



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12060

Entry Year 2025

Acreage: 2,338

County Dickinson

Management Area: Ralph Moraine

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**Stand Examiner:** Deb Goupell

## **Legal Description:**

T42N R28W Sec 17-20, 30 T42N R29W Sec 24, 25

## **Identified Planning Goals:**

This compartment is over half upland, the majority of it being aspen cover type. Management of all stands is to balance age class distribution and allow best suited species to grow on best suited sites while promoting sustainable timber production and enhancing and protecting wildlife habitat. Hardwood management goals are to put growth on the best trees in place by removing crown competition. Protect all bodies of water, especially the East Branch of the Sturgeon River.

## **Soil and topography:**

The uplands are predominantly fairly shallow soiled Pemene-rock outcrops with some fine sandy loams. The lowlands are flat, very poorly drained and/or saturated, with Carbondale/Cathro mucks or Waucedah Cathro complex.

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

There are some private parcels intermingled within this compartment. Private ownership bounds most of the compartment exterior boundary except for the northwest.

## **Unique Natural Features:**

Felch Mountain Flooding, which is man-made.

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

None identified.

## **Special Management Designations or Considerations:**

Deer wintering complex in the north two-thirds. The Felch Mountain Flooding State Wildlife Management Area in the south third of the compartment will be discussed to have this designation removed.

## **Watershed and Fisheries Considerations:**

Sixmile Creek, unnamed tributaries, Felch Mountain Flooding, and many wetland areas are located within this compartment. Best management practices should be implemented which include a 100' buffer.

## **Wildlife Habitat Considerations:**

This compartment falls within the historic Sturgeon River Deeryard. Winter cover and associated travel corridors will be protected. Transition zones between upland and lowlands are highly productive and provide vital cover and forage for game and nongame species and are particularly important for deer to be able to utilize the forage in the upland stands adjacent to winter cover. The Felch Mountain water control structure was decommissioned and removed. Beaver now maintain a wetland complex that provides valuable habitat for wetland associated species. This area also provides ample recreational opportunities for hunters and trappers. Drainages will be protected as will the fragile soils on rock outcrops and steep slopes so that sensitive species will not be negatively impacted.

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

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. Precambrian Archean granite/gneiss subcrops below the glacial drift. There is not a current economic use for these rocks, although they have building stone potential. A rock quarry (? type) lies three miles to the north. Iron mines are located approximately twelve miles to the south. Gravel pits are not indicated in this area, but there appears to be good gravel potential. Most of this area was previously leased for metallic exploration and State land to the northwest is currently leased. There is no economic oil and gas production in the UP.

## **Vehicle Access:**

Wickman Marsh Road and Spring Hill Road are county maintained gravel roads that provide access to some of the compartment; the north third is limited via private gate access.

## **Survey Needs:**

Will be needed where treatments are prescribed against private.

**Recreational Facilities and Opportunities:**

The area is heavily used by loggers, hunters, fisherpeople, campers, trappers, local camp owners, general recreationists. Snowmobile trail #16 crosses through the south third of the compartment.

**Fire Protection:**

Felch protection area. Access to much of the interior of this compartment would be difficult.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

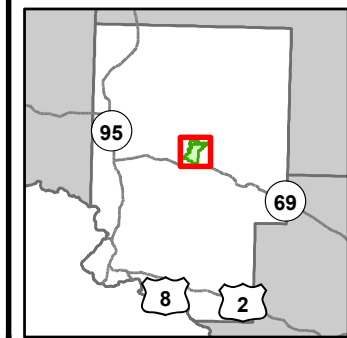
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

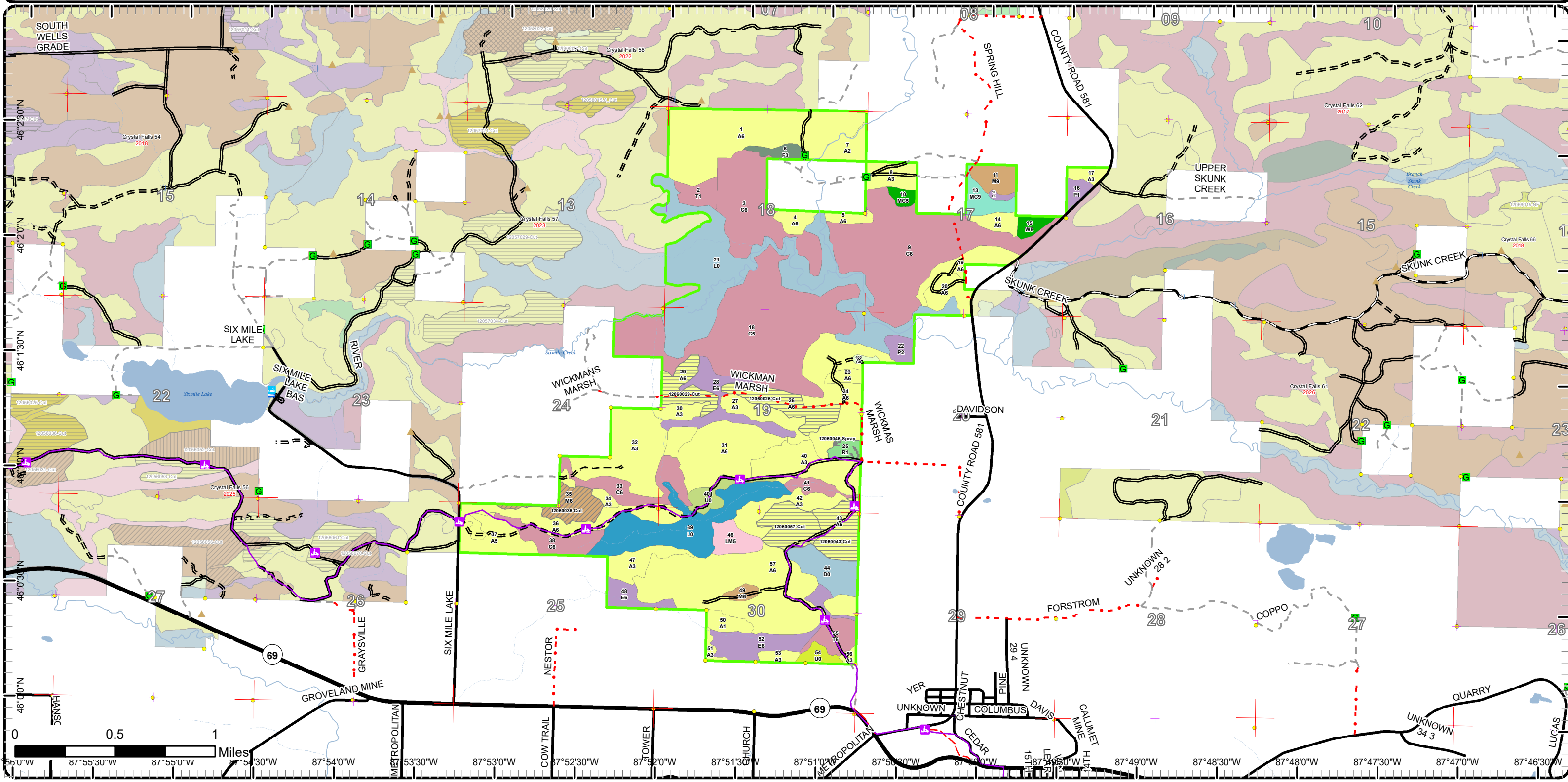
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 60  
 T42N, R28W, Sec. 17-19, 30  
 T42N, R28W, 13, 24-25  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Moraine  
 YOE: 2025  
 Acres: 2337.5 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 8/1/2023  
 Map Phase: Review

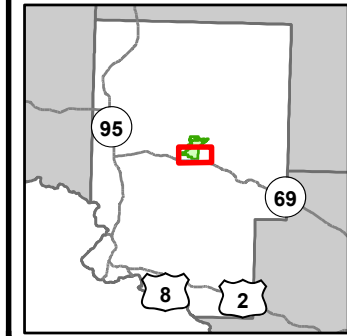


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Berms
- Gate
- Bridges
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

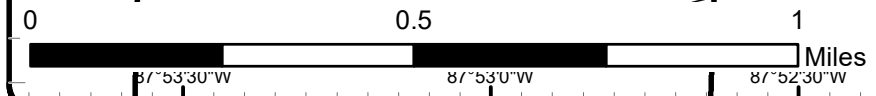
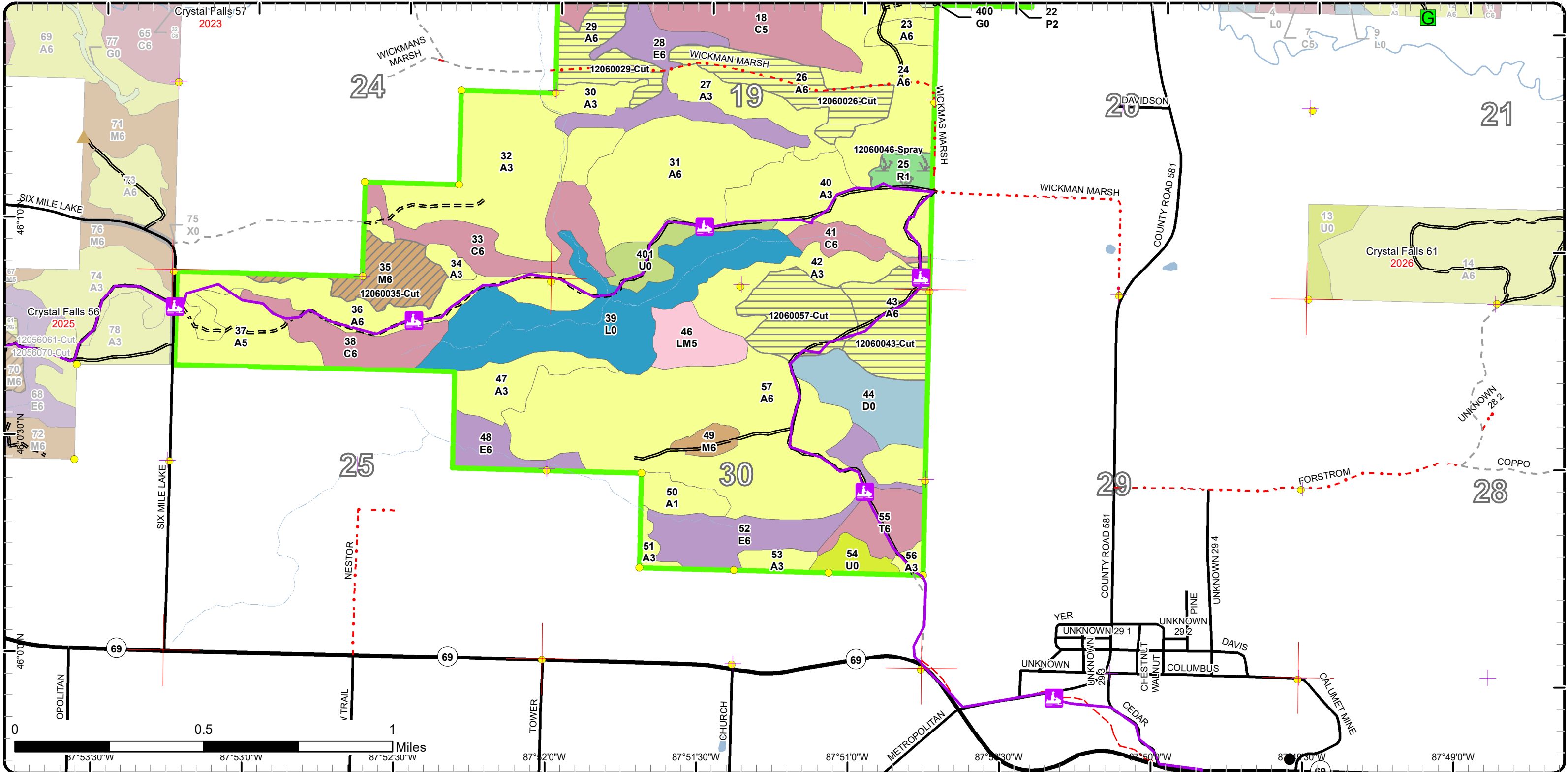


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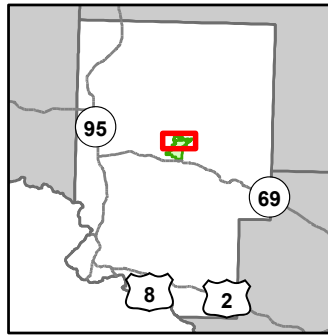
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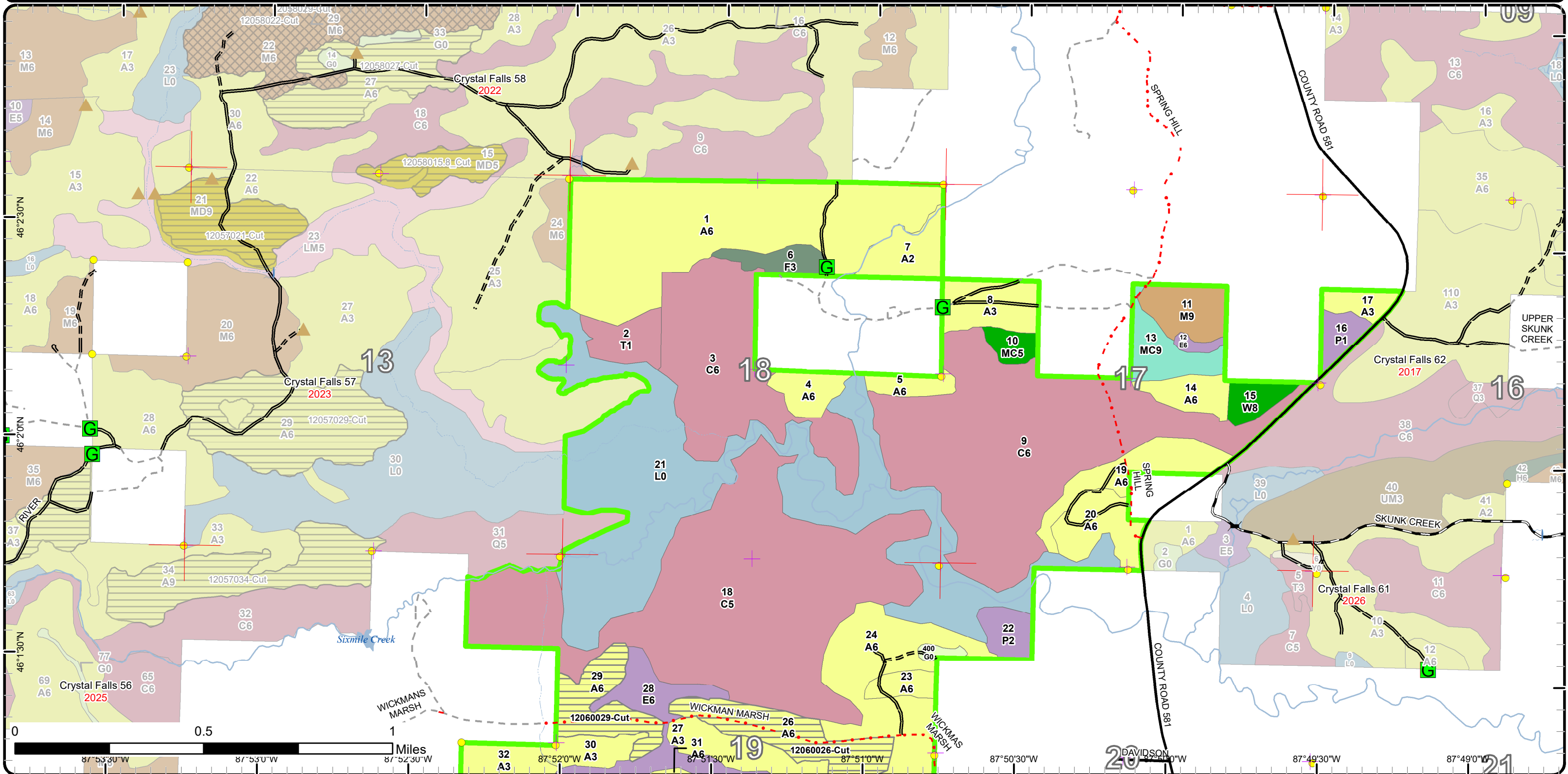


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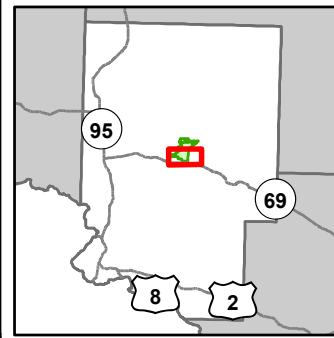
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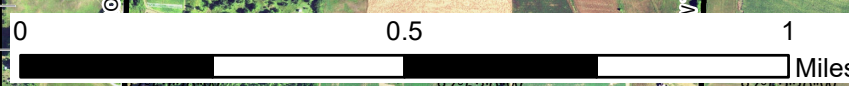
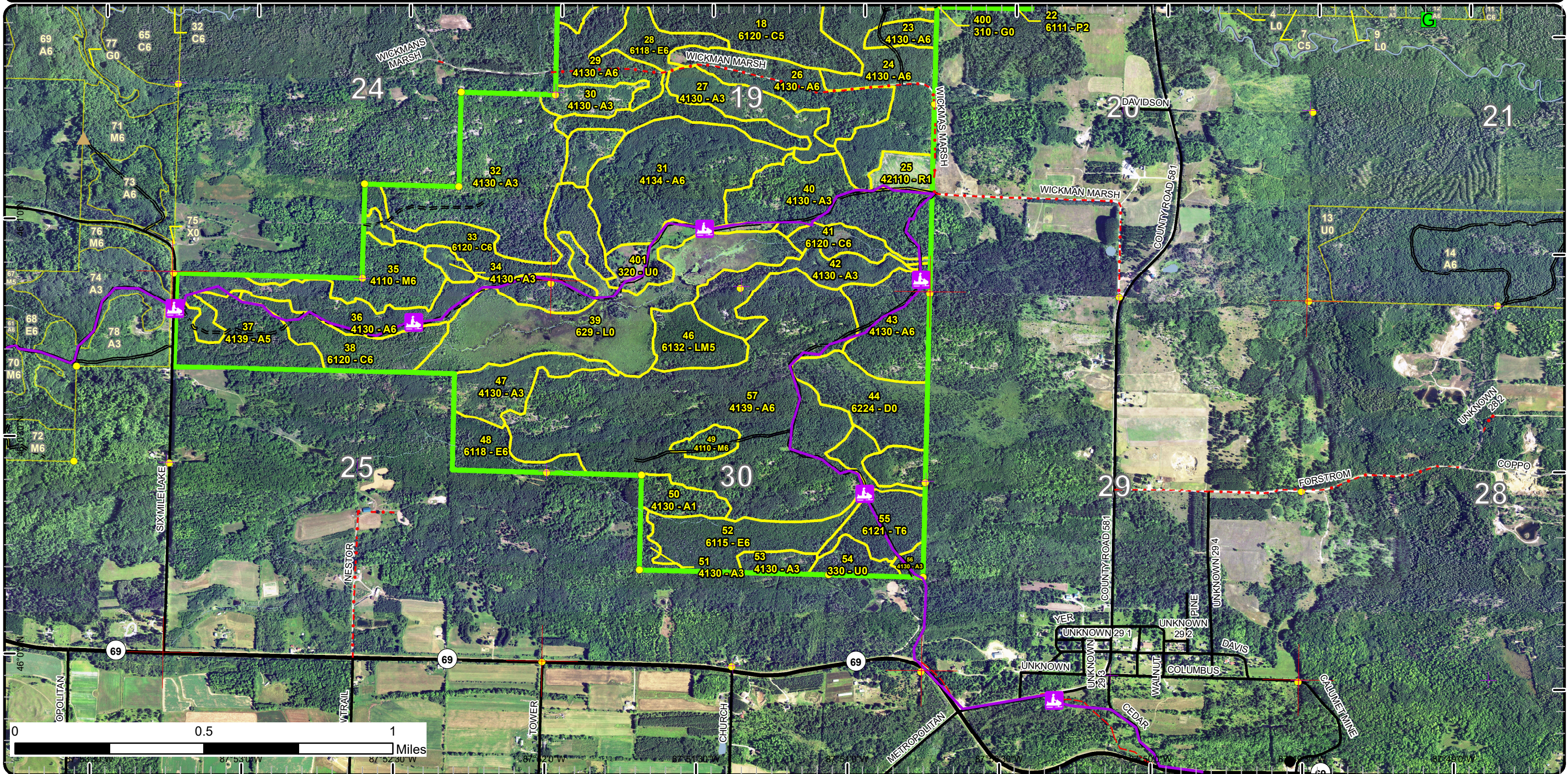


# Stand Boundary Map

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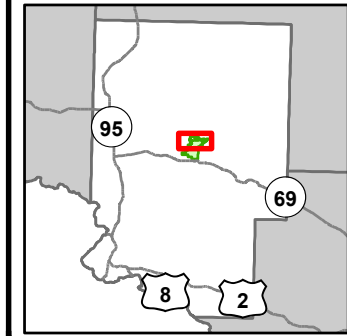


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 87° 53' 0" W 87° 52' 30" W 87° 51' 30" W 87° 51' 0" W 87° 50' 30" W 87° 50' 0" W 87° 49' 30" W 87° 49' 0" W 87° 48' 30" W 87° 48' 0" W

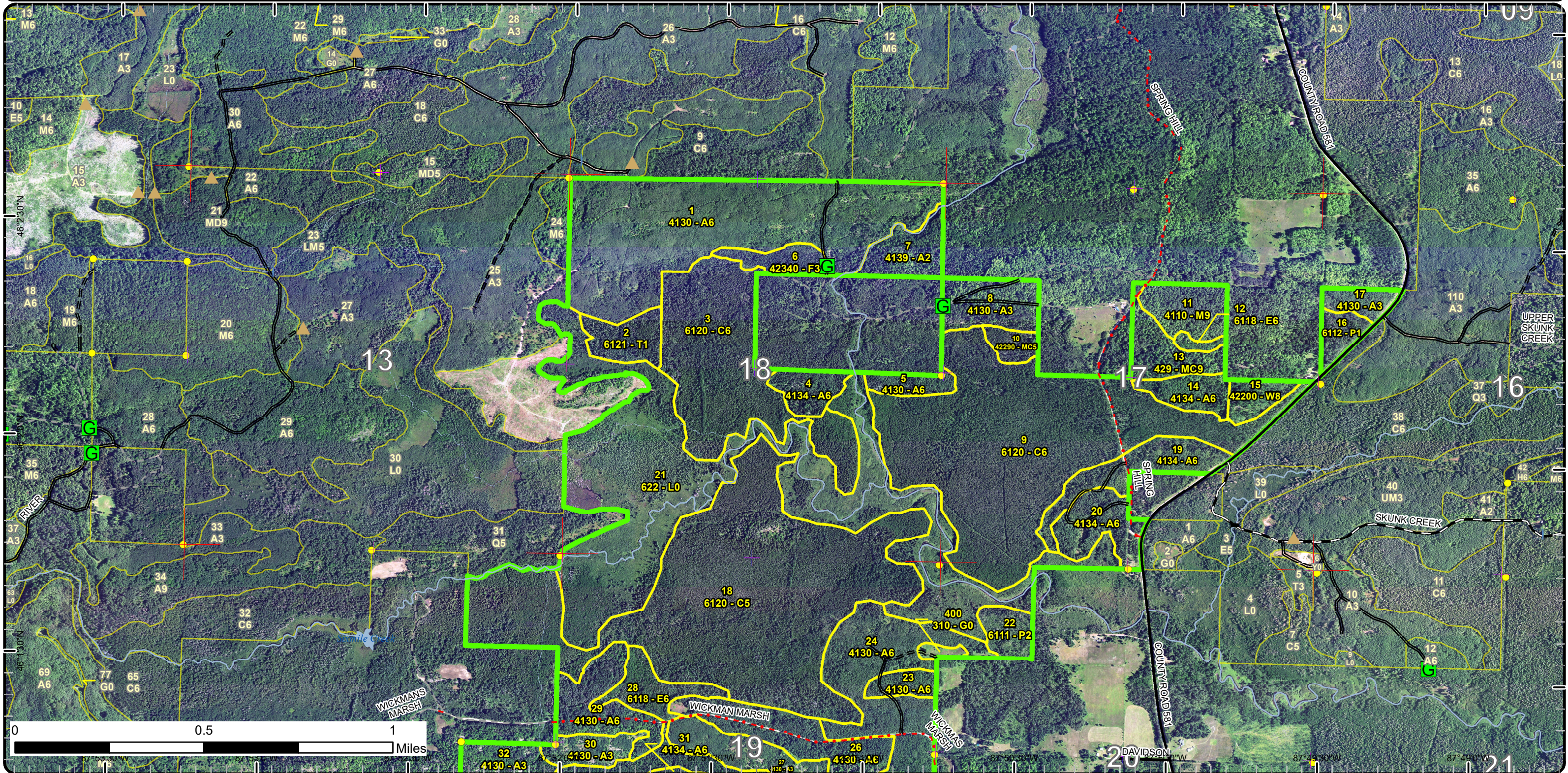


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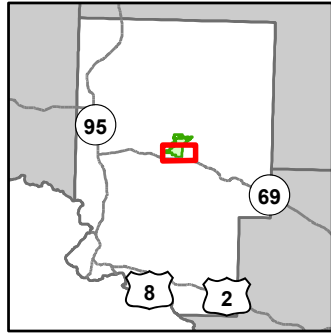
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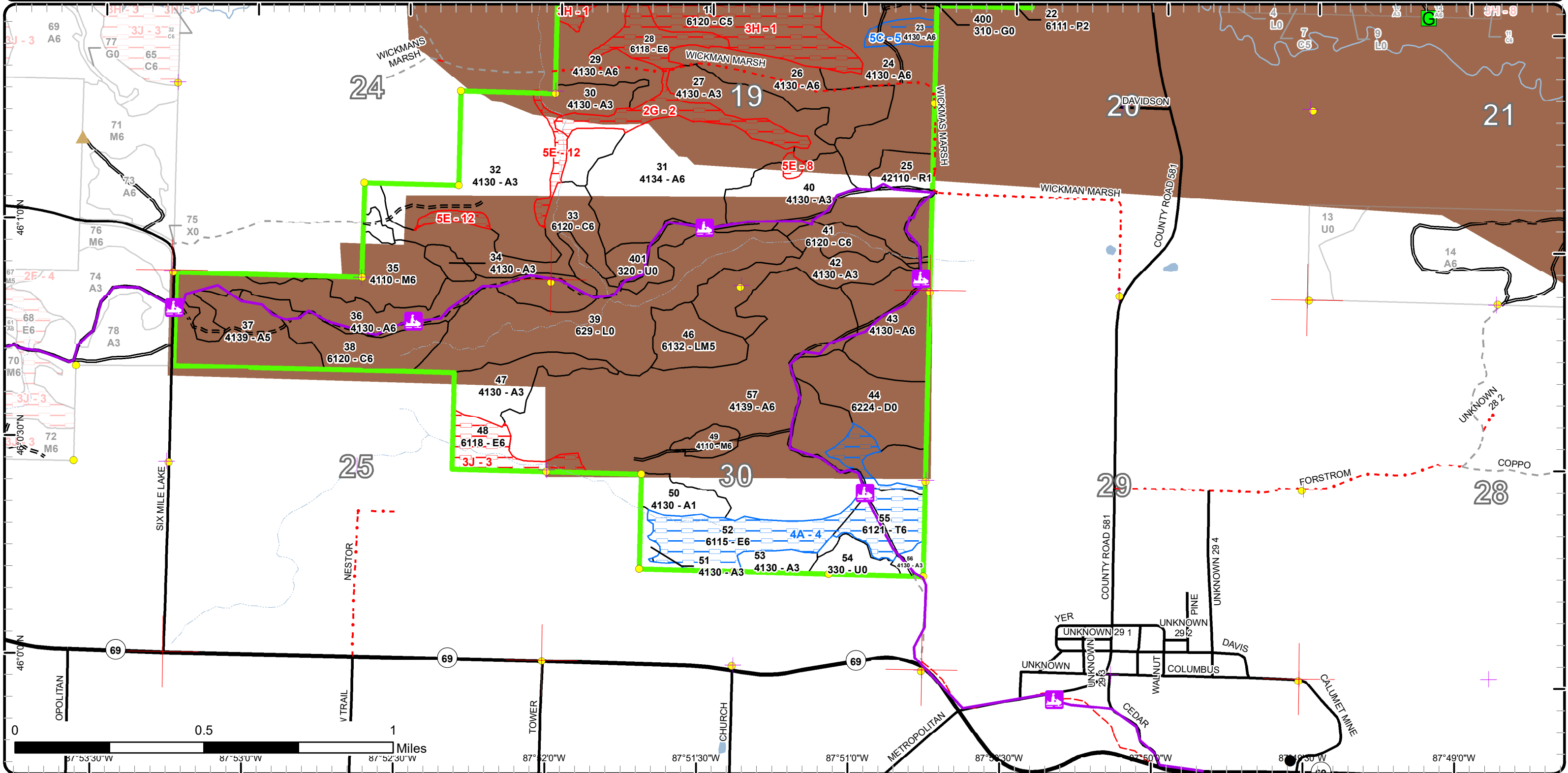


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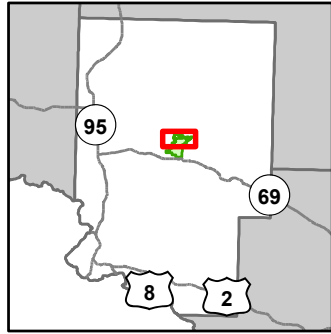
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Deer Winter Range
- Wildlife Management Areas



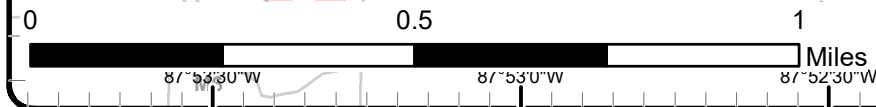
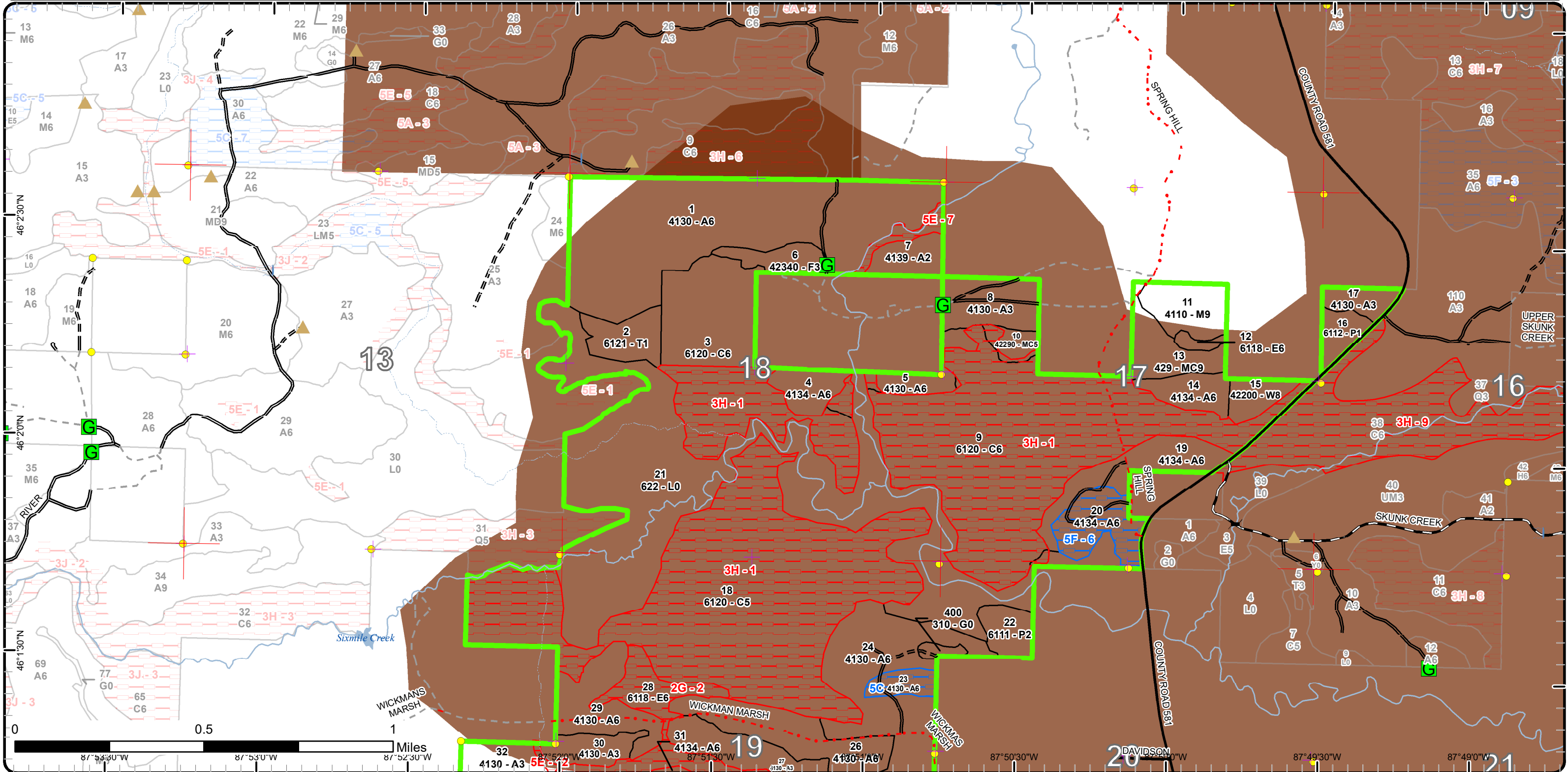


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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- 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+	Unseen-Aged	Total
Aspen	0	188	76	259	192	266	106	0	0	0	0	0	0	0	0	0	0	0	1087
Cedar	0	0	0	0	0	0	0	0	0	0	39	37	519	0	0	0	0	0	594
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Deciduous	0	0	0	0	0	0	0	0	0	39	60	0	0	0	0	0	0	0	99
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Lowland Shrub	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	314
Natural Mixed Pines	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	34	18	0	0	0	0	0	0	52
Red Pine	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Tamarack	0	15	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	36
Treed Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Conifers	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
White Pine	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
<b>Total</b>	<b>376</b>	<b>221</b>	<b>87</b>	<b>259</b>	<b>192</b>	<b>277</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>181</b>	<b>55</b>	<b>519</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2338</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 60  
Total Compartment Acres: 2,338

Commercial Harvest - 160  
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	Overshory Removal	Salvage	Other	Total Acres
Aspen	133	0	0	0	0	0	0	0	0	133
Northern Hardwood	0	0	0	0	0	27	0	0	0	27
<b>Total</b>	<b>133</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	160	0	0	0	0	9	0	0	0	169
Next Step	0	0	0	0	0	0	142	0	0	142
<b>Total</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>142</b>	<b>0</b>	<b>0</b>	<b>311</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>26</b>	<b>12060026-Cut</b>	35.5	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest all stems 2" dbh and greater. Retain cedar, white pine, red pine, hemlock if present. Retain clumps of live conifer where available.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mixed softwood, mixed hardwood, aspen											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2024											
<b>29</b>	<b>12060029-Cut</b>	26.7	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest all stems 2" dbh and greater. Retain cedar, white pine if present. Submerchantable conifer may be retained.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mixed hardwood, mixed softwood, aspen											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2024											
<b>35</b>	<b>12060035-Cut</b>	27.0	4110 - Sugar Maple Association	Poletimber Well	96	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Two-Aged	No
<u>Prescription</u> Thin to 70 BA by targeting removal on trees that are unlikely to survive to next rotation: snapped off tops, cracked boles or branches, cankers. Focus on releasing the crowns of desired crop trees.											
<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 /2024											
<b>43</b>	<b>12060043-Cut</b>	36.2	4130 - Aspen	Poletimber Well	57	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final harvest all stems 2" dbh and greater. Leave red pine, white pine. Retention, per WLD preference, is to leave 1 acre pocket focusing on live conifer retention.											
<u>Specs:</u>											
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<u>Treatments:</u>											
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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
57 12060057-Cut	34.2	4139 - Aspen, Mixed Deciduous	Poletimber Well	41	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2"dbh and greater except red pine, white pine, cedar if found. Softwood is not holding well due to rockiness, so do not advise retaining softwood.</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 softwood, mixed aspen, 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>										

**Approved Treatments:**

25 12060046-Spray	9.3	42110 - Planted Red Pine	Sapling Poor	3	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release spray, then re-do a regen survey to determine survival..</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine, other conifers</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/2 /2022</p>										

**Total Treatment Acreage Proposed: 168.9**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 60  
 Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5C	5F	2G	3H	3J	5E
1087	1041	29	18	Aspen	0	8	21		1	0	17
594	123	0	471	Cedar					471		
3	3	0	0	Herbaceous Openland							
9	9	0	0	Low-Density Trees							
20	20	0	0	Lowland Aspen/Balsam Poplar							
99	4	42	52	Lowland Deciduous	42			36		17	
20	20	0	0	Lowland Mixed Forest							
314	311	0	3	Lowland Shrub					3		
7	4	0	2	Natural Mixed Pines					2		
52	52	0	0	Northern Hardwood							
9	9	0	0	Red Pine							
36	16	19	0	Tamarack	19						
33	33	0	0	Treed Bog							
18	18	0	0	Upland Conifers							
17	17	0	0	Upland Shrub							
11	11	0	0	Upland Spruce/Fir							
9	9	0	0	White Pine							
2,338	1,701	90	547	Total Forested Acres	61	8	21	36	478	17	17
	73%	4%	23%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	478	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 60

Year of Entry: 2025

2	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	4A: No Markets Available for these Forest Products	61	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> most of the ash is 1 or 2 sticks.							
5	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cut with adjacent stand next entry							
6	<b>Available</b>	5F: Evaluated for Forest Health Considerations	21	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> most of the spruce/fir in this stand is 1 stick or less. MO is aspen							
7	<b>Unavailable</b>	5E: Long-Term Retention	6	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 60  
 Year of Entry: 2025

8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	202	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5E: Long-Term Retention	9	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b>							



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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4130 - Aspen	Poletimber Well	143.5	24	Unspecified	N/A	Beary Patch, Block and Tackle TS 1999, 2000. Conifer more in south, along with smaller diameters further east.																																																		
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2	6121 - Tamarack	Sapling Poor	14.9	5	Immature	N/A	Cedar was retained; sale cut in 2018 Insider TS. Aspen is on upland edge on south side. Black spruce is 6"-1.5' tall, tamarack is 1-7' tall. Low regeneration but it is coming.																																																		
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3	6120 - Lowland Cedar	Poletimber Well	91.6	114	Unspecified	N/A																																																			
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4	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	43	Unspecified	N/A	Approximately 1/3 of the stand is on a rock knob on north central, upon which all merchantable BF/WS is dead. Some WP seedlings. Will be difficult to access, through private and cedar, and little to cut. Re-evaluate next entry.																																																		
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5	4130 - Aspen	Poletimber Well	8.2	42	Unspecified	N/A	Pocket of BS 2-5" dbh in center of stand. Much BF/WS mortality, especially in far west end and along south line. Access will be through private Q3 and/or some cedar																																																		
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6	42340 - Upland Spruce/Fir	Sapling Well	10.7	49	Unspecified	N/A	Most of the aspen concentrated on NW and north and east pieces of stand. Saw 3 white pine. Very thick spruce/fir, mostly black spruce. Seepy																																																		
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7	4139 - Aspen, Mixed Deciduous	Sapling Medium	17.3	5	Immature	N/A	Pocket of tag/ash/red maple south central with some cedar left uncut. Retention: 100' buffer to E. Br. Sturgeon. Was cut in 2018 Insider TS.																																															
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White Pine	2	Log/XLog	16																																																			
9	6120 - Lowland Cedar	Poletimber Well	188.1	114	Unspecified	N/A	cedar diameters smaller as you go south, more tag alder. NWSW Sec 17: 7 acre piece was cut in 1974 -- currently it is mostly residual WC, heavy tag, some black spruce saps 1-3" dbh. This stand was merged with current stand.																																															
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10	42290 - Natural Mixed Pine	Poletimber Medium	6.7	51	1-50	N/A	Stand cut 2018 Insider TS. Stand was mixed deciduous. Nothing coming in understory.																																															
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11	4110 - Sugar Maple Association	Sawtimber Well	18.4	100	81-110	N/A	Spring Hill TS cut 2006. 2023: BAs average 96. There are some broken tops and split trees, so may be a good opportunity to clean up, especially if harvesting anything nearby.																																															
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12	6118 - Lowland Deciduous with Cedar	Poletimber Well	2.7	83	Unspecified	N/A	large rock ridge bounds this stand on south.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>13</b>	429 - Mixed Upland Conifers	Sawtimber Well	18.0	95	81-110	N/A	The south half of this has a very steep east/west rock ridge, where most of the pine/cedar/hemlock is. Very diverse stand. North half more operable but trees only 8" dbh - will hold and put on more growth. Small tag swale separates north/south.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole	8	
White Pine	35	XLog/Log	16	95
Paper Birch	10	Pole	9	
Northern White Cedar	5	Pole	9	
Balsam Fir	8	Pole	7	
Red Maple	10	Pole	8	
White Spruce	5	Pole	9	
Sugar Maple	2	Pole	8	
Hemlock	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

<b>14</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	12.6	42	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Pole	9	42
Balsam Poplar	10	Pole	8	
White Spruce	10	Pole	8	
Red Maple	5	Pole	8	
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling

<b>15</b>	42200 - Natural White Pine	Sawtimber Medium	9.3	95	1-50	N/A	Neumann TS cut 2006; management objective was changed to white pine. Many rocky knobs, where most of the white pine is.
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Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	3	Pole	8	
Northern White Cedar	2	Pole	8	
White Pine	95	XLog/Log	16	95

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Quaking Aspen	High	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Log
White Spruce	Low	Variable	Sapling

<b>16</b>	6112 - Lowland Aspen	Sapling Poor	8.8	5	Immature	N/A	Sale cut 2018 Insider TS. White cedar pocket not holding up well. Some black spruce seedlings are starting to appear less than 2 feet tall.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	20	Sapling	1	
Northern White Cedar	5	Log/Pole	10	
Quaking Aspen	70	Sapling	1	5
Tamarack	5	Sapling	1	

<b>17</b>	4130 - Aspen	Sapling Well	8.5	36	Unspecified	N/A	Upper Skunk Creek Curve TS 1987
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Pole/Sapling	5	36

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>18</b>	6120 - Lowland Cedar	Poletimber Medium	238.5	114	Unspecified	N/A	species other than cedar found mostly along edges of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	7		Black Spruce	Low	Variable	Sapling
Tamarack	15	Pole	8		Tag Alder	High	< 5 feet	Tall Shrub
Balsam Poplar	5	Log	12		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	55	Pole	9	114				
White Spruce	5	Log/Pole	12					

<b>19</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	25.2	36	51-80	N/A	Evidence of SBW
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole/Sapling	5	36	White Spruce	Medium	Variable	Sapling
Balsam Fir	20	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
White Spruce	10	Sapling/Pole	4					

<b>20</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	21.4	48	Unspecified	N/A	Heavier to larger white spruce against lowland; trace of white birch and cedar. Much of larger white spruce is dead. Will hold and should be cut with adjacent stand next entry and stand 1 in adjacent compartment east of CR 581.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	80	Pole	9	48	White Spruce	Medium	Variable	Sapling
Balsam Fir	10	Pole	6					

<b>21</b>	622 - Lowland Shrub	Nonstocked	221.9		Unspecified	No	
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<b>22</b>	6111 - Lowland Balsam Poplar	Sapling Medium	10.7	15	Unspecified	N/A	Spruce Swamp TS 2008. Quaking aspen along south, nearer upland. Cedar was left as residual
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	80	Sapling	2	15	Black Spruce	Low	< 5 feet	Sapling
Tamarack	5	Sapling	1		Tag Alder	High	< 5 feet	Tall Shrub
Northern White Cedar	5	Pole	10					

<b>23</b>	4130 - Aspen	Poletimber Well	7.6	55	Unspecified	N/A	cut with adjacent stand next entry
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Hazelnut (American)	Medium	< 5 feet	Tall Shrub
White Spruce	3	Pole	7		White Spruce	Low	Variable	Sapling
Quaking Aspen	92	Pole	8	55	Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4130 - Aspen	Poletimber Well	75.7	22	Unspecified	N/A	Anderson Camp TS cut 1991. Does not have a heavy conifer component.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling	3		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		80	Pole/Sapling	6	22	White Spruce	Low	Variable	Sapling
Balsam Fir		5	Sapling/Pole	5		Hazelnut (American)	High	< 5 feet	Tall Shrub
White Spruce		5	Pole/Sapling	5		Sugar Maple	Low	>20 feet	Sapling
25	42110 - Planted Red Pine	Sapling Poor	9.3	3	Immature	N/A	Planted spring 2021.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		100	Sapling	1	3	Bracken Fern	Medium	Unspecified	Non-Wood
26	4130 - Aspen	Poletimber Well	35.5	55	Unspecified	N/A	Most of conifer is dead from SBW. South of road is 8" dbh/35 years old that was lumped in for management.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		5	Pole/Sapling	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen		85	Log/Pole	10	55	Red Maple	Medium	Variable	Sapling
Balsam Fir		3	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce		2	Pole/Sapling	6					
Paper Birch		5	Pole	9					
27	4130 - Aspen	Sapling Well	24.2	17	Unspecified	N/A	Pulp on the Rocks TS 2006; rocky outcrops heavier to red maple sprouts.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		70	Sapling	2	17				
White Spruce		5	Pole/Sapling	5					
Red Maple		20	Sapling	2					
Balsam Fir		5	Pole/Sapling	5					
28	6118 - Lowland Deciduous with Cedar	Poletimber Well	36.0	81	Unspecified	N/A	heavier black ash in far west, 8"dbh; heavier to white cedar east 1/2; north heavier to E3 type		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		3	Pole	7		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		35	Pole	9		Black Ash	High	Variable	Sapling
Balsam Poplar		5	Log/Pole	12					
Black Ash		45	Pole	8	81				
Paper Birch		10	Pole	9					
Black Spruce		2	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
29	4130 - Aspen	Poletimber Well	26.7	55	Unspecified	N/A	Far south strip is on northfacing rock and has small dbh; some remnants of overgrown white spruce. hemlock in far northeast pocket, many are snags. Most of WS/BF overstory is dead or blown down. South of road is smaller stump sprout red maple, 5" dbh	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		5	Pole	7		Balsam Fir		
Quaking Aspen		65	Log/Pole	10	55	White Spruce		
White Spruce		4	Pole	7		Red Maple		
Paper Birch		5	Pole	9				
Hemlock		1	Log/Pole	10				
Balsam Poplar		5	Log/Pole	12				
Red Maple		15	Pole	6				
30	4130 - Aspen	Sapling Well	21.3	17	Unspecified	N/A	Pulp on the Rocks TS 2006. Red & white pine, aspen on west as buffer to creek on steep slope. Some rock outcrops	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Quaking Aspen		65	Sapling	2	17			
Balsam Fir		10	Sapling/Pole	4				
Red Maple		16	Sapling	2				
White Spruce		5	Pole/Sapling	5				
Red Pine		2	XLog/Log	16				
White Pine		2	XLog/Log	16				
31	4134 - Aspen, Spruce/Fir	Poletimber Well	73.1	36	Unspecified	N/A	Felch Mtn Flooding East TS 1987. Most of spruce/fir and red maple on rocks. Steep rock ridge in northeast corner. Some scattered mature aspen, some white birch regeneration. Plenty of rock knobs, terrain. Autumn olive all over edges of stand and creeping within.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Spruce		10	Pole/Sapling	6		Balsam Fir		
Balsam Fir		10	Pole/Sapling	6		Hazelnut (American)		
Quaking Aspen		70	Pole/Sapling	6	36	White Spruce		
Red Maple		10	Pole/Sapling	5				
32	4130 - Aspen	Sapling Well	79.1	6	Immature	N/A	Leave cedar, Stand was harvested in 2017 with Felch Flooding Precipice TS. Some rock faces/cliff areas. Retention along stream on east side.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Poplar		10	Sapling	1		White Spruce		
Red Maple		30	Sapling	1		Black Spruce		
Quaking Aspen		60	Sapling	1	6			
33	6120 - Lowland Cedar	Poletimber Well	37.2	101	Unspecified	N/A	cedar diameter ranges from 5-12"; cedar not doing well: small, thin crowns. Most of tamarack/black spruce is visible from snowmobile trail on east side along upland. Thick cedar further north and west. Trace of white birch and balm of gilead.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Tamarack		10	Pole	7		Balsam Fir		
Black Spruce		5	Pole	8		Tag Alder		
Balsam Fir		5	Pole	7				
Northern White Cedar		80	Pole	7	101			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
34	4130 - Aspen	Sapling Well	7.5	13	Unspecified	N/A	Some ice damage wish bent over trees. So Inclined TS cut 2009																																																																					
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35	4110 - Sugar Maple Association	Poletimber Well	27.0	96	111-140	N/A	So Inclined TS 2009. Aspen coming in under near clearcut units. Some broken tops and snapped trees. Many draws and ridges. BAs: 100, 140, 140, 100, 110, 120, 80=113																																																																					
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Leatherwood	Low	< 5 feet	Tall Shrub																																																																									
36	4130 - Aspen	Poletimber Well	52.1	32	Unspecified	N/A	Southwest lobe was a separate timber sale in 1997 but difficult to distinguish as a separate cut and therefore lumped with sale cut in 1991. Much of spruce/fir overstory is on rock knobs in clumps.																																																																					
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37	4139 - Aspen, Mixed Deciduous	Poletimber Medium	33.3	33	Unspecified	N/A	Very mixed stand; aspen dbh ranges from 6-10". More mature, larger trees along snowmobile trail/rock and swamp edges. Some low rocky areas, some steep rock knobs with stunted regeneration. Steep slope on far south; low areas have black ash.																																																																					
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38	6120 - Lowland Cedar	Poletimber Well	27.4	95	Unspecified	N/A	East portion is very stunted cedar.																																																																					
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39	629 - Mixed non-forested wetland	Nonstocked	92.4		Unspecified	No																																																																						



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41	6120 - Lowland Cedar	Poletimber Well	11.5	95	Unspecified	N/A	Stream flows westerly into the marsh through this stand; center of stand has a lowland pocket without trees.																																																						
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42	4130 - Aspen	Sapling Well	29.2	25	Unspecified	N/A	Tracking Snow TS 1998. Balsam/spruce residual on north/northwest edge on rocks as buffer																																																						
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43	4130 - Aspen	Poletimber Well	36.2	57	Unspecified	N/A	Larger diameter aspen in south quarter of stand. Rock knob on far south where red maple is struggling (no soil). Some other rock knobs along east line. Stand is holding well. Conifer heavier on far north. Conifer has fallen out except for a few submerchantable pockets.																																																						
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44	6224 - Treed Bog	Nonstocked	32.8		Unspecified	No																																																							
46	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	19.9	81	Unspecified	N/A	Cedar is concentrated in center of stand; Lots of black ash saplings, particularly in the south half, heavily browsed. Stand density decreases as you go south.																																																						
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47	4130 - Aspen	Sapling Well	23.2	15	Immature	N/A	Rock Cuts TS 2008; adequate regen but less aspen on rock faces and north facing slope																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	6118 - Lowland Deciduous with Cedar	Poletimber Well	17.6	95	Unspecified	N/A	more pure black ash on east 1/3; drainage with bed and bank 2023: aerial is showing some dying cedar along west line.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
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Balsam Poplar		7	Log/Pole	12		Tag Alder	Medium	< 5 feet	Tall Shrub
49	4110 - Sugar Maple Association	Poletimber Well	6.6	95	51-80	N/A	Thinned in spring 2018 with Small Potatoes TS 10/29/2023: BAs: 70,50,90		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		5	Pole/Log	10		Ironwood	Medium	Variable	Sapling
Basswood		35	Log/Pole	12		Sugar Maple	High	10 - 20 feet	Sapling
Sugar Maple		60	Pole/Log	9	95				
50	4130 - Aspen	Sapling Poor	12.0	5	Immature	N/A	Rocky ridge and knob; stand was cut in spring 2018 with Small Potatoes TS. Stand was a mix of low quality red/sugar maple, aspen, spruce/fir. Aspen only on far west 1/3 of stand. East is on a rock knoll that has ironwood coming in.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		90	Sapling	1	5				
Red Maple		10	Sapling	1					
51	4130 - Aspen	Sapling Well	4.5	6	Immature	N/A	Stand was cut March 2017 with Small Potatoes TS.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Sapling	1					
Quaking Aspen		75	Sapling	1	6				
Balsam Poplar		15	Sapling	1					
52	6115 - Lowland Ash	Poletimber Well	42.3	95	Unspecified	N/A	Drainage in west flowing westerly		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		2	Pole	9		Balsam Fir	Low	Variable	Sapling
Black Ash		75	Pole	8	95	Tag Alder	Medium	< 5 feet	Tall Shrub
Balsam Poplar		15	Log/Pole	11		Black Ash	High	Variable	Sapling
Northern White Cedar		3	Pole/Log	10					
Paper Birch		5	Pole	7					
53	4130 - Aspen	Sapling Well	7.2	24	Unspecified	N/A	Bradley TS 1999. On rock knob		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Sapling	3		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Quaking Aspen		60	Sapling	3	24	Black Ash	Low	Variable	Sapling
Balsam Fir		7	Pole	7		Hazelnut (American)	High	< 5 feet	Tall Shrub
Black Cherry		3	Sapling	4					
Balsam Poplar		15	Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
54	330 - Low-Density Trees	Nonstocked	9.4	0	Unspecified	613 - Lowland Mixed Forest	2023: snow covered but no aspen or tamarack showing yet. Small Potatoes TS cut 2018.																																																								
55	6121 - Tamarack	Poletimber Well	20.6	95	Unspecified	N/A	a few scattered, larger tamarack & black spruce. This stand has been filling in slowly since at least 1930s, per 1939 photo. 3/9/23: still 5-7" dbh tamarack and BS. Reluctant to harvest given the stand to south hasn't regenerated any tamarack yet.																																																								
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57	4139 - Aspen, Mixed Deciduous	Poletimber Well	211.7	41	Unspecified	N/A	A few ash/balm swales, particularly in center of stand running east/west.. Stand is littered with rock knobs/outcrops. Much of conifer is along snowmobile trail and north lobe and on rock knobs.																																																								
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400	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No																																																									
401	320 - Upland Shrub	Nonstocked	17.3	0	Unspecified	No	Thick with autumn olive throughout. Filling in with Cherry 3" dh, white spruce, 7"dbh, balsam 5% 7"dbh, tamarack 5% 3"dbh.																																																								