



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12064

Entry Year 2026

Acreage: 2,362

County Dickinson

Management Area: Ralph Moraine

Stand Examiner: Andrew Church

Legal Description:

T43N R27W Sec. 31-34 T42N R27W Sec. 3-6

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing the Best Management Practices guidelines.

Soil and topography:

The compartment is primarily fine sandy loam uplands with Cathro mucks located in the lowlands near the Ford River. The terrain is rolling hills.

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

Most of this compartment is contiguous State of Michigan ownership with the exception of one private landowner within the boundary. Hunting, trapping, dispersed camping and fishing are the main recreational use patterns.

Unique Natural Features:

Ford River and Coffee Creek.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Ford River and Coffee creek are designated cold water streams. Also, the entire compartment lies within the Deer Winter Complex.

Watershed and Fisheries Considerations:

This compartment contains the Main Branch Ford River. The Main Branch Ford River is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July water temperature of 68.5 °F (cool stream). A 300' buffer is recommended for the Main Branch Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, buffer is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment comprises a good portion of the historic Ford River Deeryard. Conifer in the northern hardwood stands and aspen stands should be maintained and enhanced to provide diversity and cover within the stand for use by game and nongame species. Softwoods and lowland hardwoods along transition zones between upland and lowlands provide an important source of food and shelter, as well as, travel corridors for deer, bear, fisher, wolves, small mammals and game and nongame bird species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel operations exist within five miles of the compartment. There is some good potential for sand & gravel in the compartment on the upland areas, but bedrock is at or near the surface in places. The compartment might be too far from populated areas (markets) for any aggregate resources present to have much economic potential beyond use by the county road commission or DNR for local road maintenance. Aeromagnetic survey data for this area show a linear magnetic anomaly crossing the southwest end of the compartment, presumably related to iron formation at depth. No known boreholes have been drilled to test this geophysical feature, and no State-owned mineral rights in the area are currently leased or nominated for leasing. 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:

Access is good. Lantz Road and Camp 9 Road are both seasonal county classification. They are located on the West

and East side of the compartment respectively. Several state forest poor dirt roads are found throughout.

Survey Needs:

Survey needs will be requested.

Recreational Facilities and Opportunities:

None.

Fire Protection:

Fire response will be from Crystal Falls or Norway DNR stations.

Additional Compartment Information:

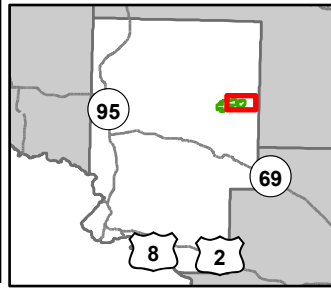
The following reports from the Inventory are attached:

- 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**

**Special Conservation Areas
& Site Conditions Map**

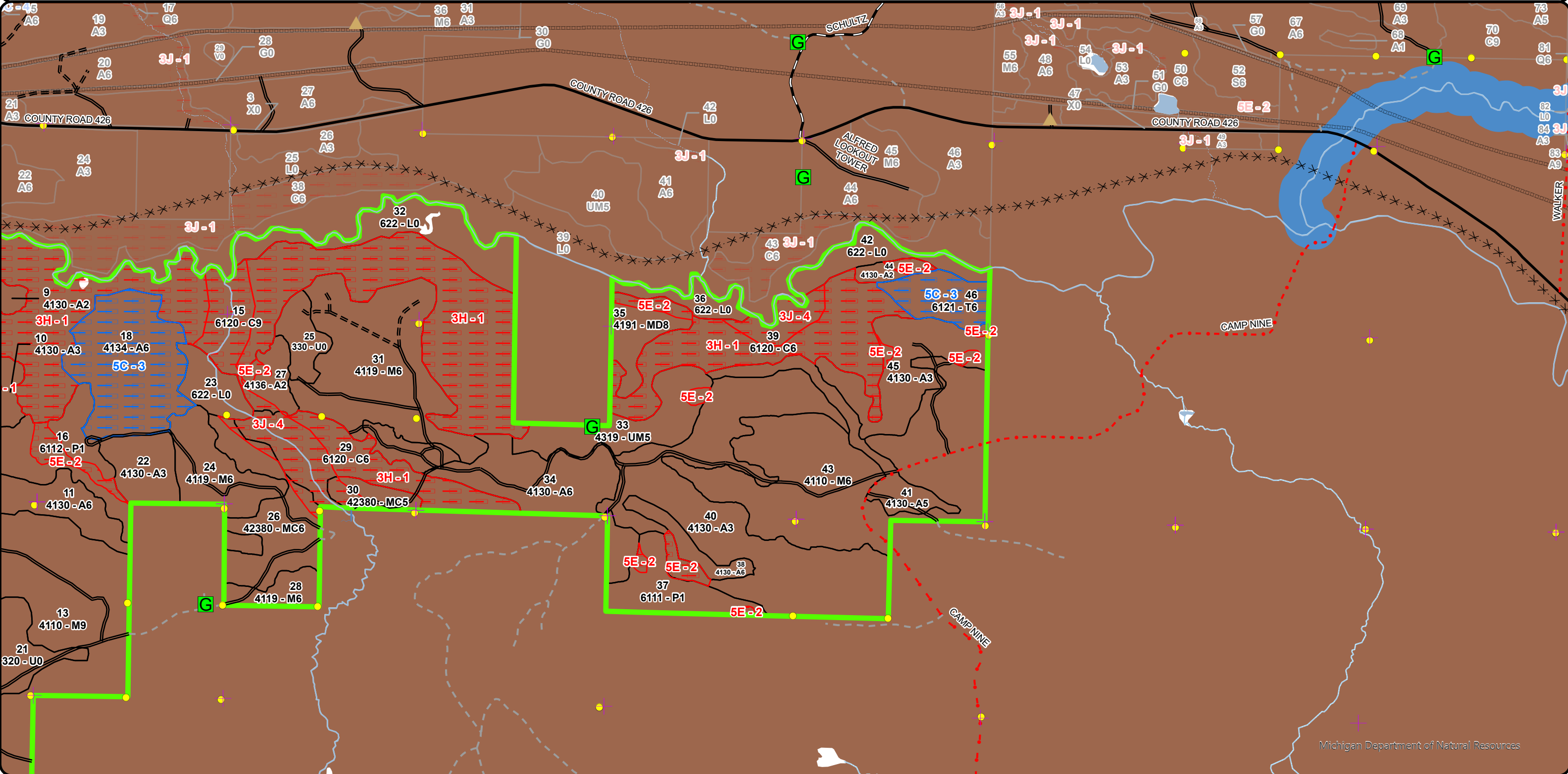
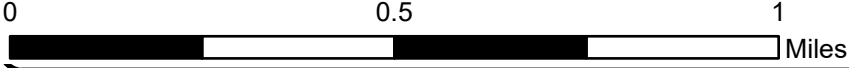


Compartment: 12064
 T42N, R27W, Sec: 3-6
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
 YOE: 2026
 Acres: 2362.5 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 07/15/2024
 Map Phase: Web - Post

- 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

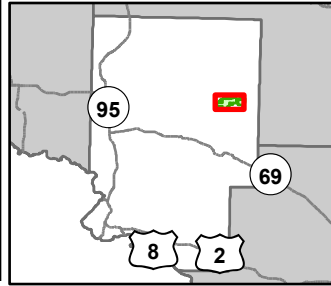
- County - Gravel Road
- Private - Dirt / Gravel Road
- Abandoned Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties

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



Cover Type & Treatments Map

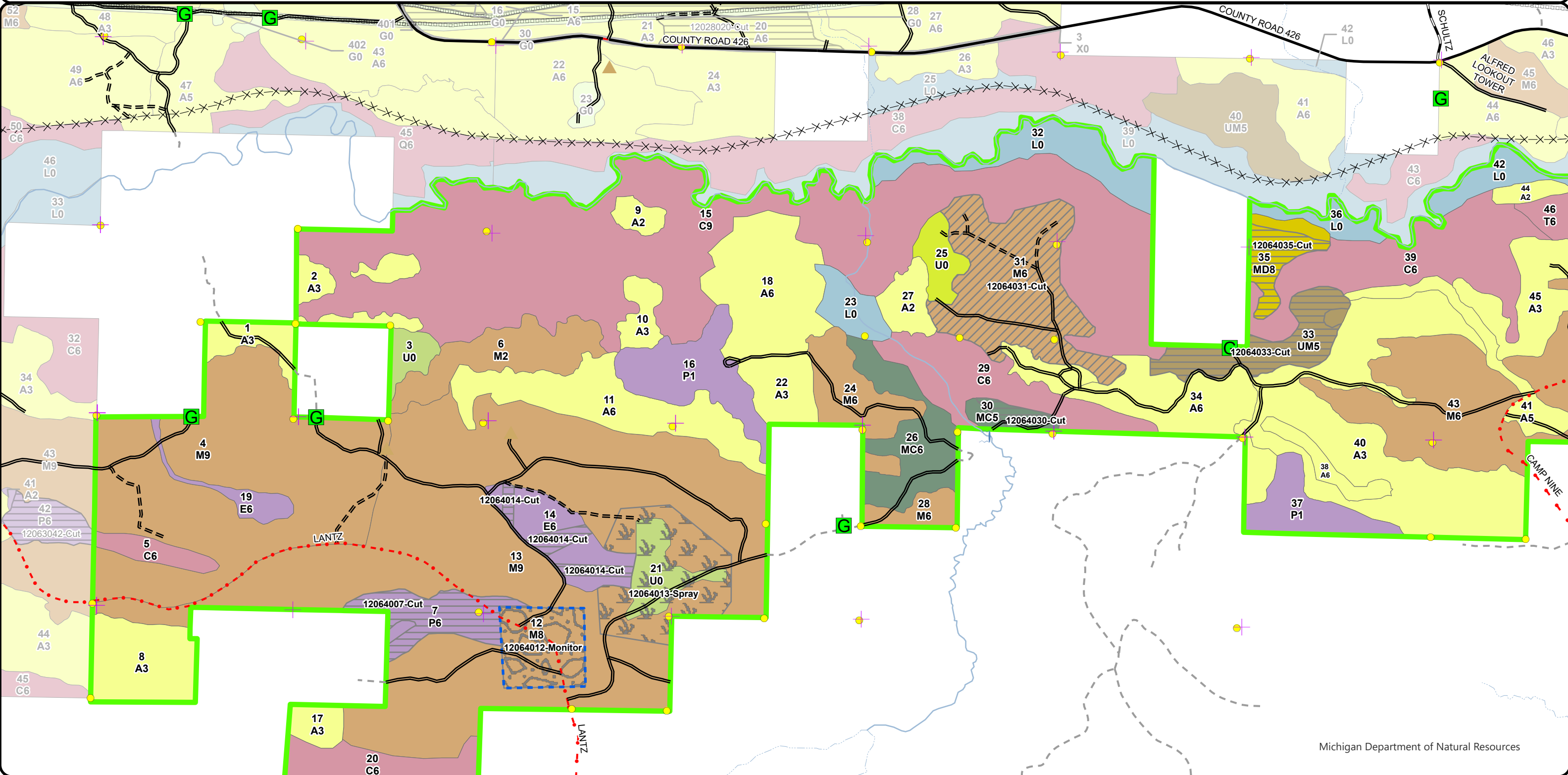
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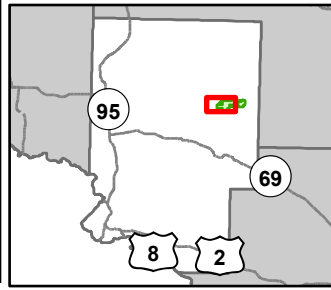
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- ▭ Counties
- ▭ Treatments with Site Conditions
- ▭ Pesticide
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Regeneration Survey
- ▭ 411 - Northern Hardwood
- ▭ 413 - Aspen Types
- ▭ 419 - Mixed Upland Deciduous
- ▭ 423 - Other Upland Conifers
- ▭ 430 - Upland Mixed Forest
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 622 - Lowland Shrub



**Special Conservation Areas
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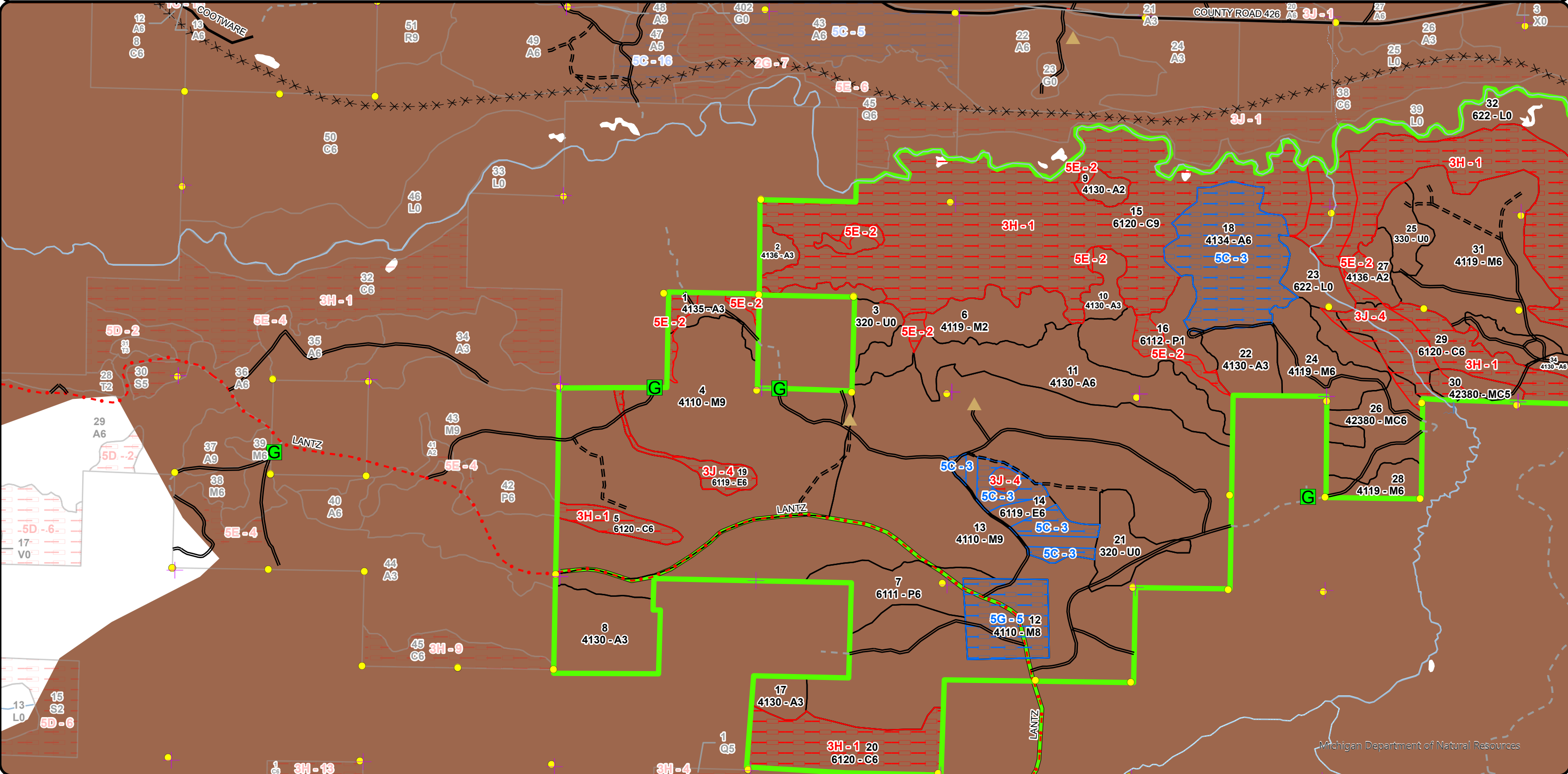
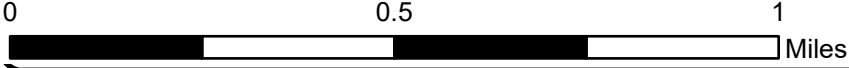


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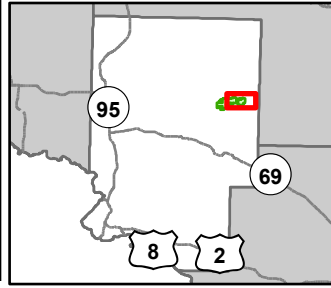
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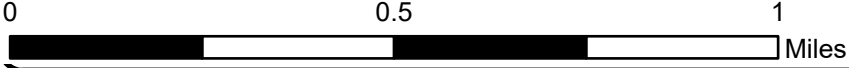
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Stand Boundary Map

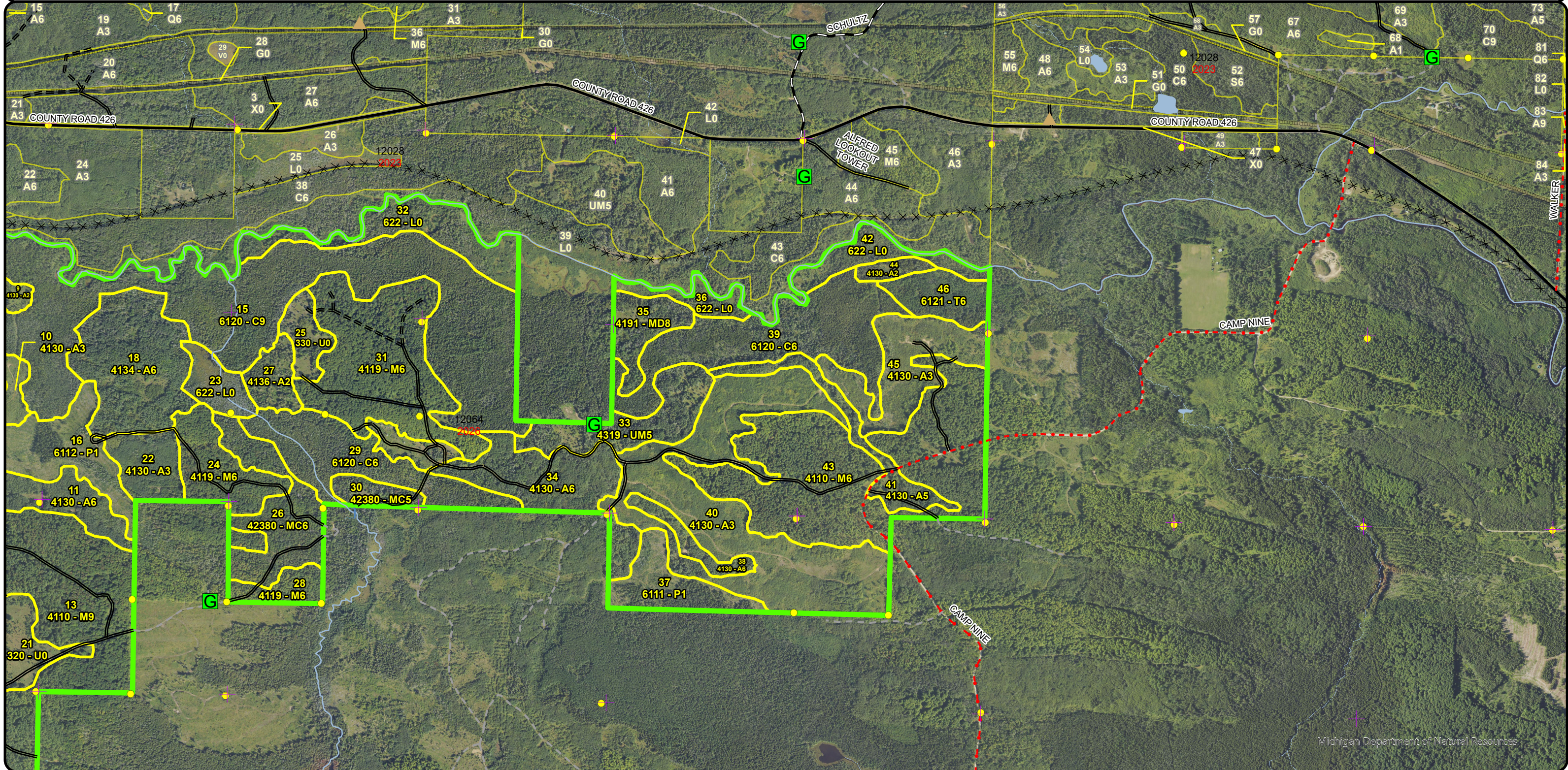


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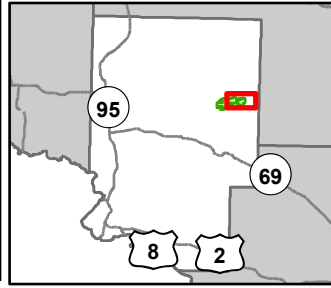


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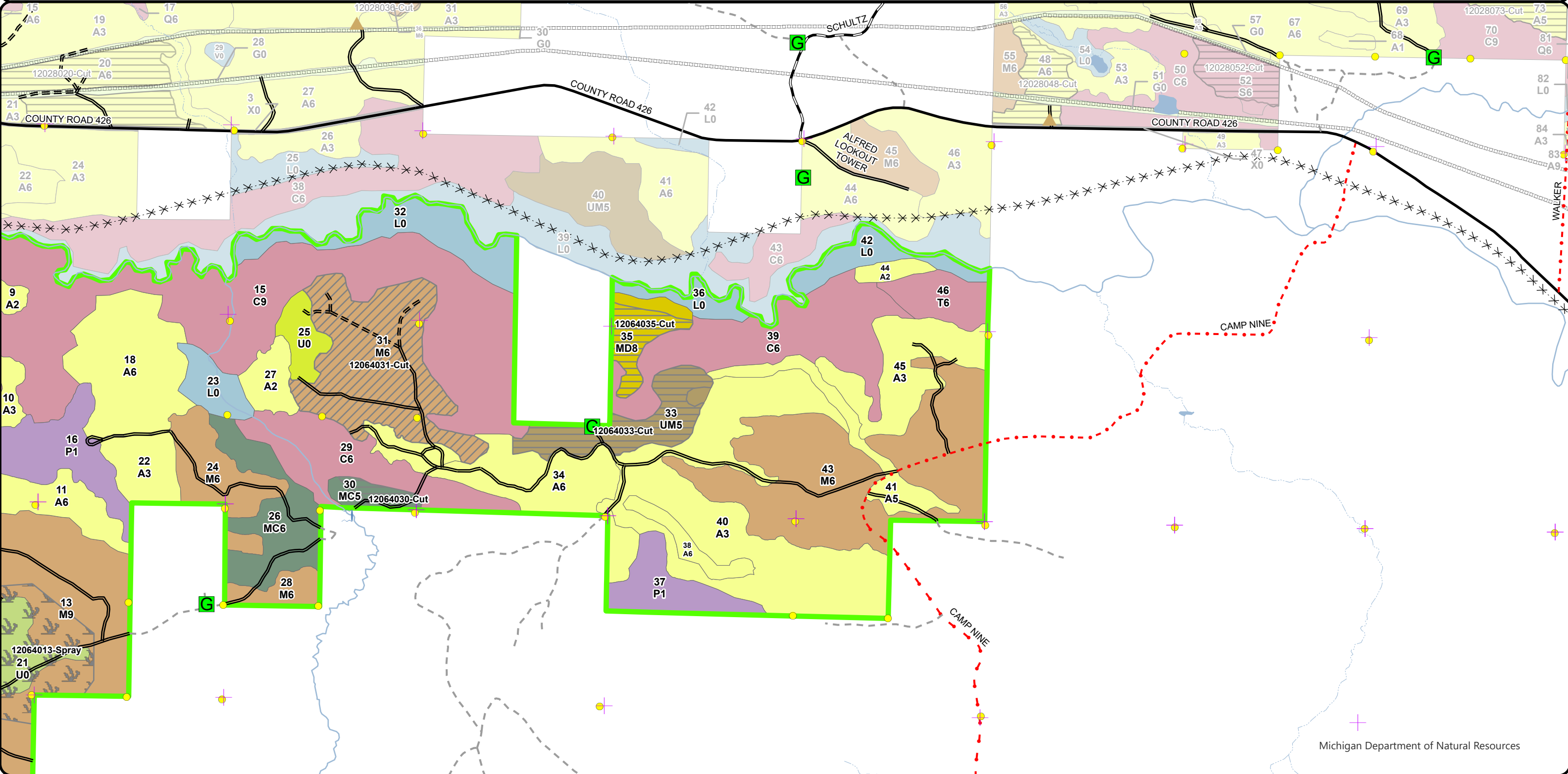
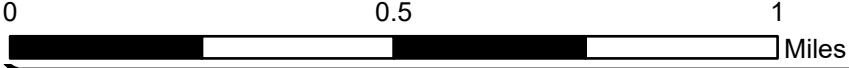


Cover Type & Treatments Map

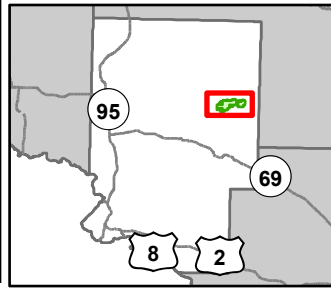


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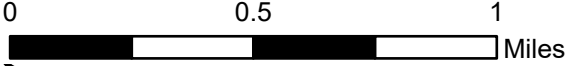
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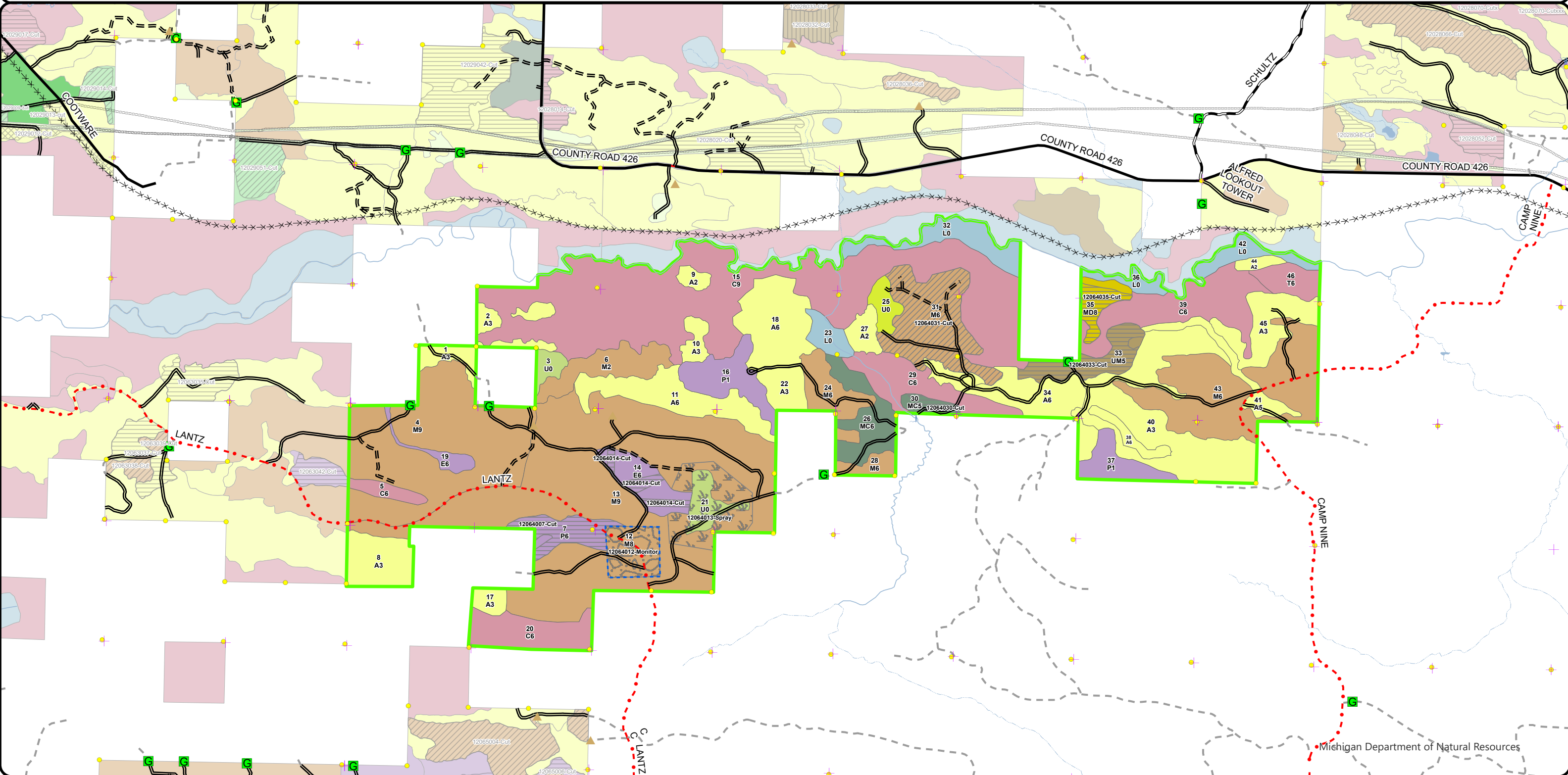


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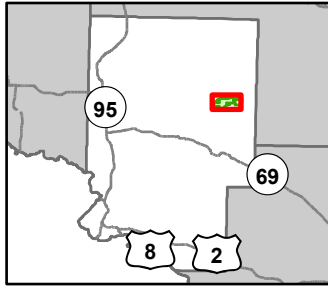
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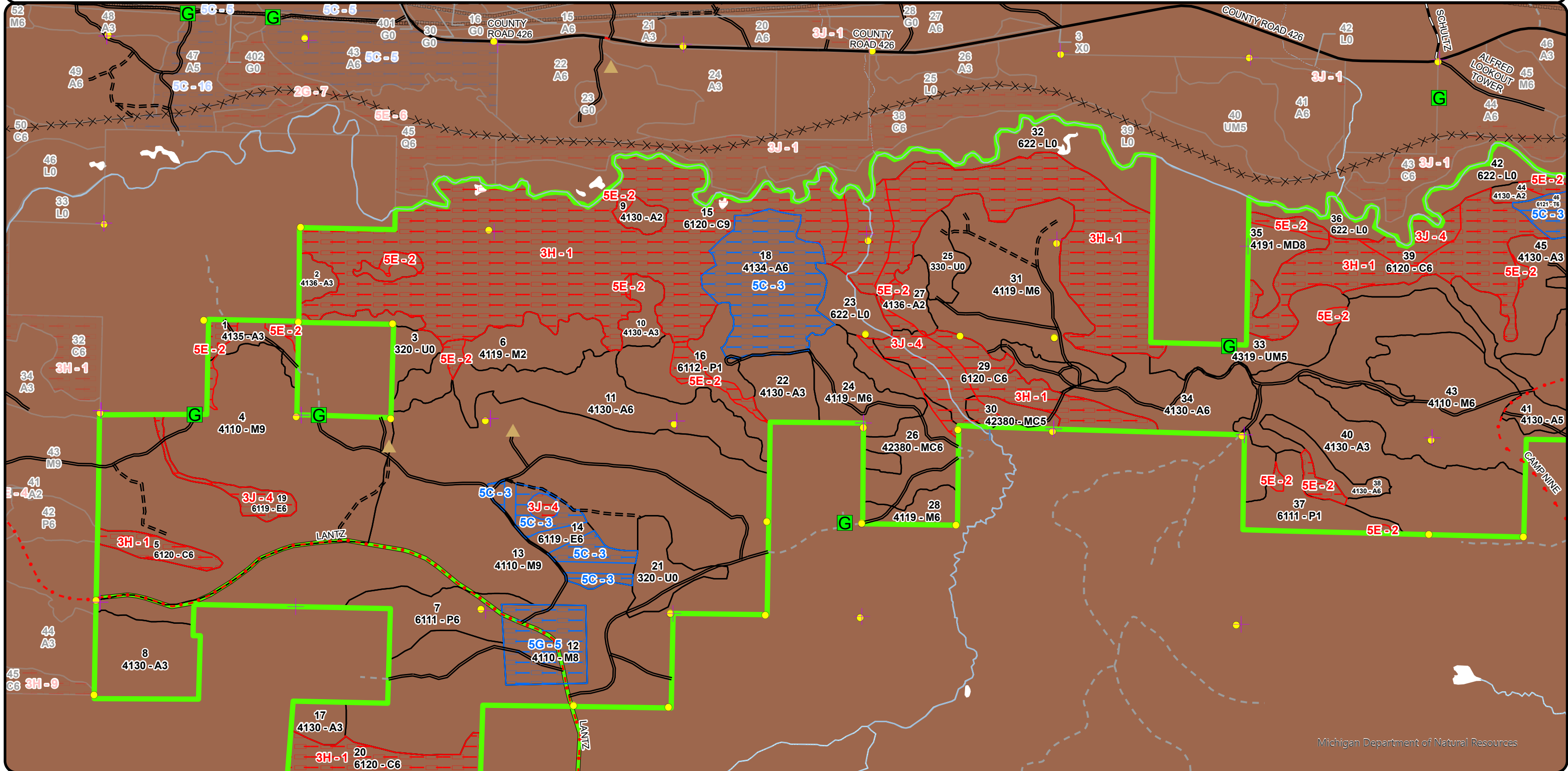


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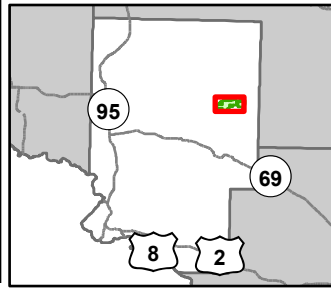
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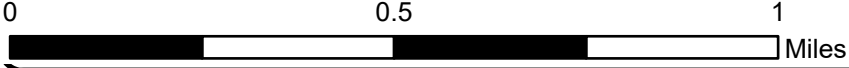
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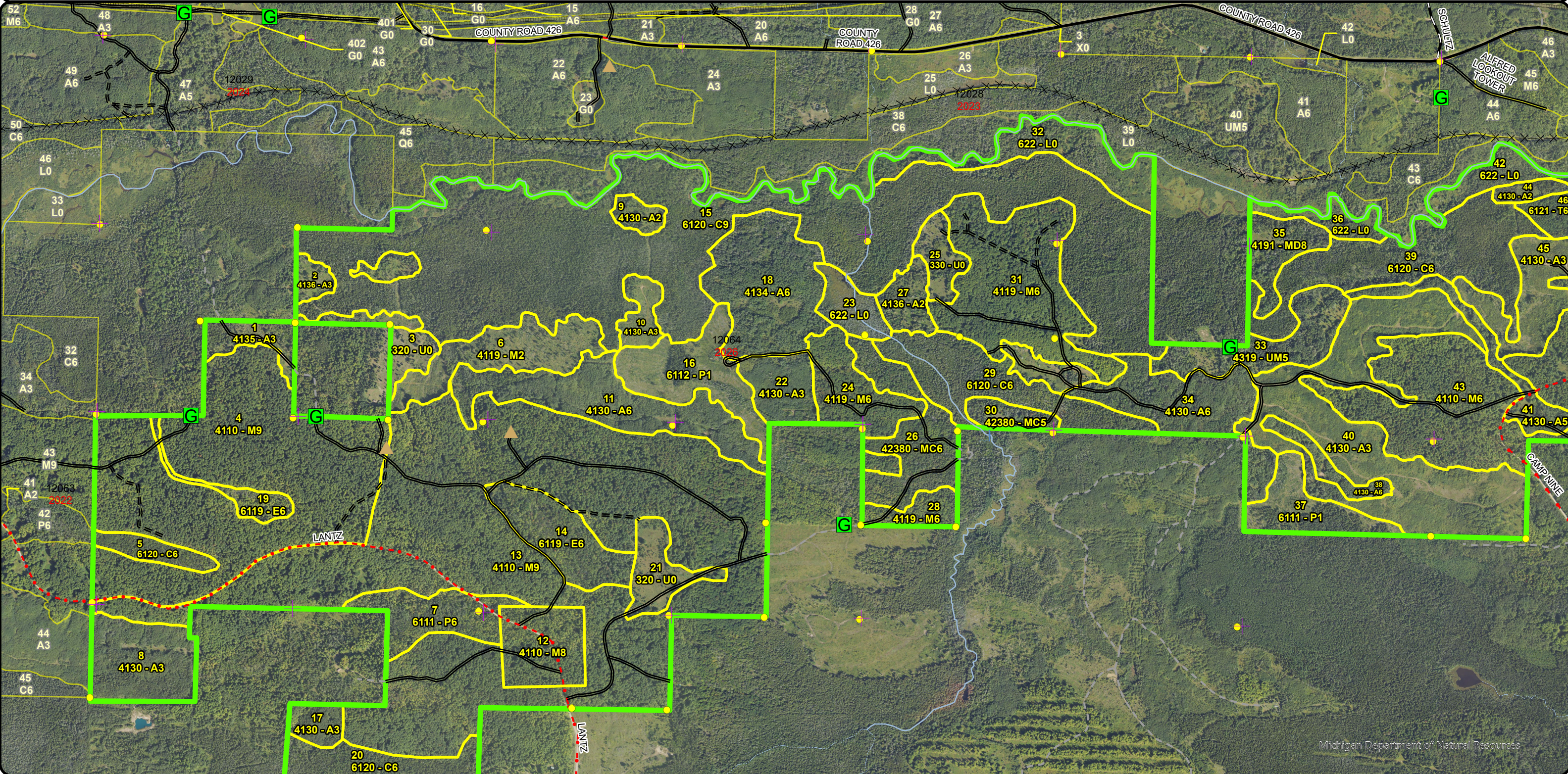


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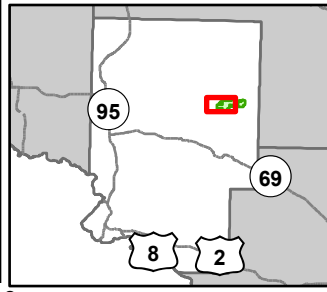


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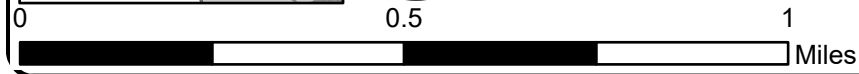
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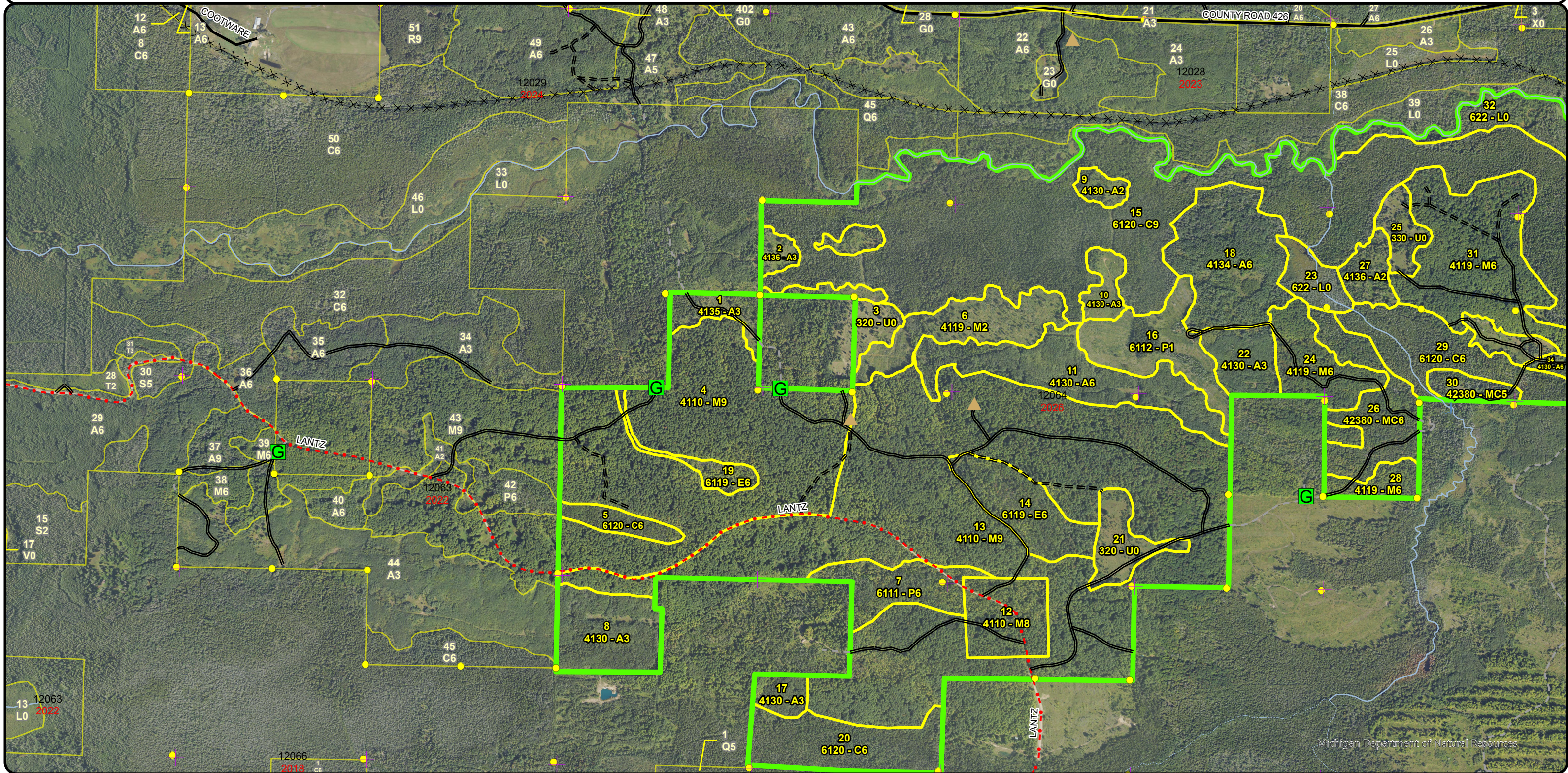
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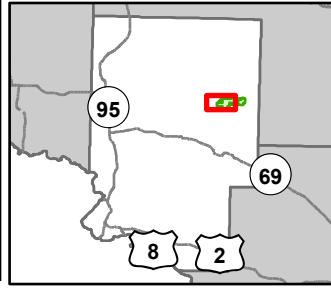
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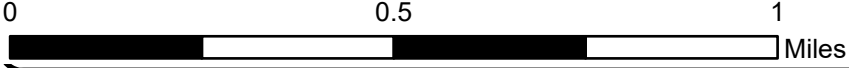
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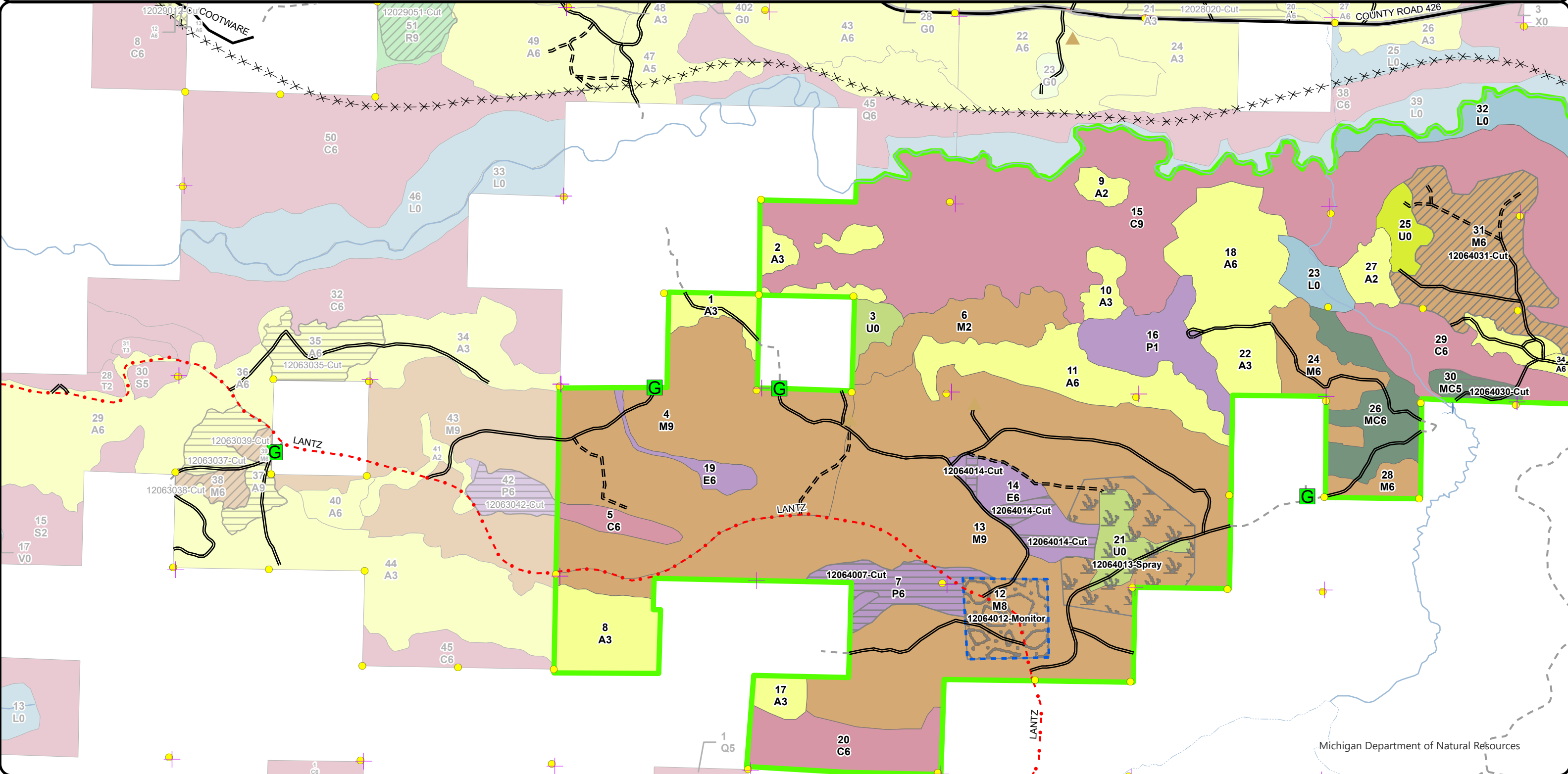
Cover Type & Treatments Map



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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	242	20	46	136	0	61	0	0	0	0	0	0	0	0	0	0	0	504
Cedar	0	0	0	0	0	0	0	0	0	44	122	373	0	0	0	0	0	0	539
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	64	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	42
Lowland Shrub	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	38	0	0	0	0	0	0	0	133	774	0	0	0	0	0	0	0	945
Tamarack	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
Upland Conifers	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	39	49
Upland Mixed Forest	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Upland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Total	120	344	20	46	136	0	151	0	19	177	938	373	0	0	0	0	0	39	2362



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 64
Total Compartment Acres: 2,362

Commercial Harvest - 173
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
Lowland Aspen/Balsam Poplar	27	0	0	0	0	0	0	0	0	27
Lowland Deciduous	10	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	0	0	0	0	83	0	0	0	83
Upland Conifers	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	32	0	0	0	0	0	0	0	0	32
Total	89	0	0	0	0	83	0	0	0	173

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	173	0	0	0	0	57	29	0	0	259
Next Step	0	0	0	0	0	0	89	0	57	147
Total	173	0	0	0	0	57	119	0	57	406



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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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Proposed Treatments:

7	12064007-Cut	26.9	6111 - Lowland Balsam Poplar	Poletimber Well	53	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave conifers. Winter harvest only for DWC concerns. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Mixed Hardwoods, Mixed Conifers <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>											
12	12064012-Monitor	29.3	4110 - Sugar Maple Association	Sawtimber Medium	98	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MWR project <u>Specs:</u> MSU will monitor site per study specs <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> hardwood species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Research Study <u>Proposed Start Date:</u> 10/1 /2025</p>											
13	12064013-Spray	57.4	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Herbicide targeting invasive species. WLD opening maintenance- buldoze/mulch opening, Rx burn <u>Specs:</u> <u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting <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 /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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14	12064014-Cut	9.9	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Final Harvest using 4" spec. Leave conifers. Winter harvest only for DWC concerns.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed hardwoods, Mixed conifers.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

30	12064030-Cut	6.3	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	58	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest using 4" spec. Leave conifers. Buffer Coffee creek 300 feet. Protect residual stand during harvest.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwoods, Mixed conifers

Regen:

Other

Conifers retained for DWC concerns.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

31	12064031-Cut	83.3	4119 - Mixed Northern Hardwoods	Poletimber Well	98	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin targeting 80 residual BA. Leave conifers and Yellow Birch. Favor Basswood, White Birch, and Cherry.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Conifers retained for DWC concerns.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

33	12064033-Cut	31.5	4319 - Mixed Upland Forest	Poletimber Medium	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest using 4" spec. Leave conifers. Winter Harvest only for DWC concerns.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Hardwoods, Mixed Conifers

Regen:

Other

Conifers retained for DWC concerns.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
35 12064035-Cut	14.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	78	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave conifers. Winter Harvest only for DWC concerns. Buffer river 300 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Mixed Hardwood, Mixed Conifers</p> <p><u>Other Comment:</u> Conifers retained for DWC concerns.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 259.3

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 64
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	5G	3H	3J	5E
504	420	61	23	Aspen	61			2	21
495	0	0	495	Cedar			445	50	
13	13	0	0	Low-Density Trees					
85	83	0	2	Lowland Aspen/Balsam Poplar					2
42	10	20	12	Lowland Deciduous	20			12	
79	79	0	0	Lowland Shrub					
19	15	0	4	Mixed Upland Deciduous					4
945	911	29	4	Northern Hardwood		29			4
19	0	19	0	Tamarack	19				
49	42	0	7	Upland Conifers				7	
33	32	0	1	Upland Mixed Forest					1
28	28	0	0	Upland Shrub					
2,311	1,633	129	549	Total Forested Acres	100	29	445	71	33
	71%	6%	24%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	489	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	40	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Some retention areas are also within stream buffers.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Andrew Church : Examiner

Compartment: 64
 Year of Entry: 2026

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffers along streams, rivers, and ponds.							
5	Available	5G: Research Study	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Northern Hardwoods Regeneration Research Study site							

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.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	4135 - Aspen, Cedar	Sapling Well	13.7	5	Immature	N/A	Harvested 2019.																																												
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2	4136 - Aspen, Mixed Conifer	Sapling Well	17.5	5	Immature	N/A	Harvested 2020.																																												
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3	320 - Upland Shrub	Nonstocked	9.2		Unspecified	No																																													
4	4110 - Sugar Maple Association	Sawtimber Well	203.7	99	51-80	N/A	BAs vary greatly throughout stand. Good quality hardwood stand. Salvaged windstorm damage trees in 2017. Entire stand thinned 2019.																																												
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12	4110 - Sugar Maple Association	Sawtimber Medium	29.3	98	51-80	N/A	Piececutter MWR TS 009-17. Several small gap openings created within stand. herbicide and scarified fall 2020.																																																			
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13	4110 - Sugar Maple Association	Sawtimber Well	414.9	98	81-110	N/A	High quality Northern Hardwood stand. Thinned 2007. Salvaged wind damaged trees in 2017.																																																																					
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14	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	32.5	95	81-110	N/A	Some parts of stand are upland, but most of stand is lowland. Aspen around the edges of the lowlands. Pond in NW part of stand.																																																																					
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16	6112 - Lowland Aspen	Sapling Poor	38.4	5	Immature	N/A	Mostly lowland but stand does transition to uplands along edges of stand boundary. Harvested 2019.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4134 - Aspen, Spruce/Fir	Poletimber Well	60.5	51	Unspecified	N/A	Northern portions of stand growing better than Southern portions. Many different ages and densities of trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Pole	6		Sugar Maple	Low	Variable	Sapling
Sugar Maple	5	Pole	6		Balsam Poplar	Low	Variable	Sapling
White Spruce	10	Pole	6		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	20	Pole/Sapling	7		Hazelnut (Beaked)	High	5 - 10 feet	Tall Shrub
Black Cherry	10	Pole	6		Ironwood	Low	Variable	Sapling
Quaking Aspen	40	Pole/Sapling	7	51				
Balsam Fir	10	Pole/Sapling	6					

19	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.7	95	81-110	N/A	Some parts of stand are upland, but most of stand is lowland. Stream within stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	6		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	20	Pole	7		Black Ash	Low	Variable	Sapling
White Pine	2	XLog	18		Northern White Cedar	Low	Variable	Pole
Black Ash	10	Pole/Sapling	5		Leatherwood	Low	< 5 feet	Tall Shrub
Sugar Maple	20	Pole/Sapling	7		Ironwood	Low	Variable	Sapling
Yellow Birch	3	Pole	6					
Red Maple	30	Pole/Log/Sap	9	95				
Basswood	10	Pole/Log	10					

20	6120 - Lowland Cedar	Poletimber Well	43.7	88	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Black Spruce	10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	70	Pole	7	88				

21	320 - Upland Shrub	Nonstocked	18.9		Unspecified	No	
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22	4130 - Aspen	Sapling Well	19.8	17	Unspecified	N/A	Scattered supercanopy cedars throughout
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	2	17	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					Balsam Fir	Low	Variable	Sapling
					Ironwood	Medium	Variable	Sapling

23	622 - Lowland Shrub	Nonstocked	14.1		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4119 - Mixed Northern Hardwoods Poletimber Well 31.9 99 81-110 N/A Harvested 2020 Camp 9 Complex.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Hemlock	5	Log	12		Ironwood	Low	Variable	Sapling
Red Maple	10	Pole	8		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Ironwood	5	Sapling/Pole	6					
Northern White Cedar	10	Log	12					
Yellow Birch	10	Pole/Log	10					
Sugar Maple	55	Pole	8	99				

25 330 - Low-Density Trees Nonstocked 12.6 Unspecified No An opening reclaiming to mostly conifer trees.

26 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 39.4 99 81-110 N/A Cedar/Hemlock/Mixed Hardwood stand. Mostly upland with some drainage areas throughout. Stand is extremely diverse.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Pole	6	99	Balsam Fir	Medium	Variable	Sapling
Hemlock	15	Log/Pole	10		White Spruce	Medium	Variable	Sapling
Red Maple	20	Pole	6					
Sugar Maple	5	Pole	8					
White Spruce	10	Pole	8					
Balsam Poplar	5	Pole	6					
Quaking Aspen	5	Pole	7					
Yellow Birch	5	Pole/Log	10					
Balsam Fir	10	Pole	6					

27 4136 - Aspen, Mixed Conifer Sapling Medium 22.9 5 Immature N/A Harvested 2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	1	5	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Northern White Cedar	10	Pole/Log	8					
White Pine	5	XLog	18					
Hemlock	5	Log	14					

28 4119 - Mixed Northern Hardwoods Poletimber Well 11.4 99 81-110 N/A Thinned 2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Log	12		Balsam Fir	Low	Variable	Sapling
Hemlock	5	Log	12		Ironwood	Low	Variable	Sapling
Sugar Maple	55	Pole/Log	8	99	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Ironwood	5	Pole/Sapling	6					
Red Maple	10	Pole	8					
Quaking Aspen	5	Pole	8					
Yellow Birch	10	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	6120 - Lowland Cedar	Poletimber Well	48.0	97	Unspecified	N/A	Coffee Creek runs through middle of stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole	6		Balsam Fir	
Northern White Cedar		80	Pole	8	97	Black Ash	
Tamarack		10	Pole	6		Tag Alder	
						Black Spruce	
						Density	
						Avg. Height	
						Size	

30	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	9.5	58	51-80	N/A	Small opening reclaiming to trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		25	Pole/Sapling	6	58	Balsam Fir	
Black Spruce		10	Pole/Sapling	6		Black Cherry	
Northern White Cedar		5	Pole	8		Hazelnut (Beaked)	
Red Maple		20	Pole	7		Tag Alder	
Balsam Fir		15	Pole/Sapling	5		White Spruce	
Paper Birch		10	Pole/Sapling	6		Density	
Hemlock		15	Log	12		Avg. Height	
						Size	

31	4119 - Mixed Northern Hardwoods	Poletimber Well	83.3	98	111-140	N/A	Northern part of stand thinned 2009. Far Southern reaches of stand was not thinned because it was private ownership in 2009. More Hemolock, Red Maple, Cedar in North.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		10	Log/XLog	16		Sugar Maple	
Sugar Maple		55	Log/Pole	10	98	Blackberry/Raspberry	
Red Maple		15	Pole/Log	9		Balsam Fir	
Yellow Birch		5	Pole/Log	8		Ironwood	
Northern White Cedar		5	Log	10		Leatherwood	
Basswood		5	Pole/Log	9		Density	
Paper Birch		5	Pole	6		Avg. Height	
						Size	

32	622 - Lowland Shrub	Nonstocked	35.6		Unspecified	No	
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33	4319 - Mixed Upland Forest	Poletimber Medium	32.9	56	81-110	N/A	Not fully stocked, several openings within stand. Varying densities and ages of Aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	8		Paper Birch	
Balsam Fir		25	Pole/Sapling	7		Balsam Fir	
White Spruce		25	Pole/Sap/Log	8		White Spruce	
Black Cherry		5	Pole/Sapling	7		Density	
Quaking Aspen		40	Pole/Log	8	56	Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	4130 - Aspen	Poletimber Well	47.2	38	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole/Sapling	5	38	Balsam Fir	Low	Variable	Sapling
Balsam Poplar		10	Pole/Sapling	5		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
						White Spruce	Low	Variable	Sapling

35	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	19.0	78	51-80	N/A	Trees in declining health. Stand is reverting to Maple/Fir as Aspen dies out. Large supercanopy White Pines found throughout stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		10	Pole/Sap/Log	7		Balsam Fir	Low	Variable	Sapling
Paper Birch		15	Pole/Log	8		Red Maple	Low	Variable	Sapling
Quaking Aspen		25	Log/Pole	14	78				
Northern White Cedar		5	Pole/Log	9					
Red Maple		20	Pole/Log/Sap	8					
White Pine		10	XLog	18					
Balsam Fir		15	Pole/Sapling	6					

36	622 - Lowland Shrub	Nonstocked	10.8		Unspecified	No	
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37	6111 - Lowland Balsam Poplar	Sapling Poor	25.5	5	Unspecified	N/A	Harvested 2019 Camp 9 Complex.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar		60	Sapling	1	5				
Tamarack		15	Sapling	1					
Black Spruce		15	Sapling	1					

38	4130 - Aspen	Poletimber Well	10.2	38	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		20	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		80	Pole/Sapling	5	38	Tag Alder	Low	5 - 10 feet	Tall Shrub
						White Spruce	Low	Variable	Sapling

39	6120 - Lowland Cedar	Poletimber Well	73.8	96	Unspecified	N/A	Thick Cedar swamp. More Fir/Spruce along edges. A few scattered Tamarack.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole	6		Balsam Fir	Low	Variable	Sapling
Northern White Cedar		80	Pole/Log	8	96	Black Spruce	Low	Variable	Sapling
Tamarack		10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	4130 - Aspen	Sapling Well	123.5	5	Immature	N/A	Harvested 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		10	Sapling	1		Hazelnut (Beaked)	
Quaking Aspen		90	Sapling	1	5	Medium	
						Avg. Height	
						< 5 feet	
						Size	
						Tall Shrub	
41	4130 - Aspen	Poletimber Medium	21.1	33	Unspecified	N/A	Many different ages and densities of Aspen. Older Aspen to southeast.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Pole/Sapling	6	33	Sugar Maple	
Balsam Poplar		30	Pole/Sapling	6		Black Cherry	
						Blackberry/Raspberry	
						Density	
						Low	
						Avg. Height	
						Variable	
						Size	
						Sapling	
42	622 - Lowland Shrub	Nonstocked	18.5		Unspecified	No	
43	4110 - Sugar Maple Association	Poletimber Well	132.7	87	81-110	N/A	Varying ages and densities throughout stand. Thinned 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		10	Log	12		Leatherwood	
Sugar Maple		60	Pole	8	87	Ironwood	
Basswood		30	Log/Pole	10		Sugar Maple	
						Density	
						Low	
						Avg. Height	
						< 5 feet	
						Size	
						Tall Shrub	
44	4130 - Aspen	Sapling Medium	5.8	5	Immature	N/A	Harvested 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling	1	5	Balsam Fir	
Northern White Cedar		10	Log	14	99	White Spruce	
						Red Maple	
						Density	
						Medium	
						Avg. Height	
						Variable	
						Size	
						Sapling	
45	4130 - Aspen	Sapling Well	41.6	5	Immature	N/A	Harvested 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		10	Sapling	1		Hazelnut (Beaked)	
Quaking Aspen		90	Sapling	1	5	Medium	
						Avg. Height	
						< 5 feet	
						Size	
						Tall Shrub	
46	6121 - Tamarack	Poletimber Well	19.3	58	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole	6		Tag Alder	
Northern White Cedar		5	Pole	6		Northern White Cedar	
Black Ash		5	Pole/Sapling	6		Black Spruce	
Tamarack		80	Pole	6	58	Low	
						Avg. Height	
						5 - 10 feet	
						Size	
						Tall Shrub	