



# Compartment Review Presentation

## Crystal Falls Forest Management Unit

Compartment 12061

Entry Year 2026

Acreage: 2,683

County Dickinson

Management Area: Ralph Moraine

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**Stand Examiner:** Deb Goupell

**Legal Description:**

T42N R28W Sec 15-17, 20-26, 36

**Identified Planning Goals:**

This compartment is almost half upland and half lowland, the majority of the lowland being cedar. Aspen and northern hardwoods make up an equal amount of the upland cover type with a minor mix of upland combinations comprising the rest. 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 and selectively harvest on an alternating 20 year rotation.

**Soil and topography:**

The majority of the lowland is dominated by Carbondale and Cathro mucks with the river floodplains being a Waucedah-Cathro complex. Fine sandy loams and loamy sands, which are well drained soils found on level to rolling hills, dominate the uplands.

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

The compartment has much private land mixed in with State land. State land adjoins the compartment on the north side, with private on all the other sides. The area is heavily used by loggers, hunters, fisherpeople, campers, trappers, general recreationists.

**Unique Natural Features:**

East Branch of the Sturgeon River, Skunk Creek

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

This has been identified as obligate deer winter range.

**Watershed and Fisheries Considerations:**

Protect water quality for all bodies of water, particularly the Skunk Creek and East Branch of the Sturgeon River. Promote long lived conifer species along these waterbodies and use adequate buffer protection.

**Wildlife Habitat Considerations:**

The Sturgeon River Deer Wintering Complex makes up a good portion of this compartment. Conifer components of the treated stand should be retained and enhanced/regenerated to provide quality thermal cover and snow intercept values. Age class diversity in aspen stands is essential for species such as goshawk and red-shouldered hawks which inhabit this compartment.

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

No known potential exists for commercial oil & gas production in this part of the state. Current and past aggregate mining activity exists just south of the compartment. There also has been mining of dolomitic marble of the Randville Dolomite from the Metronite Quarry, south of the compartment. Most of the compartment consists of low wetlands, and potential for significant surface mining may be limited. The compartment is north of the historic Felch iron ore exploration and mining district. Some past iron exploration occurred on the northern edge of the compartment and documented some iron formation beneath the compartment in that area, but few details are available, and potential for development of iron ore is considered low. There has been some interest in exploring and testing Michigan iron formations in the region for disseminated gold, but thus far activities related to this concept have primarily only involved leasing mineral acreage and little exploration/testing. There are currently no active mineral leases within the compartment.

**Vehicle Access:**

Skunk Creek Road access the majority of this compartment in addition to a number of poor, two-track roads. Access south

of the East Branch of the Sturgeon is primarily through private.

**Survey Needs:**

Section 25

**Recreational Facilities and Opportunities:**

Hunting, dispersed camping, fishing, trapping, hiking, canoeing

**Fire Protection:**

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

**Additional Compartment Information:**

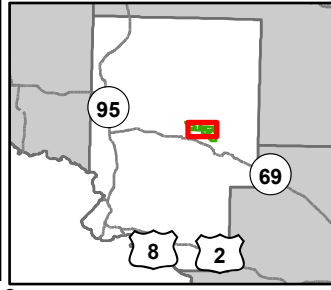
**The following reports from the Inventory are attached:**

- 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**

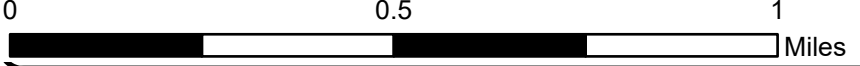
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

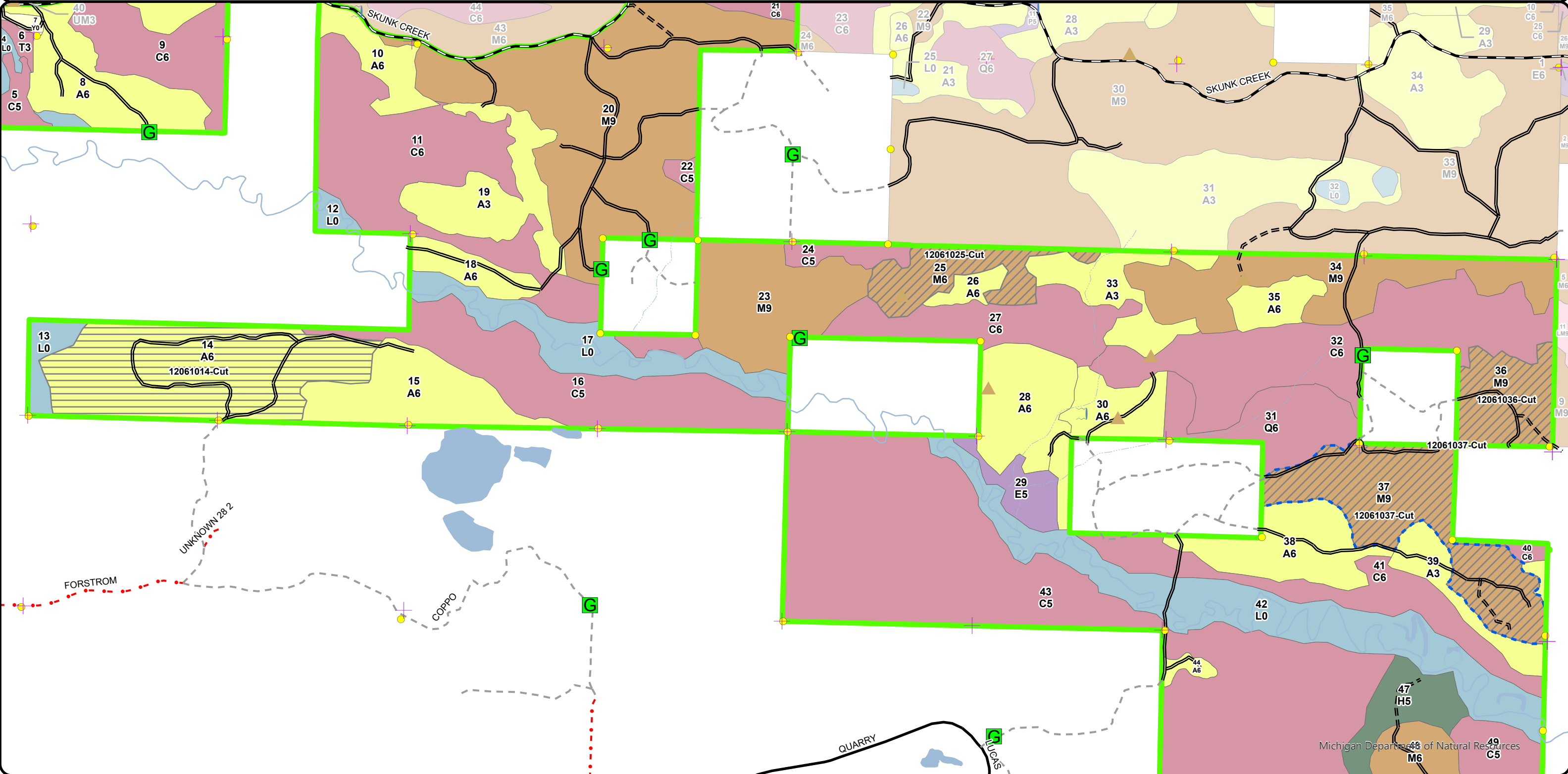
Cover Type & Treatments Map



Compartment: 12061  
 T42N, R28W, Sec: 15-17, 20-26, 36  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Moraine  
 YOE: 2026  
 Acres: 2682.5 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 07/15/2024  
 Map Phase: Web - Post

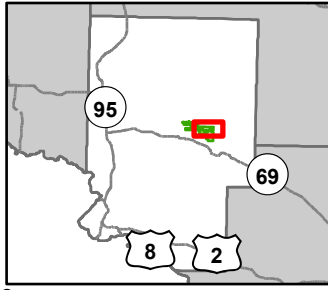


- Berms
- Gate
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 710 - Sand/Soil



**Special Conservation Areas  
& Site Conditions Map**

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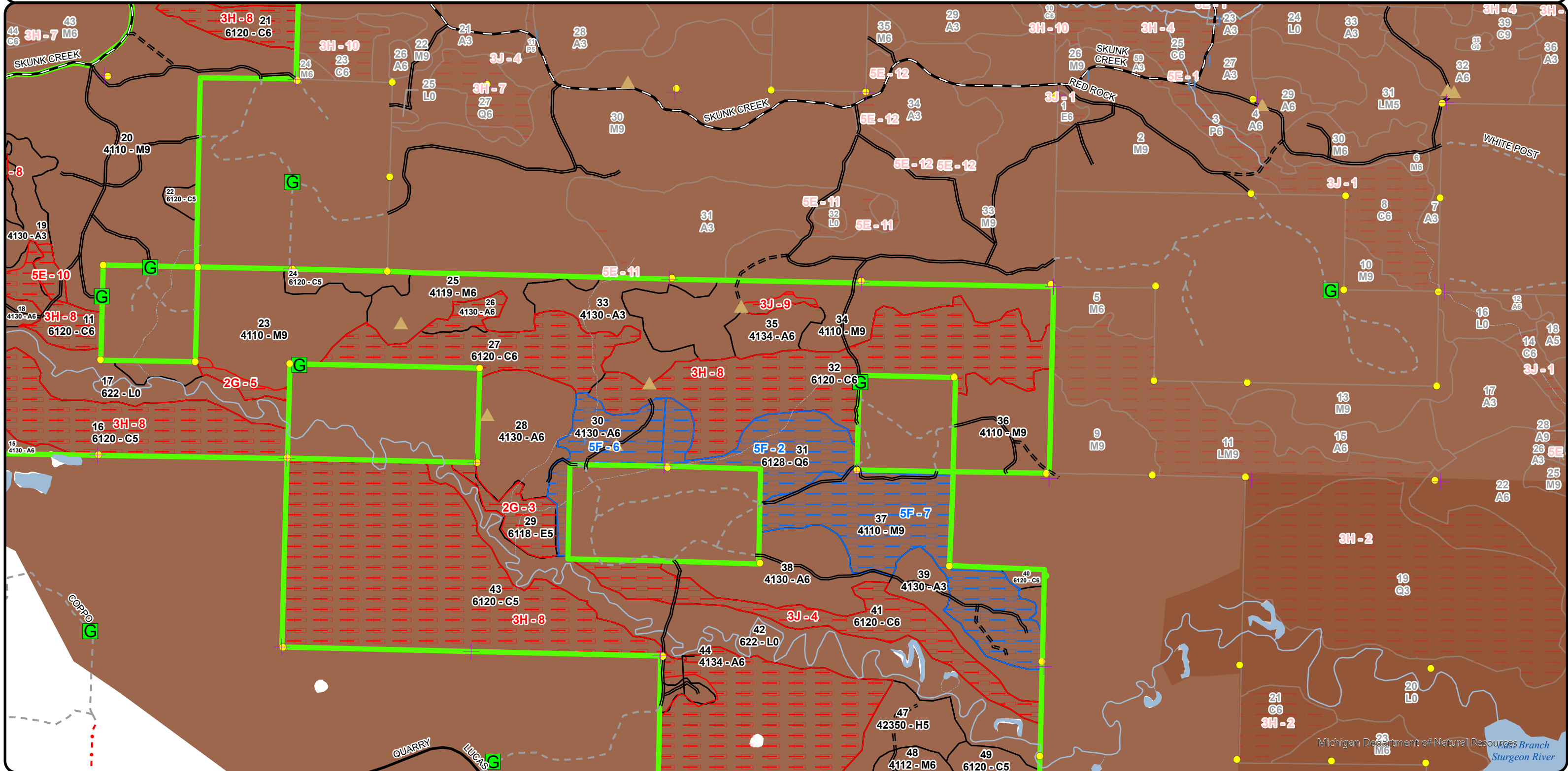


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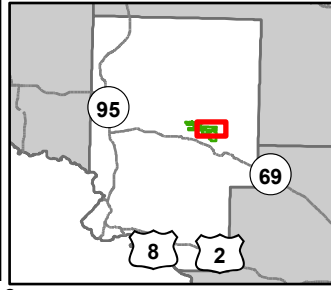
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- Available w/ Constraints

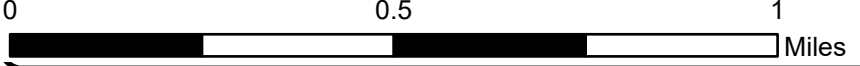
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- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range
- Wildlife Research Areas



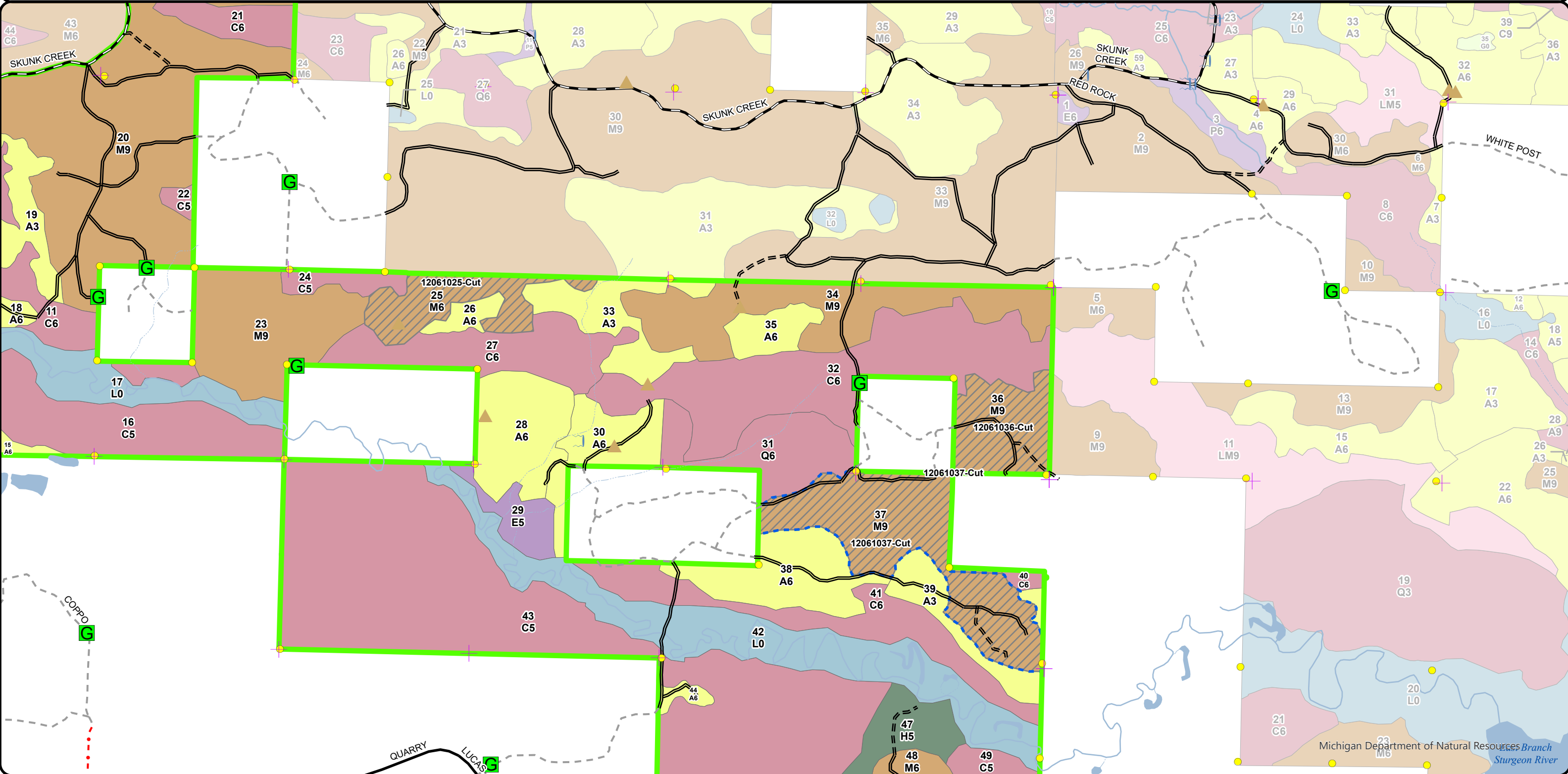
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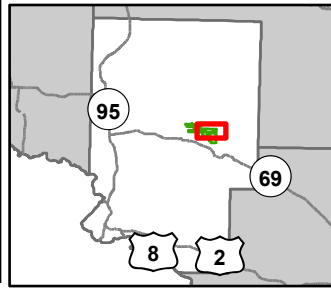
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- ▭ Counties
- ▭ Treatments with Site Conditions
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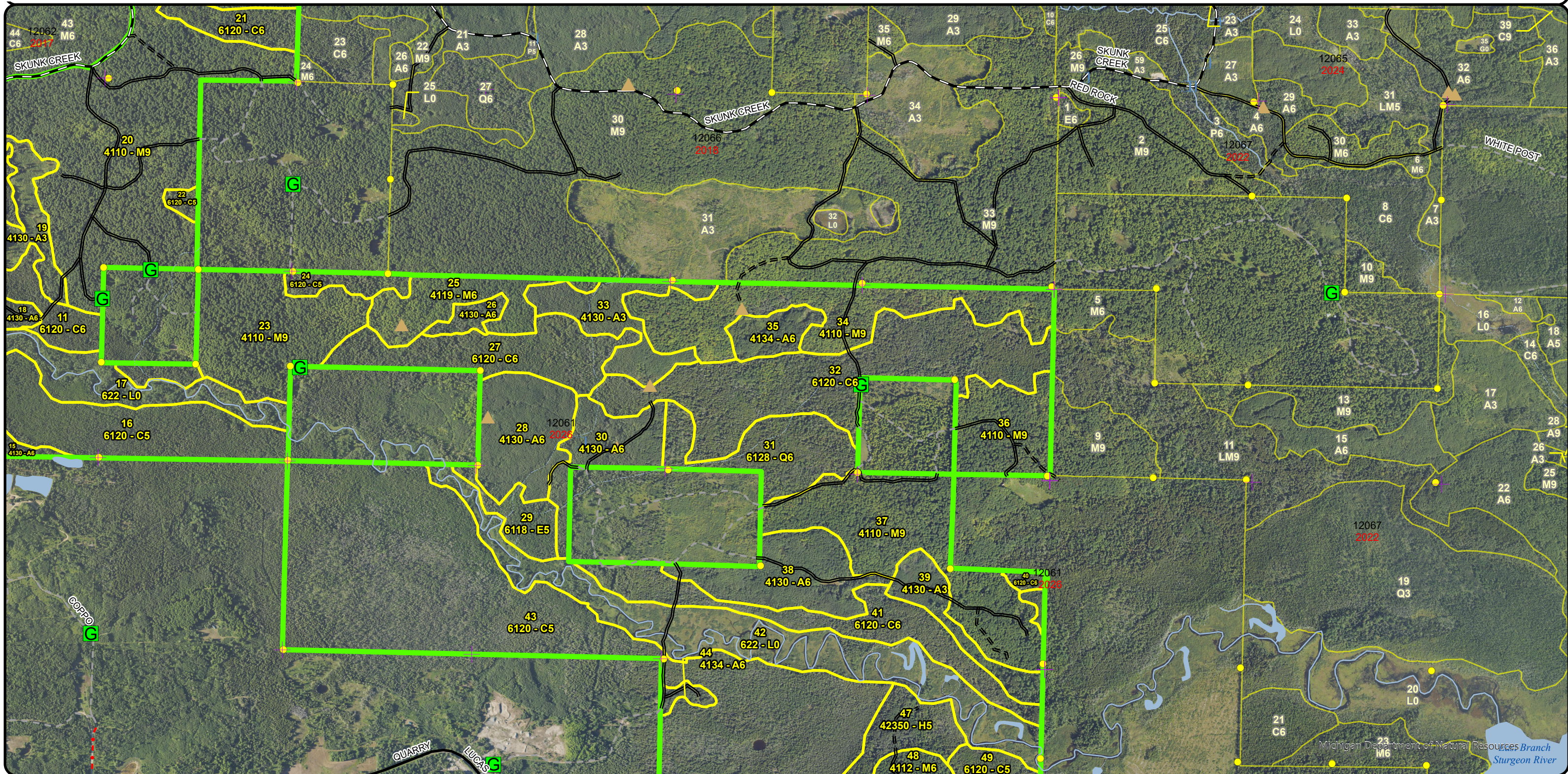
Stand Boundary Map



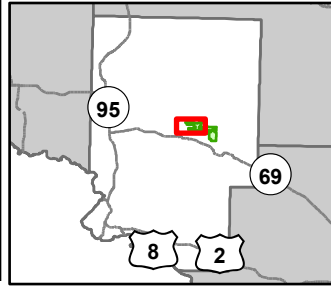
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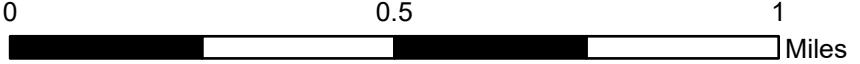
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**Special Conservation Areas & Site Conditions Map**



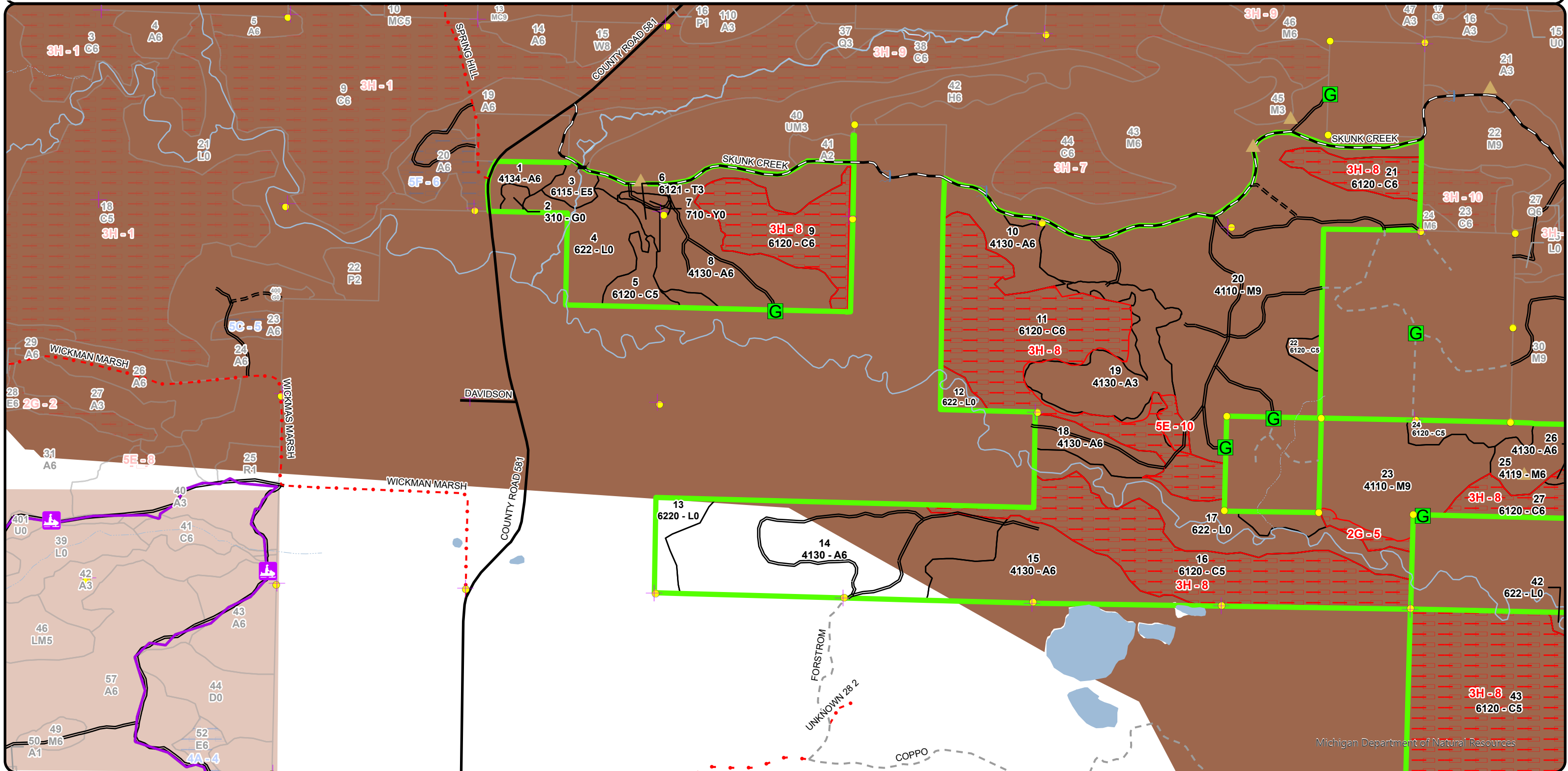
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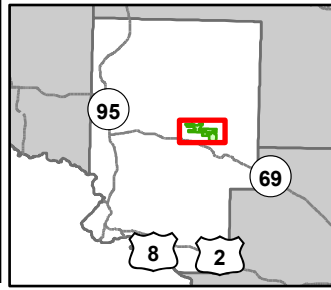
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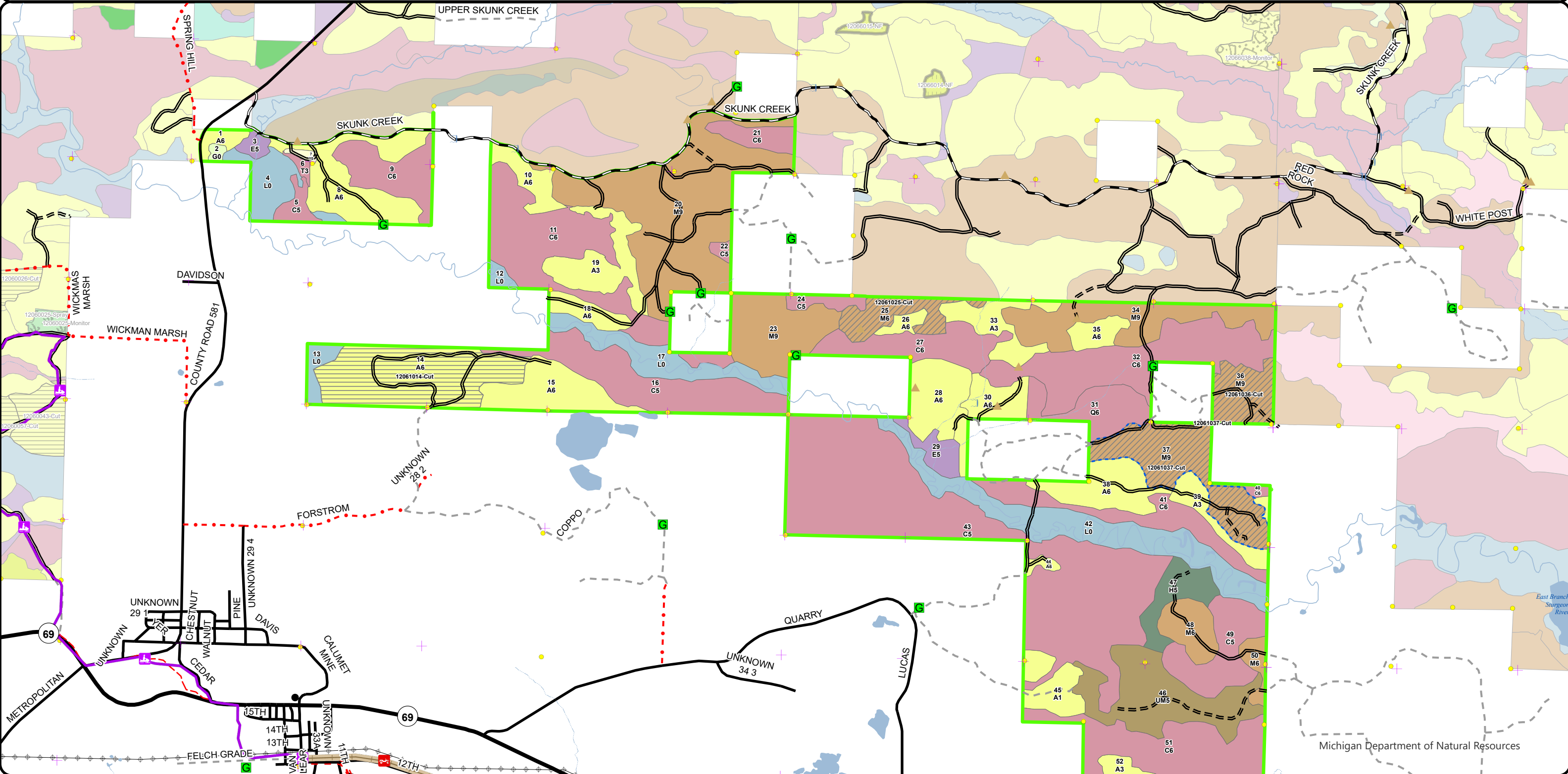
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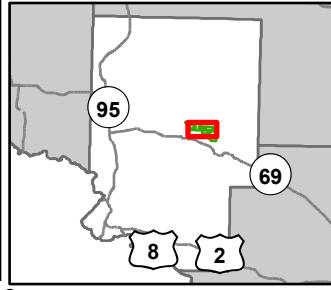
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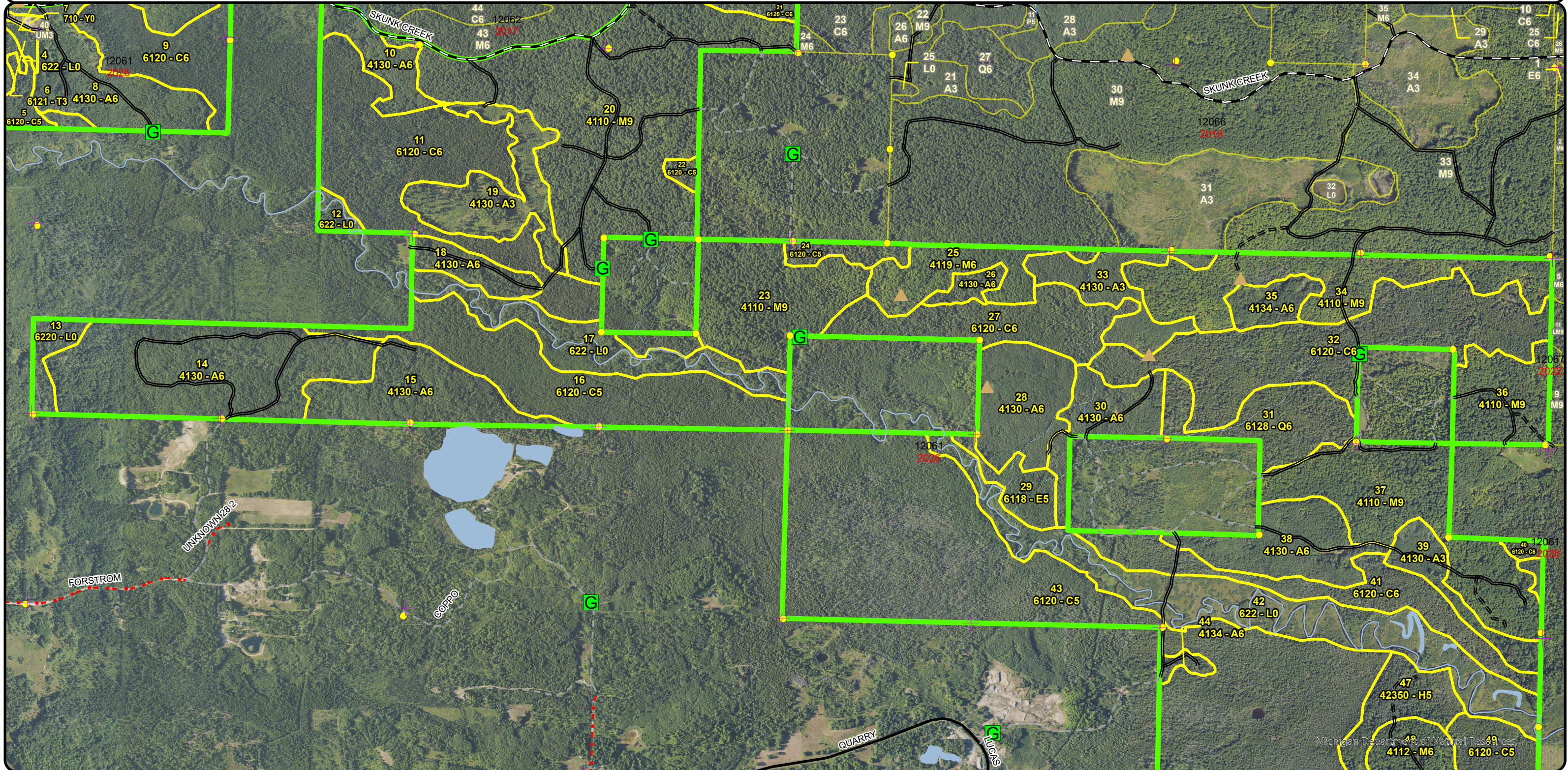
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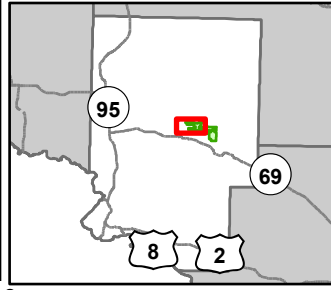
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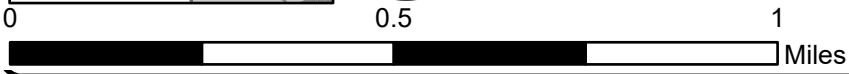
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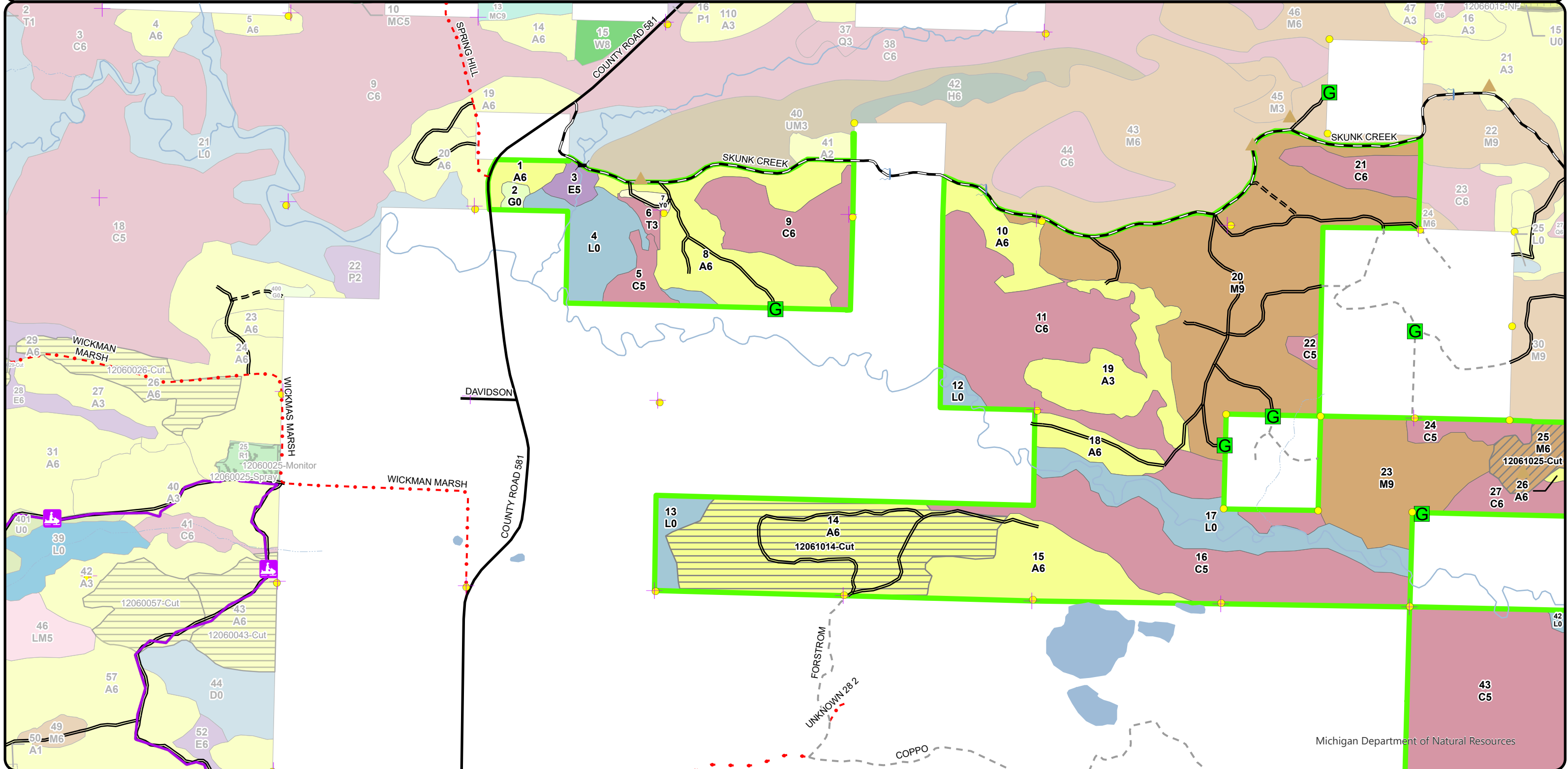
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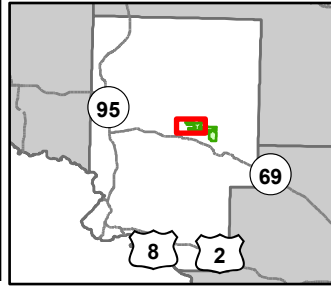
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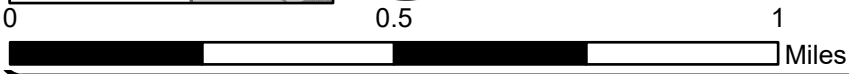
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|--------------------------------|---|-------------------------------------|-----------------------------------|
| ▲ Berms                        | — Designated Snowmobile Trails          | — Lake/Pond                         | ■ 413 - Aspen Types               |
| ■ Gate                         | — DNR - Primary Forest Road             | — Perennial River                   | ■ 611 - Lowland Deciduous Forest  |
| ⚡ Bridges                      | — DNR - Secondary Forest Road           | ■ Lakes and Rivers                  | ■ 612 - Lowland Coniferous Forest |
| ⌒ Culvert                      | == DNR - Forest Access Route            | ■ Compartment Boundary              | ■ 310 - Herbaceous Openland       |
| ● Survey Grade Corners         | — Federal / State / County - Paved Road | ▭ Counties                          | ■ 622 - Lowland Shrub             |
| ⊕ Remonumented Section Corners | - - - County - Gravel Road              | ▭ Clearcut (w/Reserves)             | ■ 710 - Sand/Soil                 |
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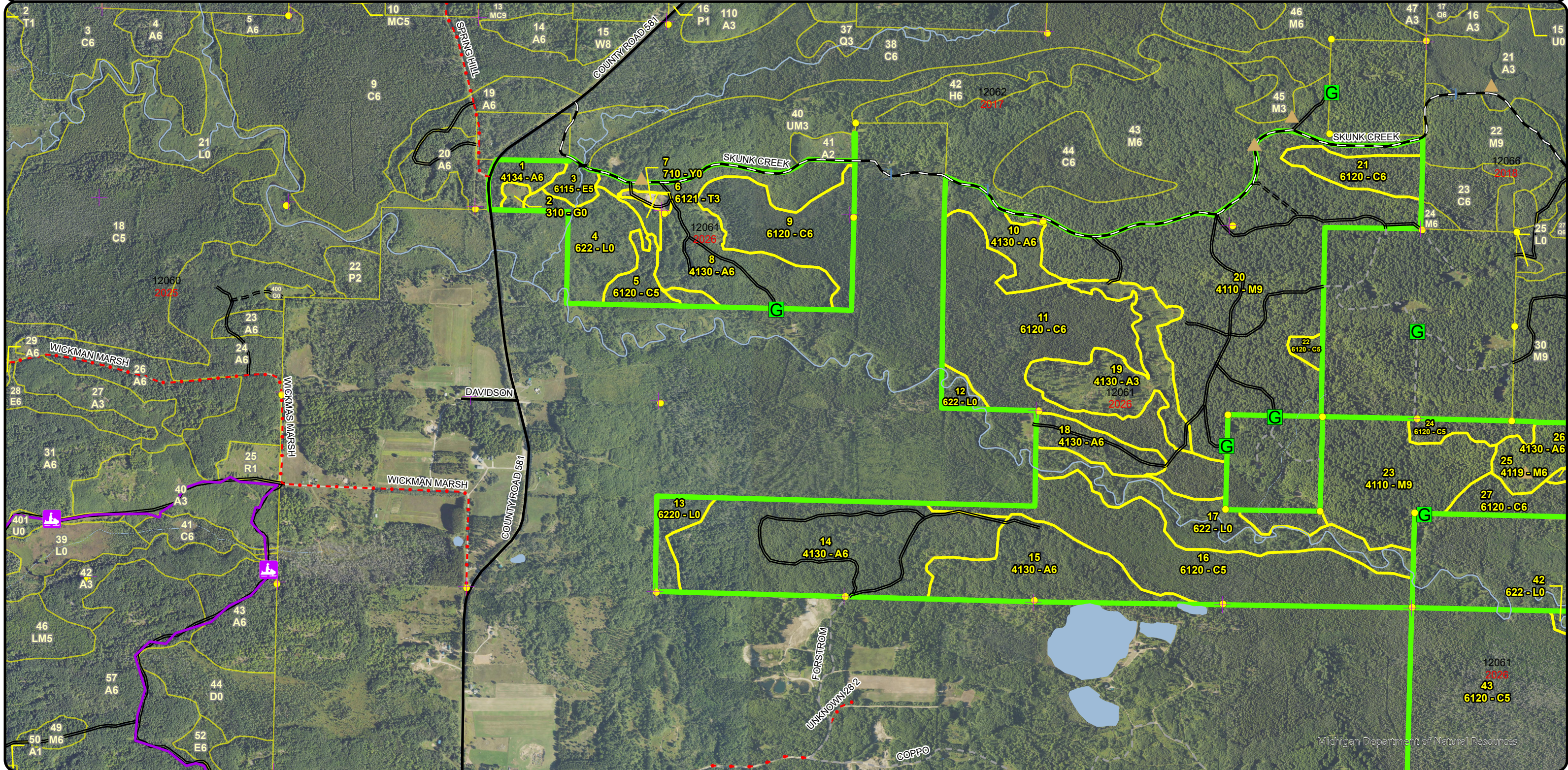


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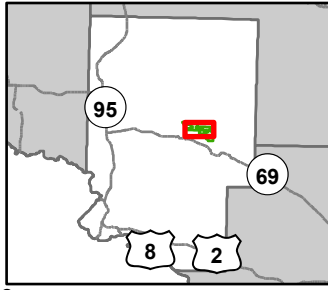
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**Special Conservation Areas & Site Conditions Map**

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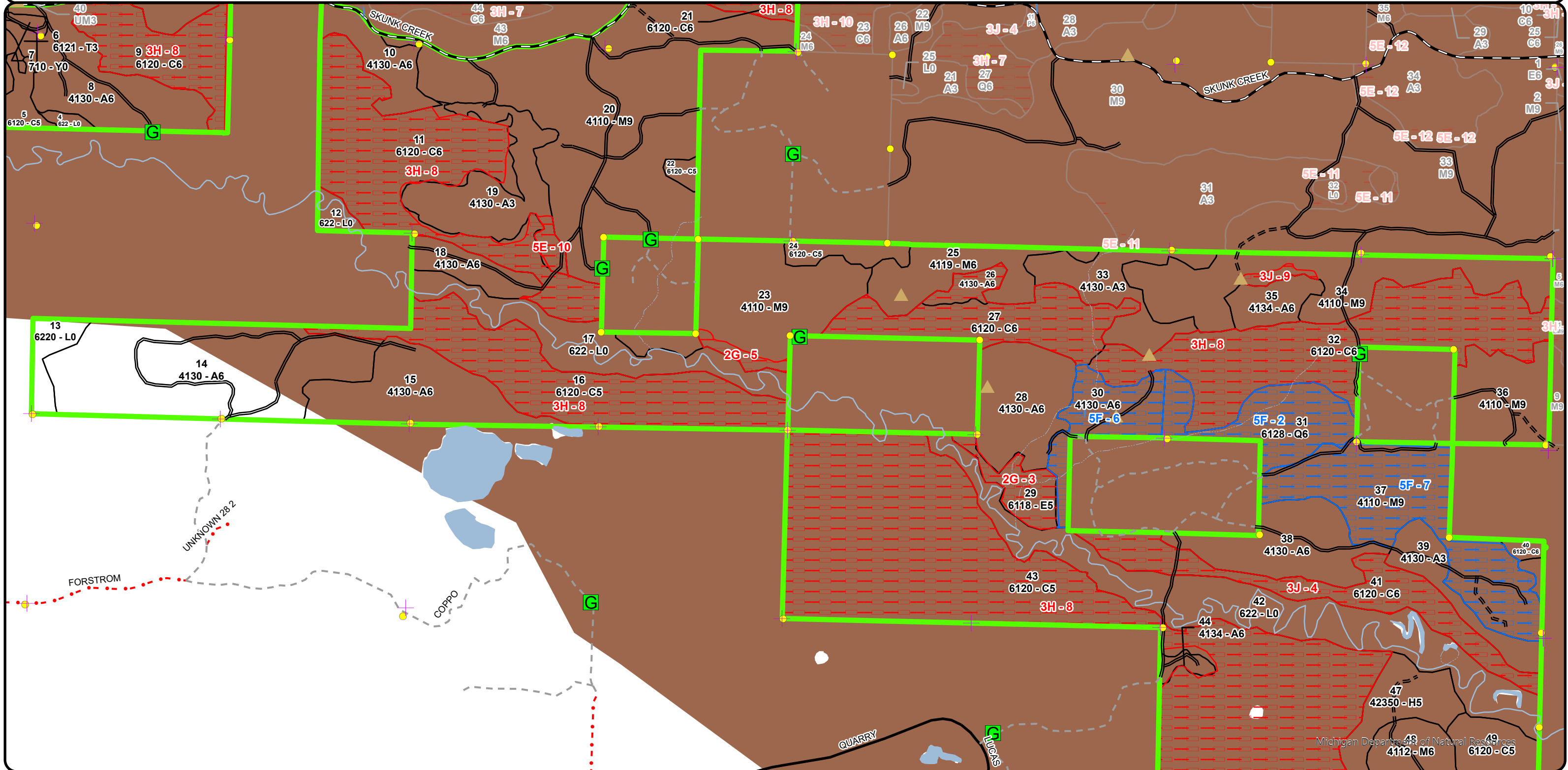


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Report 1 – Total Acres by Cover Type and Age Class



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	48	70	46	273	155	0	8	0	0	0	0	0	0	0	0	0	0	600
Cedar	0	0	0	0	0	0	0	0	0	0	32	956	102	0	0	0	0	0	1090
Hemlock	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	32
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	43
Lowland Deciduous	0	0	0	0	0	0	0	0	7	0	17	0	0	0	0	0	0	0	24
Lowland Shrub	214	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	575	0	0	0	0	0	0	0	575
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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0	98
<b>Total</b>	<b>220</b>	<b>48</b>	<b>70</b>	<b>50</b>	<b>371</b>	<b>155</b>	<b>0</b>	<b>8</b>	<b>7</b>	<b>0</b>	<b>624</b>	<b>1031</b>	<b>102</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2686</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 61  
Total Compartment Acres: 2,683

Commercial Harvest - 192  
Harvests with Site Condition - 90  
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	119	0	0	0	0	0	0	0	0	119
Northern Hardwood	0	0	0	0	164	0	0	0	0	164
<b>Total</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>164</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>283</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	283	0	0	0	0	0	0	0	0	283
Next Step	0	0	0	0	0	119	0	0	0	119
<b>Total</b>	<b>283</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>402</b>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

**Proposed Treatments:**

<b>14</b>	<b>12061014-Cut</b>	118.6	4130 - Aspen	Poletimber Well	40	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all stems 3" and greater except red pine, white pine, cedar. Leave 3 to 4 retention patches approximately 2 to 4 acres in the heaviest spruce/fir areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed softwood, mixed hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Determine these retention patches during the time of sale prep.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>25</b>	<b>12061025-Cut</b>	34.9	4119 - Mixed Northern Hardwoods	Poletimber Well	97	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin to 70 BA following Compleat Marker guidelines, favoring desirable crop trees and removing those with cankers, broken limbs, crooks, etc. Leave a representation of all species present within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood</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 /2025</p>											
<b>36</b>	<b>12061036-Cut</b>	39.0	4110 - Sugar Maple Association	Sawtimber Well	97	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand to BA 70 following the Compleat marker, focusing on releasing crop tree crown and removing those trees more susceptible to not lasting until next entry. Do not cut pine, cedar or hemlock. Leave a representation of all species present within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood</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 /2025</p>											
<b>37</b>	<b>12061037-Cut</b>	90.4	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand to BA 70 following the Compleat marker, focusing on releasing crop tree crown and removing those trees more susceptible to not lasting until next entry. Do not cut pine, cedar or hemlock if present. Leave a representation of all species present within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Evaluated for Forest Health</p> <p><u>Proposed Start Date:</u> 10/1 /2025</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: 282.9



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 61  
 Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5F	2G	3H	3J	5E
599	554	<b>32</b>	13	Aspen	32	1	8	0	5
1088	217	<b>0</b>	871	Cedar			816	55	
32	32	<b>0</b>	0	Hemlock					
3	3	<b>0</b>	0	Herbaceous Openland					
43	0	<b>43</b>	0	Lowland Conifers	43				
24	8	<b>0</b>	16	Lowland Deciduous		16			
214	214	<b>0</b>	0	Lowland Shrub		0			
577	479	<b>89</b>	9	Northern Hardwood	89	5		3	
3	3	<b>0</b>	0	Sand, Soil					
4	4	<b>0</b>	0	Tamarack					
98	98	<b>0</b>	0	Upland Mixed Forest					
2,685	1,611	<b>164</b>	909	Total Forested Acres	164	22	825	58	5
	60%	<b>6%</b>	34%	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
2	Available	<b>5F: Evaluated for Forest Health Considerations</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is mostly cedar and black ash. Evaluated 2017							
3	Unavailable	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 61

Year of Entry: 2026

4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	55	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 40% of stand is cedar							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	89	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	825	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Crystal Falls Mgt. Unit**

**Deb Goupell : Examiner**

**Compartment: 61**

**Year of Entry: 2026**

10	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	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
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**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.
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	4134 - Aspen, Spruce/Fir	Poletimber Well	9.3	37	Unspecified	N/A																																																			
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2	310 - Herbaceous Openland	Nonstocked	2.9		Unspecified	No																																																			
3	6115 - Lowland Ash	Poletimber Medium	7.2	70	Unspecified	N/A	very wet																																																		
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4	622 - Lowland Shrub	Nonstocked	34.8		Unspecified	No																																																			
5	6120 - Lowland Cedar	Poletimber Medium	11.5	93	Unspecified	N/A	Several ash swales in here with evidence of EAB.																																																		
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6	6121 - Tamarack	Sapling Well	3.6	26	Unspecified	N/A	Sand Pit tsale cut1998																																																		
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7	710 - Sand, Soil	Nonstocked	2.8		Unspecified	No																																																			
8	4130 - Aspen	Poletimber Well	72.1	38	Unspecified	N/A	most of jack pine directly adjacent to sand pit; far northeast shows some aspen dieback. Sand Pit TS 1986. Trace red pine and white birch. Top of hill (along south line) aspen is closer to 9-10" while rest of stand aspen ranges from 5-8" dbh																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
9	6120 - Lowland Cedar	Poletimber Well	47.6	110	Unspecified	N/A	north 1/3 stand is 64 year old black spruce with dbhs ranging from 4-8". Sphagnum hummocks.																													
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11	6120 - Lowland Cedar	Poletimber Well	124.6	102	Unspecified	N/A	Good tight crown closure throughtout most of the stand																													
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13	6220 - Alder/willow	Nonstocked	12.3		Unspecified	No																														
14	4130 - Aspen	Poletimber Well	118.6	40	Unspecified	N/A	Severe spruce/fir mortality in this stand. Traces of black spruce on north edge; traces of white pine, red pine.																													
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15	4130 - Aspen	Poletimber Well	54.9	35	Unspecified	N/A	Coyote Corner TS cut 1988																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	6120 - Lowland Cedar	Poletimber Medium	96.8	107	Unspecified	N/A			
<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>
Northern White Cedar		72	Pole	10	107	Tag Alder	Medium	< 5 feet	Tall Shrub
Black Spruce		10	Pole	8					
Tamarack		8	Pole	8					
Balsam Poplar		5	Log/Pole	12					
White Spruce		5	Pole	10					
17	622 - Lowland Shrub	Nonstocked	51.3		Unspecified	No			
18	4130 - Aspen	Poletimber Well	17.8	38	Unspecified	N/A	Camp on the Rocks cut 1986. South of road is all rock ledge with spruce mortality.		
<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		10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
White Spruce		5	Pole	6		White Spruce	Low	Variable	Sapling
Paper Birch		10	Sapling	2					
Quaking Aspen		75	Pole	7	38				
19	4130 - Aspen	Sapling Well	48.0	5	Immature	N/A	Sugar Shack TS cut spring 2020. Small pocket of hardwood in center of south lobe is retention with sugar maple and red maple residuals.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		15	Sapling	1					
Quaking Aspen		75	Sapling	1	5				
White Pine		5	XLog/Log	16					
Northern White Cedar		5	Pole	9					
20	4110 - Sugar Maple Association	Sawtimber Well	217.3	97	81-110	N/A	Skunk Creek Hwd South thinned 1999. Sugar Shack TS completed 2020.		
<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>
Hemlock		2	Pole/Log	11		White Ash	Medium	10 - 20 feet	Sapling
Paper Birch		3	Pole	10		White Spruce	Low	Variable	Sapling
Sugar Maple		65	Log/Pole	12	97	Ironwood	Medium	Variable	Sapling
Basswood		30	Log/Pole	14		Leatherwood	Low	< 5 feet	Tall Shrub
						Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
21	6120 - Lowland Cedar	Poletimber Well	19.6	97	Unspecified	N/A	drainage flows west out of here. Much of the other species are falling out, especially the balsam and spruce.		
<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		5	Pole	7		Tag Alder	Medium	< 5 feet	Tall Shrub
White Spruce		5	Log/Pole	10		White Spruce	Low	Variable	Sapling
Balsam Poplar		5	Log/Pole	12					
Northern White Cedar		75	Pole	9	97				
Yellow Birch		10	Pole/Log	11					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
22	6120 - Lowland Cedar	Poletimber Medium	3.8	101	Unspecified	N/A	much of the balsam and spruce and balm of gilead have blown down																																															
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23	4110 - Sugar Maple Association	Sawtimber Well	70.6	97	81-110	N/A	thinned Skunk Creek Hwd South 1999. Trees verified on site with canopy cover in 1939 photos. Sugar Shack TS 2020 thinned. some white ash saplings.																																															
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24	6120 - Lowland Cedar	Poletimber Medium	11.4	102	Unspecified	N/A	ash heavier on west side																																															
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25	4119 - Mixed Northern Hardwoods	Poletimber Well	34.9	97	111-140	N/A	Git R Done TS cut 2008. 2024 average BA = 107																																															
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26	4130 - Aspen	Poletimber Well	7.6	67	Unspecified	N/A	Stand has some gullies and lowland. Mature aspen pocket.																																															
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27	6120 - Lowland Cedar	Poletimber Well	54.1	110	Unspecified	N/A	East half of this stand had a habitat cut in 2001 where aspen, birch, bam, spruce/fir and maple were removed. There is heavy sugar maple, red maple, balm regeneration in this area, particularly on the stand edges; many shorter maple stems are browsed to bushes. West end has some blowdown along drainages.																																																							
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28	4130 - Aspen	Poletimber Well	46.0	24	Immature	N/A	Sturgeon River aspen TS 2000; aspen dbh ranges from 4-7"; low conifer component in understory. Scattered buckthorn 2-20 feet tall. Smaller diameter aspen in south																																																							
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29	6118 - Lowland Deciduous with Cedar	Poletimber Medium	16.9	95	Unspecified	N/A	very wet, at least 2 separate drainages with bed and bank in here.																																																							
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30	4130 - Aspen	Poletimber Well	32.1	40	Unspecified	N/A	More buckthorn in here, 10-20 feet tall. Wet swale in center with balm of gilead, white spruce, tag (possible headwaters of drainage in here)																																																							
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31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	43.2	108	Unspecified	N/A	Far west finger has a couple acres of upland, mature aspen.. Also a couple upland acres on far east along road near private land. Stream runs through stand; ash pocket in center.																																																							
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<b>32</b>	6120 - Lowland Cedar	Poletimber Well	124.4	107	Unspecified	N/A	Tall trees, good diversity, thick canopy. Pocket of mixed hardwood, conifer on a knob on north central. Most of aspen and balm of gilead on outer edges of stand. Several drainages.																																														
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<b>33</b>	4130 - Aspen	Sapling Well	34.0	34	Immature	N/A	Dead Deer TS cut 1990; most of white spruce/balsam is along road																																														
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<b>34</b>	4110 - Sugar Maple Association	Sawtimber Well	79.4	97	81-110	N/A	Stand was thinned in 2018, Fawn Naps. Basswood has evidence of leaf defoliation (thrips?)																																														
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<b>35</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	15.5	33	Unspecified	N/A	stand has some open areas but they are filling in with small conifers																																														
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<b>36</b>	4110 - Sugar Maple Association	Sawtimber Well	39.2	97	81-110	N/A	Git R Done cut 2008. Average BA 111																																														
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<b>37</b>	4110 - Sugar Maple Association	Sawtimber Well	91.3	97	111-140	N/A	Git R Done TS cut 2008; trace of hemlock, red maple, cedar and white pine. Sugar maple diameters from 8-16". Average BA = 111. Buckthorn 10-20' present																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4130 - Aspen	Poletimber Well	46.9	38	Unspecified	N/A	some buckthorn observed
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		90	Pole/Sapling	6	38	White Spruce	
Bigtooth Aspen		5	Pole	5		Ironwood	
White Pine		5	Log	14		Sugar Maple	
						<b>Density</b>	<b>Avg. Height</b>
						Low	< 5 feet
						Medium	Variable
						Low	Variable
							<b>Size</b>
							Sapling
							Sapling
							Sapling
39	4130 - Aspen	Sapling Well	24.5	16	Unspecified	N/A	Git R Done TS cut 2008
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		95	Sapling	2	16	Sugar Maple	
White Pine		5	Log	16		White Spruce	
						<b>Density</b>	<b>Avg. Height</b>
						Medium	Variable
						Low	< 5 feet
							<b>Size</b>
							Sapling
							Sapling
40	6120 - Lowland Cedar	Poletimber Well	3.1	107	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		95	Pole	9	107		
Paper Birch		5	Pole/Sapling	7			
41	6120 - Lowland Cedar	Poletimber Well	54.6	107	Unspecified	N/A	buckthorn observed
<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	Log/Pole	10		Tag Alder	
Northern White Cedar		50	Log/Pole	10	107	Balsam Fir	
Black Spruce		15	Pole	8			
Tamarack		20	Pole	9			
White Spruce		5	Pole	9			
						<b>Density</b>	<b>Avg. Height</b>
						Medium	< 5 feet
						Low	Variable
							<b>Size</b>
							Tall Shrub
							Sapling
42	622 - Lowland Shrub	Nonstocked	109.6		Unspecified	No	
43	6120 - Lowland Cedar	Poletimber Medium	367.5	107	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Spruce		5	Pole	10		Tag Alder	
Tamarack		10	Pole	8			
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Balsam Poplar		5	Log/Pole	12			
Black Spruce		15	Pole	8			
						<b>Density</b>	<b>Avg. Height</b>
						Full	< 5 feet
							<b>Size</b>
							Tall Shrub
44	4134 - Aspen, Spruce/Fir	Poletimber Well	4.5	40	Unspecified	N/A	Bill's Post TS cut 1984
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		20	Pole/Sapling	6		Balsam Fir	
Quaking Aspen		60	Pole/Sapling	6	40		
White Spruce		20	Pole/Sapling	6			
						<b>Density</b>	<b>Avg. Height</b>
						High	Variable
							<b>Size</b>
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>45</b>	4134 - Aspen, Spruce/Fir	Sapling Poor	31.8	16	Unspecified	N/A	Git R Done TS cut 2008; Still poor regeneration. A few pockets of aspen, scattered white spruce and balsam. Heavy grass, raspberry. White spruce is starting to fill in more on south lobe.																																														
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<b>46</b>	4319 - Mixed Upland Forest	Poletimber Medium	98.2	35	81-110	N/A	Spruce Lake TS cut 1989. Very rocky site with shallow soil and heavy grass, some upland hemlock, black spruce and cedar. Gradually filling in																																														
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<b>47</b>	42350 - Upland Hemlock	Poletimber Medium	32.2	100	81-110	N/A	aspen and birch cut out of north 2/3 of stand.																																														
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<b>48</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	30.0	91	81-110	N/A	Stand thinned in 2017 with Hardwood Hideout TS.																																														
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<b>49</b>	6120 - Lowland Cedar	Poletimber Medium	57.5	101	Unspecified	N/A																																															
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<b>50</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	11.9	91	81-110	N/A	Trace hemlock. Hardwood Hideout cut 2017																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**51**      6120 - Lowland Cedar      Poletimber Well      111.9      101      Unspecified      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	10	Pole	8	
Northern White Cedar	75	Pole/Log	9	101
Balsam Poplar	5	Log/Pole	14	
Black Spruce	10	Pole	7	

**52**      4134 - Aspen, Spruce/Fir      Sapling Well      13.2      15      Unspecified      N/A      Git R Done TS cut 2009