thinned 2018.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		40	Pole	8	94	Sugar Maple	Low Variable Sapling
Basswood		40	Log/Pole	10		Balsam Fir	Low Variable Sapling
Quaking Aspen		15	Log	14		Hazelnut (Beaked)	Low < 5 feet Tall Shrub
Black Spruce		5	Log	14		Leatherwood	Low < 5 feet Tall Shrub
75	4319 - Mixed Upland Forest	Sapling Well	4.2	16	51-80	N/A	Harvested 2004
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		51	Sapling	2	16	Hazelnut (Beaked)	Low < 5 feet Tall Shrub
White Spruce		49	Pole/Sapling	6			
76	4130 - Aspen	Sapling Well	89.5	3	Immature	N/A	Harvested 2018
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		100	Sapling	1	3	Blackberry/Raspberry	High 5 - 10 feet Tall Shrub
77	6122 - Black Spruce	Poletimber Medium	65.2	84	Unspecified	N/A	Much mortality due to Dwarf Mistletoe infestation.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		75	Pole/Sapling	5	84	Black Spruce	Medium Variable Sapling
Tamarack		15	Pole	8		Labrador Tea	Low < 5 feet Tall Shrub
Northern White Cedar		10	Pole	8		Balsam Fir	Medium Variable Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	4130 - Aspen	Sapling Well	4.1	34	Unspecified	N/A	Harvested 1987.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		93	Sapling/Pole	3	34	Hazelnut (Beaked)		Low	< 5 feet	Tall Shrub
Balsam Fir		2	Sapling	2						
Tamarack		5	Sapling	2						

79	4130 - Aspen	Poletimber Well	10.3	35	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
American Elm		10	Pole/Sapling	6		Balsam Fir		Low	5 - 10 feet	Sapling
Quaking Aspen		90	Pole	6	35	White Spruce		Low	5 - 10 feet	Sapling

80	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.2	47	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Pole	9	47	American Elm		Low	Variable	Sapling
Balsam Poplar		45	Pole	9		Red Maple		Low	Variable	Sapling
Black Ash		5	Pole	6		Blackberry/Raspberry		Low	< 5 feet	Tall Shrub

81	6124 - Lowland Spruce-Fir	Poletimber Well	6.1	66	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		15	Pole	8		Tag Alder		High	5 - 10 feet	Tall Shrub
Balsam Poplar		10	Pole/Log	9						
Balsam Fir		10	Pole/Log	9						
White Spruce		10	Pole	9						
Black Spruce		30	Pole	8	66					
Northern White Cedar		25	Pole/Log	10						

82	6220 - Alder/willow	Nonstocked	21.0		Unspecified	No	
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83	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.4	66	Unspecified	N/A	There are 2 Tag swales in SW corner of stand running N/S against PVT on south. Retention is 150-200 ft buffer along Ford River. Suggest winter cut as site is not great and this will allow stronger root suckering and protect lower spots.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole	7		Red Maple		Low	10 - 20 feet	Sapling
Paper Birch		5	Pole	6		Balsam Fir		Low	10 - 20 feet	Sapling
Quaking Aspen		50	Log/Pole	10	66	White Spruce		Low	10 - 20 feet	Sapling
Balsam Poplar		20	Log	12		Tag Alder		Medium	< 5 feet	Tall Shrub
Balsam Fir		10	Pole/Log	9		Hazelnut (Beaked)		Medium	< 5 feet	Tall Shrub
White Spruce		10	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
84	4130 - Aspen	Sapling Well	21.2	5	Immature	N/A	Stand harvested 2016.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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90 4130 - Aspen Sapling Well 37.8 16 Immature N/A Harvested 2005. Scattered pole-sized Spruce, Fir and Pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	3	16	White Spruce	Low	Variable	Sapling

91 310 - Herbaceous Openland Nonstocked 3.9 Unspecified No

92 4134 - Aspen, Spruce/Fir Poletimber Medium 48.8 53 Unspecified N/A Many different ages of Aspen. Much conifer mortality due to Spruce Budworm infestation.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole/Sap/Log	8	53	American Elm	Medium	Variable	Sapling
Balsam Poplar	15	Pole/Log/Sap	9		Quaking Aspen	Medium	Variable	Sapling
Balsam Fir	15	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
White Spruce	15	Pole/Log	9					
American Elm	5	Pole	6					
Basswood	5	Pole/Log	9					

93 6120 - Lowland Cedar Poletimber Well 30.4 108 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		American Elm	Medium	10 - 20 feet	Sapling
Balsam Poplar	30	Log	14		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	15	Pole	7		Quaking Aspen	Medium	10 - 20 feet	Sapling
Northern White Cedar	50	Pole/Log	9	108	Balsam Fir	Low	< 5 feet	Sapling
					Black Ash	Medium	10 - 20 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub