



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12020

Entry Year 2024

Acreage: 2,273

County Dickinson

Management Area: Ralph Ground Moraine

Stand Examiner: Andrew Church

Legal Description:

T44N R27W Sections 7, 8, 17-21, 29 T44N R28W Sections 12,13

Identified Planning Goals:

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

Soil and topography:

Soils are generally well drained fine sandy loams with areas of excessively drained fine sands. The topography is mostly rolling hills.

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

Blocks of private ownership are scattered within the compartment. Active forest management has occurred and will continue within and surrounding the compartment. Snowmobiling, hunting, camping and fishing are the main recreational use patterns.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The northern region of this compartment contains Little Brook. Cady Creek flows easterly through the central region of this compartment and the West Branch Escanaba River borders the southwestern region of this compartment.

Little Brook, Cady Creek, and the West Branch Escanaba River are all designated Type 1 trout streams and are less than 50' in width. 300' buffers are recommended for these waterbodies 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:

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, the state-owned Aimone Road Pit, is less than two miles to the southwest and is currently leased to the Dickinson County Road Commission. There is some good potential for sand & gravel within the compartment on the uplands. There has been limited, known metallic mineral exploration in this area, and the nearest past production is many miles away. Potential for metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current mineral leasing activity exists in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Excellent road system throughout entire compartment. Access is along County Roads 581 and Tower Rd. Many State forest poor dirt roads are also present.

Survey Needs:

Corners needed.

Recreational Facilities and Opportunities:

Snowmobile Trail #32 runs through compartment 20.

Fire Protection:

Felch Protection Area. Access for fire suppression in the more fire prone forest types is very good.

Additional Compartment Information:

The following reports from the Inventory are attached:

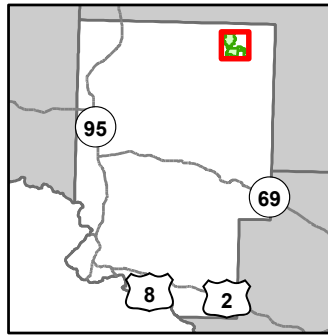
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

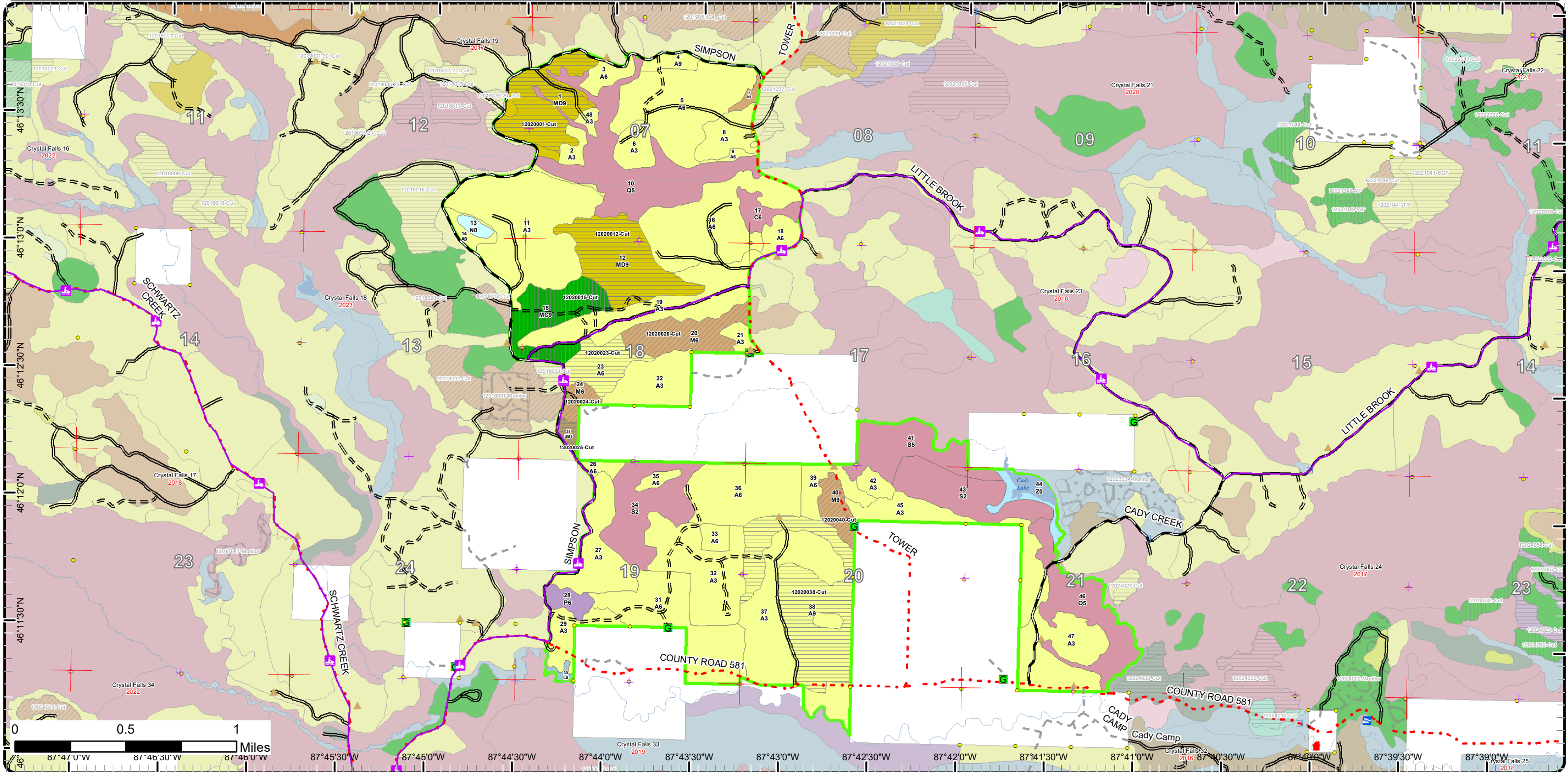
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 20
 T44N, R27W, Sec. 7, 8, 17-21, 29
 T44N, R28W, Sec. 12, 13
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2024
 Acres: 2272.7 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 11/18/2022
 Map Phase: Post-Review

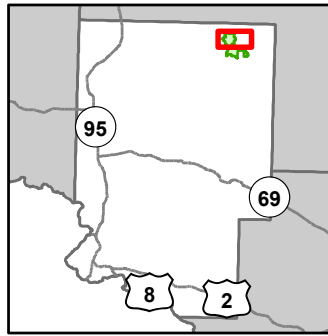


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Gate
- ⊗ Bridges
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

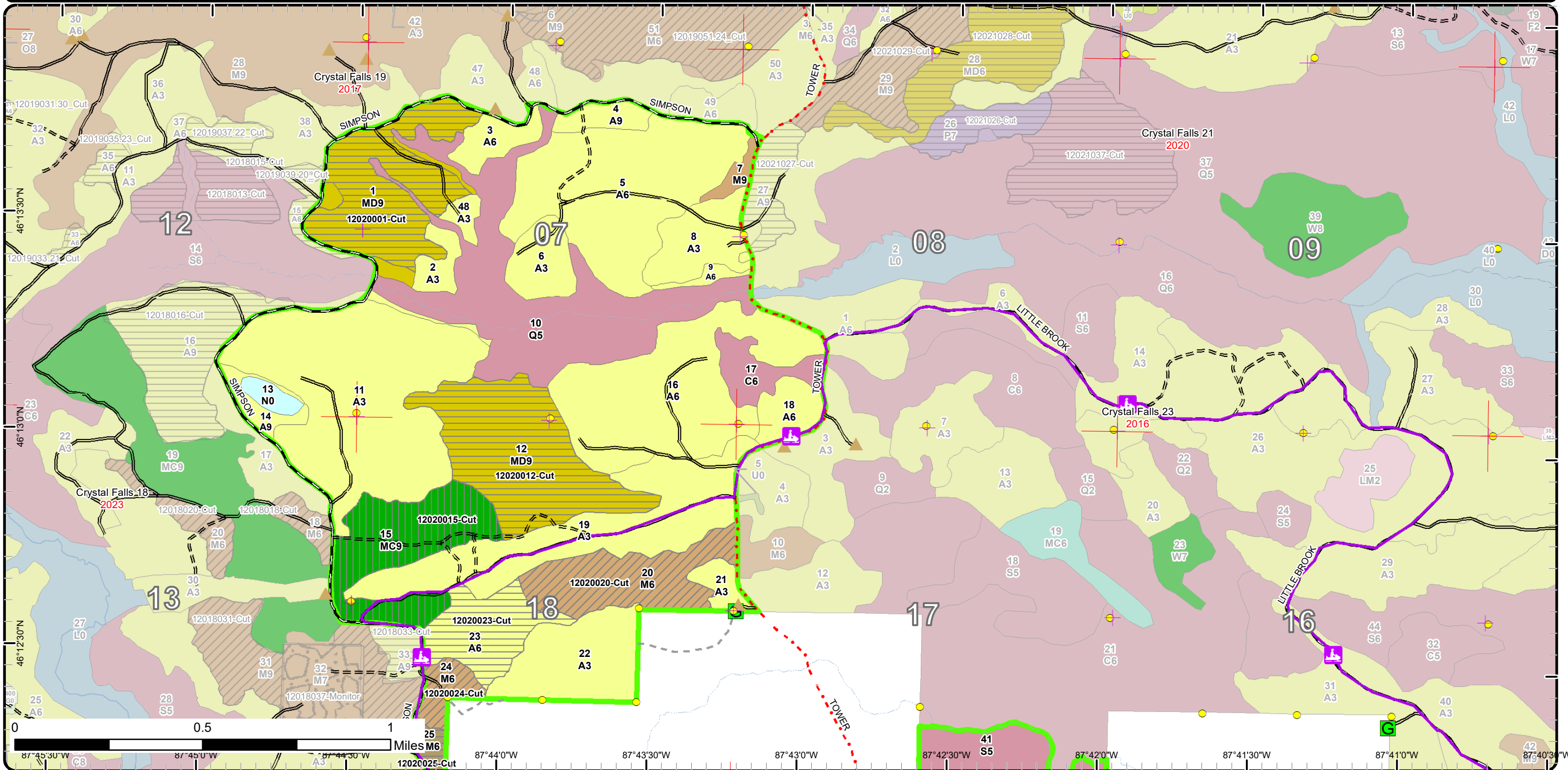


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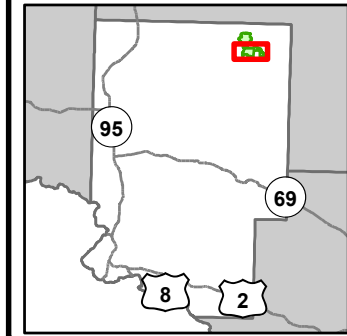


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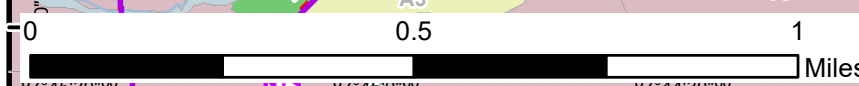
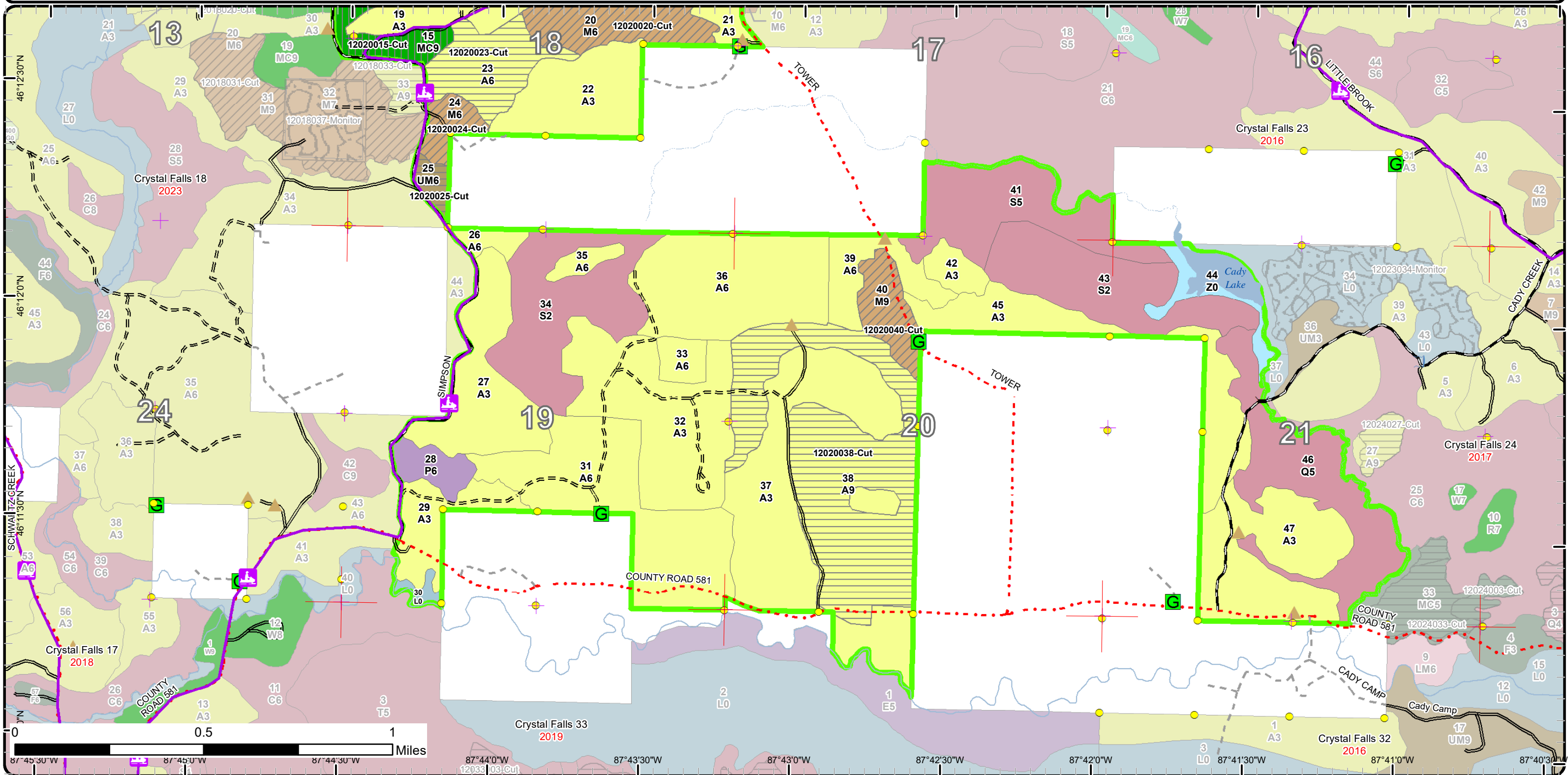


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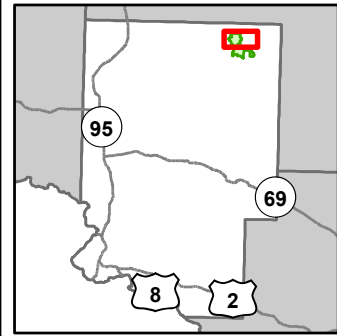
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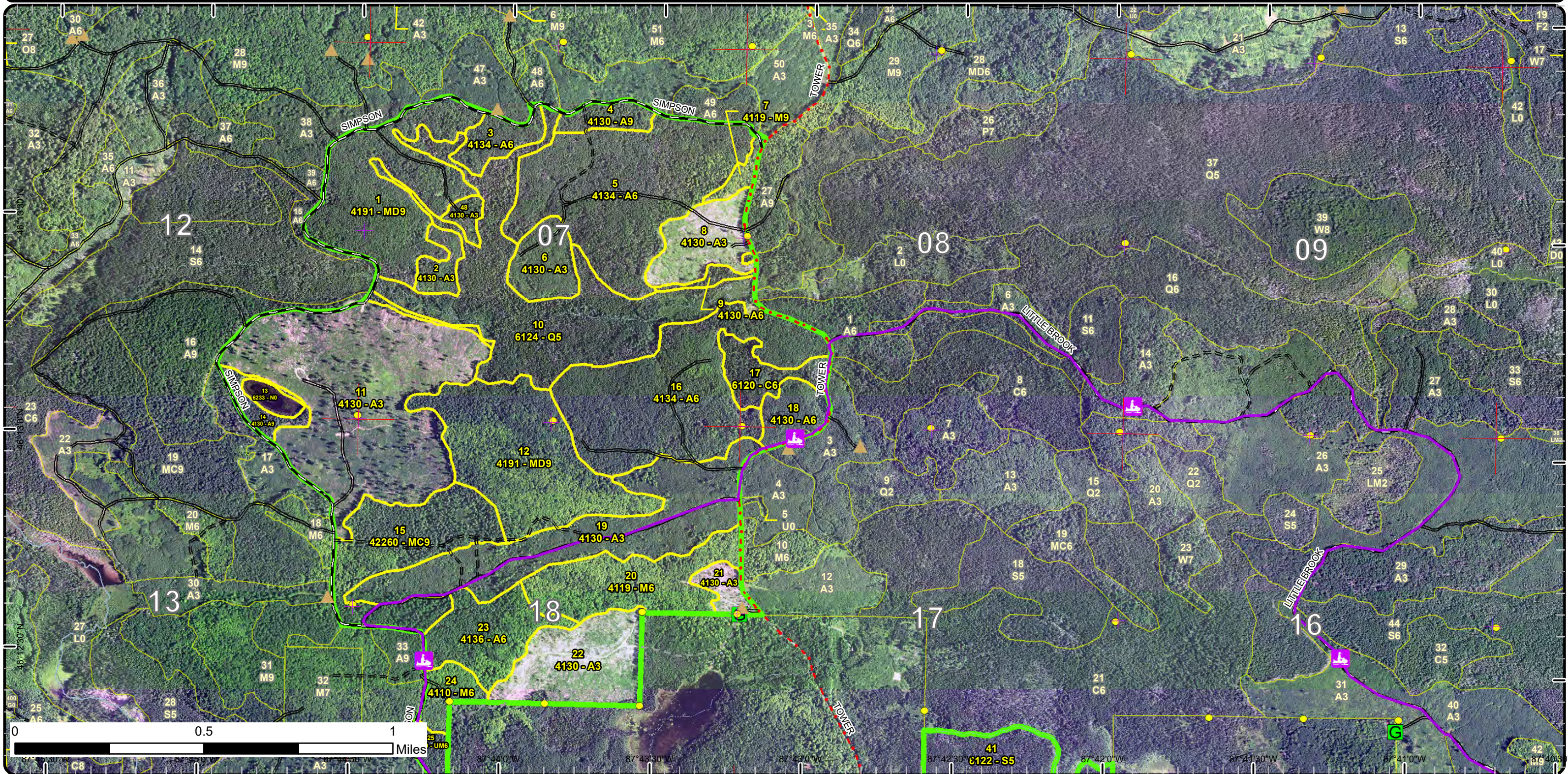
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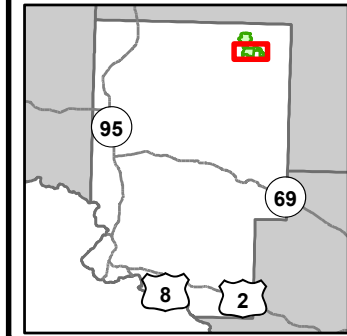


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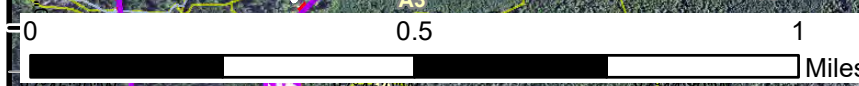
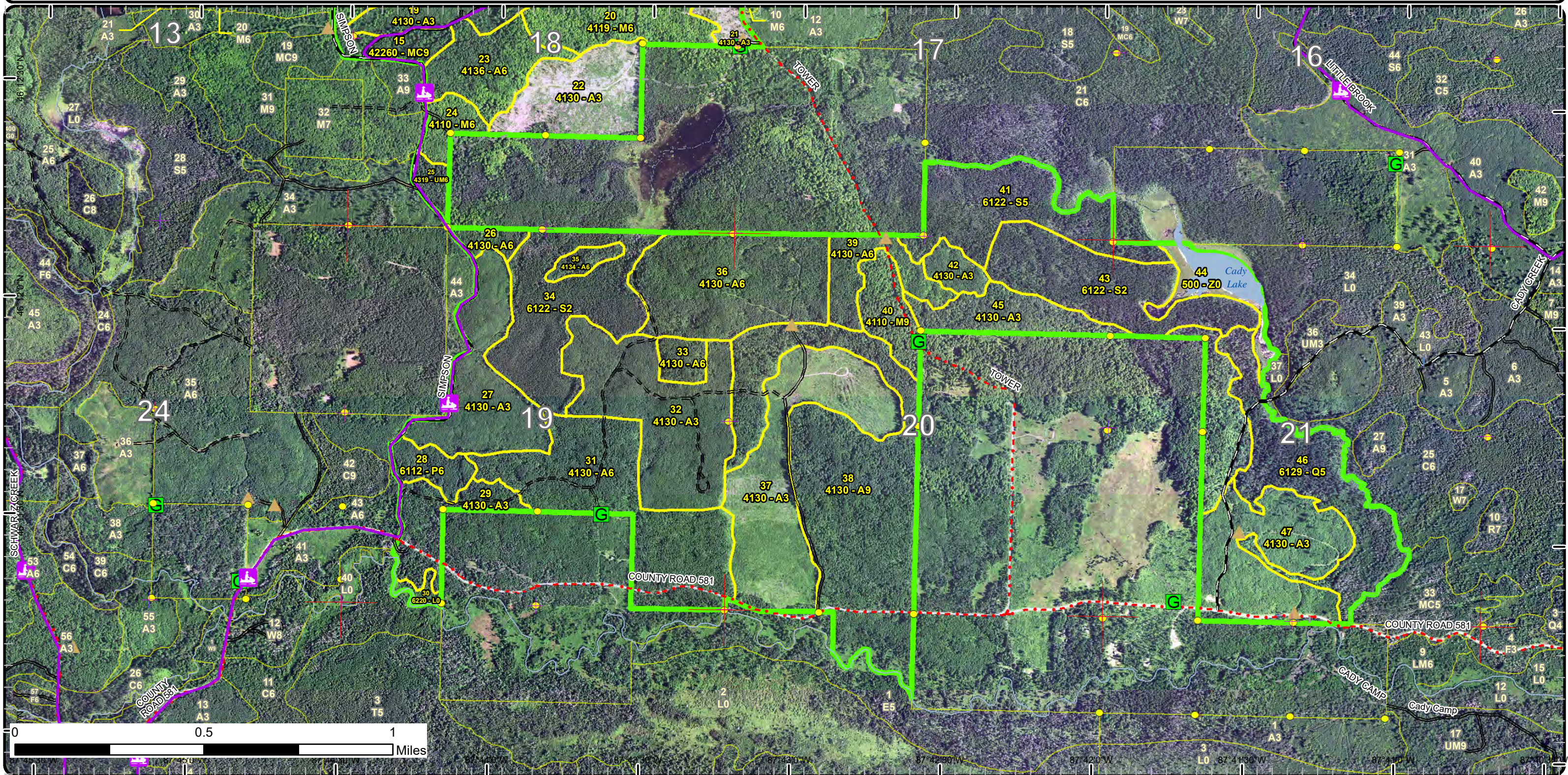


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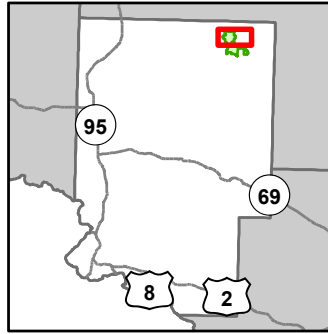
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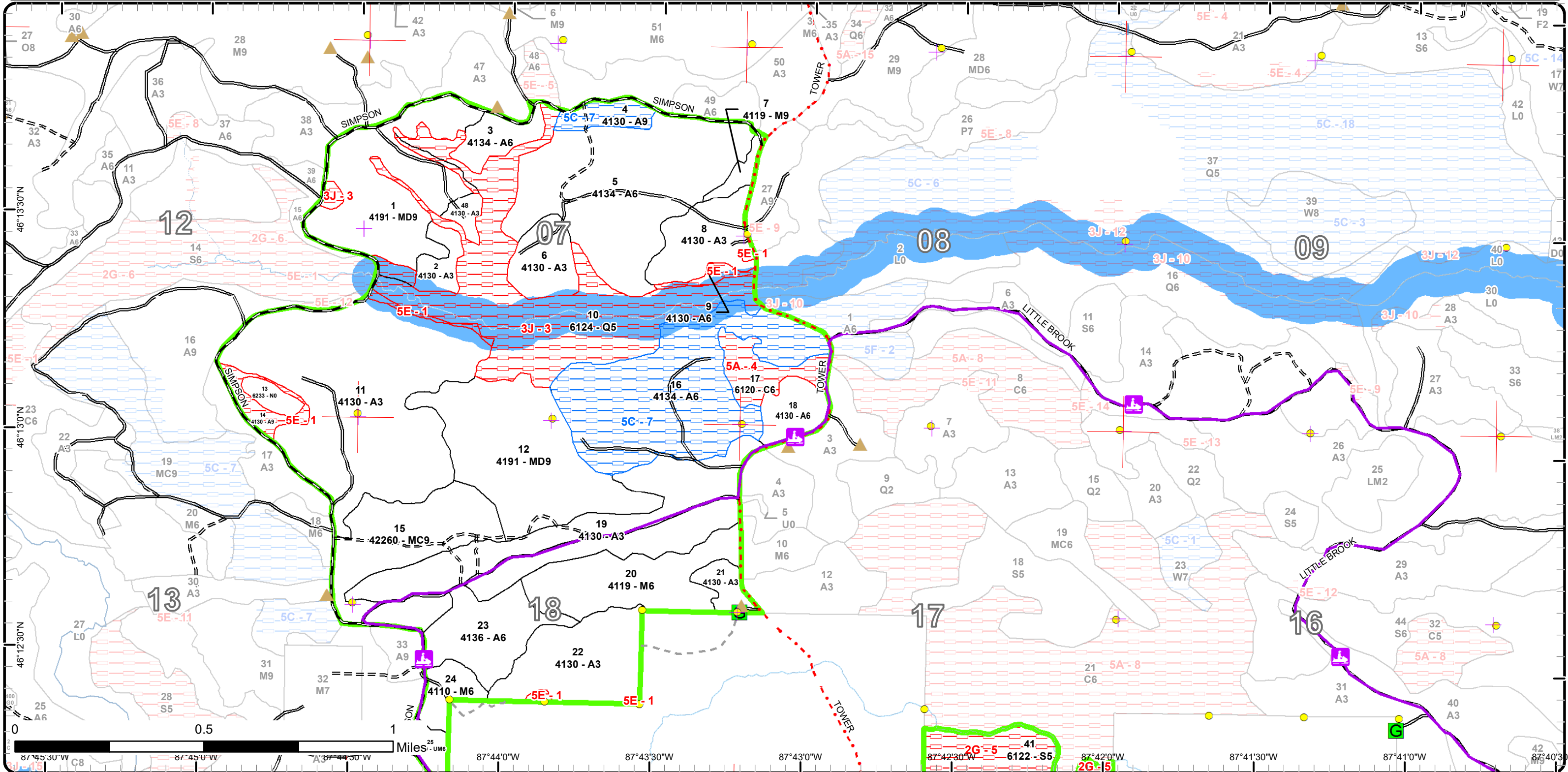
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 Map Revised: 11/18/2022
 Map Phase: Post-Review

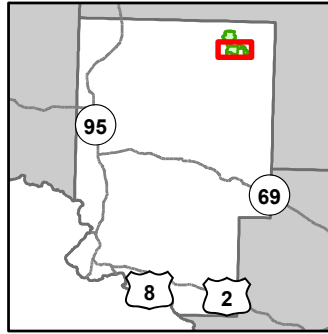


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Culvert
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Available w/ Constraints
- 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)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

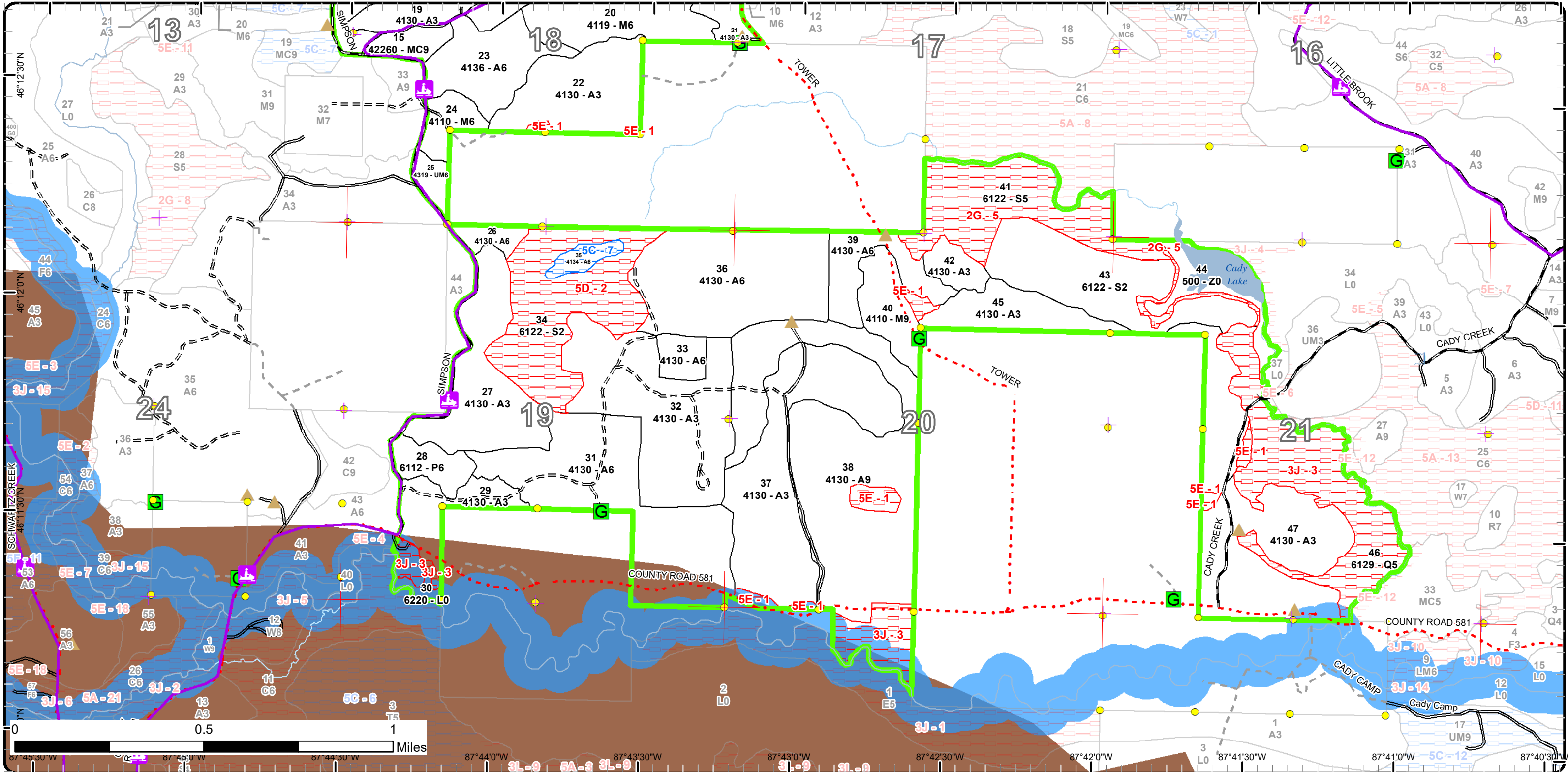


Special Conservation Areas

Compartment: 20
 T44N, R27W, Sec. 7, 8, 17-21, 29
 T44N, R28W, Sec. 12, 13
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2024
 Acres: 2272.7 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 11/18/2022
 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
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- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Gate
- ✂ Bridges
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 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)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	419	131	225	98	265	164	159	4	0	12	0	0	0	0	0	0	0	1476
Cedar	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	201	0	0	0	0	0	0	201
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	67	0	0	0	0	0	0	0	0	63	74	0	0	0	0	0	0	204
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	82	0	0	0	89	0	0	0	0	0	0	0	171
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	61
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	83	6	0	0	0	0	0	0	89
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	32	486	131	225	112	265	253	159	4	0	247	360	0	0	0	0	0	0	2273



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 20
Total Compartment Acres: 2,273

Commercial Harvest - 485
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	171	0	0	0	0	0	0	0	0	171
Mixed Upland Deciduous	163	0	0	0	0	0	0	0	0	163
Natural Mixed Pines	0	0	0	0	61	0	0	0	0	61
Northern Hardwood	0	0	0	0	0	83	0	0	0	83
Upland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Total	341	0	0	0	61	83	0	0	0	485

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	485	0	0	0	0	0	0	0	0	485
Next Step	0	0	0	0	0	0	402	0	0	402
Total	485	0	0	0	0	0	402	0	0	886



Stand Name	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	12020001-Cut	74.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	59	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine, Hemlock, and Oak. Buffer Little Brook 300 feet. Also buffer unnamed creek 100 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, Maple, 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 /2023</p>											
12	12020012-Cut	88.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	97	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 2" spec. Leave Cedar, Pine, Hemlock, and Oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, 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 /2023</p>											
15	12020015-Cut	60.8	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	109	111-140	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Cut all trees using 2" spec. Leave Red Pine, White Pine, Cedar, Hemlock, and Oak. Pine can only be harvested if necessary to remove cut species.</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> Pine, Aspen, Mixed Conifers, Mixed Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> The next treatment will open up the stand to allow the conifer regen to recruit.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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	12020020-Cut	49.7	4119 - Mixed Northern Hardwoods	Poletimber Well	99	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin targeting residual 80 BA. Leave all conifers.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

23	12020023-Cut	36.4	4136 - Aspen, Mixed Conifer	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 2" spec. Leave Cedar, Pine, Hemlock, and Oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Mixed Hardwoods, Mixed Conifers

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

24	12020024-Cut	12.5	4110 - Sugar Maple Association	Poletimber Well	99	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin targeting residual 80 BA. Leave all conifers.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

25	12020025-Cut	7.0	4319 - Mixed Upland Forest	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave Cedar, Pine, Hemlock, and Oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Mixed Hardwoods, Mixed Conifers

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
38 12020038-Cut	134.3	4130 - Aspen	Sawtimber Well	64	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest using 4" spec. Leave Cedar, Pine, Hemlock, and Oak. Buffer Escanaba River 300 feet. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Maple, Mixed Hardwoods, Mixed Conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
40 12020040-Cut	21.2	4110 - Sugar Maple Association	Sawtimber Well	99	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin targeting residual 80 BA. Create a few regen gaps within stand. <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 /2023</p>										

Total Treatment Acreage Proposed: 484.9

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 20
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition			5C	2G	3J	5A	5D	5E	
1477	1293	128		56	Aspen	128		25		0	31
18	0	0		18	Cedar				18		
14	14	0		0	Lowland Aspen/Balsam Poplar						
201	0	0		201	Lowland Conifers			201			
4	4	0		0	Lowland Shrub			0			
204	63	0		141	Lowland Spruce/Fir		62	5		74	
6	6	0		0	Marsh						
170	163	0		7	Mixed Upland Deciduous			7			
61	61	0		0	Natural Mixed Pines						
89	89	0		0	Northern Hardwood						
7	7	0		0	Upland Mixed Forest						
22	22	0		0	Water						
2,273	1,721	128		424	Total Forested Acres	128	62	239	18	74	31
	76%	6%		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	31	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is unable to grow merchantable trees.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 20
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	239	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Areas adjacent to water features. Also includes riparian buffers included for long term retention.							
4	Unavailable	5A: Not able to obtain desirable regeneration	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was attempted to be harvested in 2019, but ground was too wet and could not be cut.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	128	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for age class distribution.							

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
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1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	81.5	59	111-140	N/A	Some Aspen pockets older than the majority of stand. Most likely result of high grading.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Log/Pole	12	59
Paper Birch	10	Log/Pole	14	
Balsam Fir	15	Pole/Sapling	6	
White Spruce	10	Pole/Log	10	
White Pine	5	XLog	18	
Sugar Maple	3	Pole	8	
Red Pine	5	Log	14	
Balsam Poplar	2	Pole	9	
Red Maple	7	Pole	7	
Black Ash	3	Pole	6	
Red Oak	2	Log	12	
Ironwood	3	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Ironwood	Low	Variable	Sapling
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Tag Alder	Low	5 - 10 feet	Tall Shrub

2	4130 - Aspen	Sapling Well	9.6	21	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	3	21

3	4134 - Aspen, Spruce/Fir	Poletimber Well	14.2	46	Unspecified	N/A	Scattered supercanopy Pines mixed throughout. Several different Aspen ages.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Pole/Sapling	5	
White Spruce	10	Pole/Sapling	5	
Balsam Fir	10	Pole/Sapling	5	
White Pine	5	XLog	18	
Sugar Maple	3	Pole	8	
Quaking Aspen	50	Pole/Sapling	5	46
Red Maple	2	Pole	5	
Red Pine	5	Log	14	

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

4	4130 - Aspen	Sawtimber Well	10.9	59	Unspecified	N/A	Some Oak seedlings and saplings in understory. More mixed hardwood on wetter sites.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	76	Log/Pole	11	59
White Spruce	10	Pole/Sapling	6	
Red Oak	2	XLog	18	
Red Maple	10	Pole	6	
Red Pine	2	Log	16	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
5	4134 - Aspen, Spruce/Fir	Poletimber Well	112.0	46	Unspecified	N/A	Scattered supercanopy Pines mixed throughout. Several different Aspen ages.																																																													
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7	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.5	107	81-110	N/A	Ironwood and Pine in understory.																																																													
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9	4130 - Aspen	Poletimber Well	4.3	73	Unspecified	N/A	Retention for adjacent harvest																																																													
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10	6124 - Lowland Spruce-Fir	Poletimber Medium	127.4	103	1-50	N/A	Low stocking. Small pockets of cedar mixed throughout. Much windthrow. Big Brook Creek and 2 unnamed tributaries within stand.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11	4130 - Aspen	Sapling Well	154.9	7	Immature	N/A	Harvested 2015
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	7	Bracken Fern	High	Unspecified	Non-Wood

12	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	88.7	97	111-140	N/A	Lower stocking to North. Much mortality throughout entire stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Sugar Maple	Low	Variable	Sapling
Red Pine	5	Log	14		Ironwood	Low	Variable	Sapling
Ironwood	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Sugar Maple	15	Pole/Log	8		Leatherwood	Low	< 5 feet	Tall Shrub
Red Oak	5	Log	14		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log	14					
Red Maple	30	Log/Pole	10	97				
Quaking Aspen	15	Log/Pole	11					
Paper Birch	5	Pole	8					

13	6233 - Wet Meadow	Nonstocked	6.0		Unspecified	No	This is a lake in wet years, and grassy opening in dry years. This year it is a lake.
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14	4130 - Aspen	Sawtimber Well	12.2	93	Unspecified	N/A	retention
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Log	14	93

15	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	60.8	109	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	5	Pole	8		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Log/Pole	11		Ironwood	Low	Variable	Sapling
Red Pine	5	Log	14		Sugar Maple	Low	Variable	Sapling
Balsam Fir	5	Pole	6		Leatherwood	Low	< 5 feet	Tall Shrub
Sugar Maple	15	Log/Pole	10		Quaking Aspen	Medium	Variable	Sapling
Red Oak	5	Log/XLog	16					
White Pine	55	XLog/Log	18	109				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4134 - Aspen, Spruce/Fir	Poletimber Well	110.3	50	81-110	N/A	Mixed Hardwoods throughout. Small mature pockets of Aspen are present. Most likely result from high grading. Some Oak seedlings coming in along road.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log	16		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	40	Pole	7	50	White Spruce	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole	8		Ironwood	Low	Variable	Sapling
Sugar Maple	5	Pole	8		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Red Pine	2	Log	14		Red Maple	Low	10 - 20 feet	Sapling
White Pine	3	Log/XLog	16					
Red Maple	5	Pole/Log	10					
Ironwood	3	Pole	6					
Balsam Fir	20	Pole	6					
White Spruce	10	Pole	6					

17	6120 - Lowland Cedar	Poletimber Well	17.6	107	Unspecified	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	65	Pole/Log	10	107	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole/Sapling	6		Labrador Tea	Low	< 5 feet	Tall Shrub
Tamarack	15	Pole/Log	10		Balsam Fir	Medium	Variable	Sapling

18	4130 - Aspen	Poletimber Well	15.5	34	Unspecified	N/A	Wetter Tamarack spot in North	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Pole/Sapling	5	34	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	40	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sapling	5		White Spruce	Low	5 - 10 feet	Sapling

19	4130 - Aspen	Sapling Well	92.1	20	Unspecified	N/A	Stand resulting from tornado harvest. Scattered overstory Pines mostly in West.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	3	20	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Sapling	3		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Cherry	10	Sapling	3					

20	4119 - Mixed Northern Hardwoods	Poletimber Well	49.7	99	111-140	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/Pole	14		White Spruce	Medium	Variable	Sapling
Red Maple	10	Pole/Log	8		Leatherwood	Low	< 5 feet	Tall Shrub
Sugar Maple	65	Log/Pole	10	99	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine	5	XLog	20		Balsam Fir	Medium	Variable	Sapling
Basswood	10	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	4130 - Aspen	Sapling Well	9.1	6	Immature	N/A	Harvested 2016. Submerchantable conifers retained.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		100	Sapling	1	6		

22	4130 - Aspen	Sapling Well	48.6	6	Immature	N/A	Harvested 2016. Submerchantable conifers retained.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	6	Bracken Fern	High	Unspecified	Non-Wood

23	4136 - Aspen, Mixed Conifer	Poletimber Well	36.4	57	111-140	N/A	Varying diameters and ages. Most WP located in North portion of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	10		Sugar Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		50	Pole	8	57	Balsam Fir	Medium	Variable	Sapling
White Pine		10	XLog	18		Ironwood	Medium	Variable	Sapling
Balsam Fir		10	Pole	6		White Spruce	Low	Variable	Sapling
Sugar Maple		15	Pole/Log	8		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar		5	Log	14					

24	4110 - Sugar Maple Association	Poletimber Well	12.5	99	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		75	Pole/Log	10	99	Balsam Fir	Medium	Variable	Sapling
Red Maple		10	Pole/Log	8		White Spruce	Medium	Variable	Sapling
Basswood		10	Log	12		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine		5	XLog	20		Leatherwood	Low	< 5 feet	Tall Shrub

25	4319 - Mixed Upland Forest	Poletimber Well	7.0	55	111-140	N/A	More conifer component to North.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Log	10	55	Red Maple	Low	Variable	Sapling
Balsam Fir		20	Pole	7		Balsam Fir	Low	Variable	Sapling
White Spruce		20	Log/Pole	10		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine		10	Log	16		Ironwood	Low	5 - 10 feet	Sapling
Paper Birch		5	Pole	7					
Sugar Maple		5	Log/Pole	10					

26	4130 - Aspen	Poletimber Well	7.3	42	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole/Sap/Log	8		Ironwood	Low	5 - 10 feet	Sapling
Quaking Aspen		85	Pole	6	42	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
White Spruce		5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	4130 - Aspen	Sapling Well	56.6	15	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	15	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
28	6112 - Lowland Aspen	Poletimber Well	13.7	32	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Pole/Sapling	6	32	White Spruce	Low	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole/Sapling	5		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Tamarack		35	Pole/Sapling	5	32	Balsam Fir	Medium	Variable	Sapling
29	4130 - Aspen	Sapling Well	28.1	3	Immature	N/A	Harvested 2018		
Canopy Species		% Cover	Size Class	DBH	Age				
Balsam Fir		2	Pole	7					
White Pine		3	Log/Pole	16					
Quaking Aspen		95	Sapling	1	3				
30	6220 - Alder/willow	Nonstocked	3.8		Unspecified	No			
31	4130 - Aspen	Poletimber Well	97.8	46	Unspecified	N/A	Conifer regen low.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		5	Pole	8		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen		20	Pole	6		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		70	Pole	6	46	White Spruce	Low	Variable	Sapling
Balsam Fir		5	Pole	6		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
32	4130 - Aspen	Sapling Well	87.8	27	Unspecified	N/A	Some overstory Fir and Spruce		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		2	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		95	Sapling/Pole	4	27	White Spruce	Low	< 5 feet	Sapling
Balsam Fir		3	Sapling	2		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
						Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
33	4130 - Aspen	Poletimber Well	9.4	46	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		5	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen		70	Pole	6	46	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole	6		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen		20	Pole	6		White Spruce	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
34	6122 - Black Spruce	Sapling Medium	73.8	103	Unspecified	N/A	Fir/Aspen around edges. Black Spruce old, but not merchantable. Scattered mature Tamarack mixed throughout. More Cedar to North. Low volumes.																																																						
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35	4134 - Aspen, Spruce/Fir	Poletimber Well	6.4	55	Unspecified	N/A	High ground island surrounded by Q type. Aspen is very healthy.																																																						
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36	4130 - Aspen	Poletimber Well	82.7	31	Unspecified	N/A	Some Pine, Spruce, and Balsam scattered throughout. Berm not effective on South side of stand.																																																						
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