



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12082

Entry Year 2026

Acreage: 1,470

County Dickinson

Management Area: Cassidy Creek

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**Stand Examiner:** Rich Goupell

**Legal Description:**

T41N,R29W, Sec. 28, 29

**Identified Planning Goals:**

To integrate management with natural area features keeping the integrity of the forest and the unique diversity of the area. Also, adding the recreation feature with the snowmobile trail.

**Soil and topography:**

The soil in this compartment is Dickinson Ssurgo Soils. The topography is rock outcrops to drainages. There are rolling areas with rock and wet intermingled. It is a challenge to manage this area due to the terrain.

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

This whole compartment is state land except one forty in the NW corner. Access to the SE part of the compartment is through private land. This private land has a hunting camp. Rock Lake is in the SE corner and there are cottages on that lake.

**Unique Natural Features:**

There are several lakes in this compartment. Lost lake with a ski trail is at the NE,( Merriman Trail ) Scott Lake is SE of Lost Lake. Little Lost Lake is North of Rock Lake, Rock Lake is in the SE corner. Lake 29 is hidden amongst the rocks in the middle of section 29, and Lost Lake Creek flows north and south through section 28.

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

This area has an ERA which is a Bedrock Glade, which is about 160 acres of "bald" rock outcrops. These are mostly in section 29. There is now also a DHA in the NE corner. This is fairly inaccessible due to the wet nature between the rocky outcrops

**Watershed and Fisheries Considerations:**

This compartment contains Pine Creek and Lost Lake Creek which both are Type 1 Designated Trout streams. For all designated trout streams less than 50 feet in width, a 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. For all non-designated trout streams and waterbodies should include a 100' buffer.

**Wildlife Habitat Considerations:**

This area provides unique wildlife habitat requirements associated with both the rocky outcrops and the intersecting wetland associated types. Areas of this compartment were underplanted to hemlock and white pine as part of the Rock Lake Deeryard Restoration agreement.

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

No known potential exists for commercial oil & gas production in this part of the state. The State-owned Carney Lake Road Pit is less than one mile west. The pit has not been leased or permitted for commercial production within the last 20 years and has not recently been assessed for resource potential. Potential for sand & gravel in the compartment may be limited; much of the upland areas consist of bedrock outcrops. Potential for occurrences of metallic minerals from within the compartment is relatively unknown but is considered low. No known test drilling or other sampling has occurred in the compartment or immediate vicinity and no State-owned mineral rights in the compartment are currently leased or nominated for leasing. However, aeromagnetic survey data indicate that there may be some areas that are prospective for future testing/study. 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:**

The snowmobile trail is the main access through this compartment. There are some trails and logging roads where management has occurred in the past, but rocks cause major issues with access.

**Survey Needs:**

There are very few survey needs due to the contiguous ownership.

**Recreational Facilities and Opportunities:**

As mentioned, the snowmobile trail goes through this compartment.

**Fire Protection:**

**Additional Compartment Information:**

The following reports from the Inventory are attached:

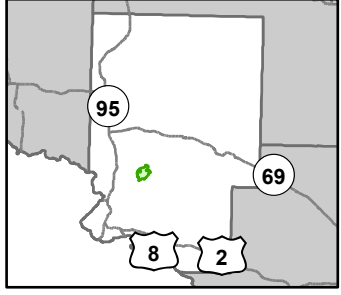
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

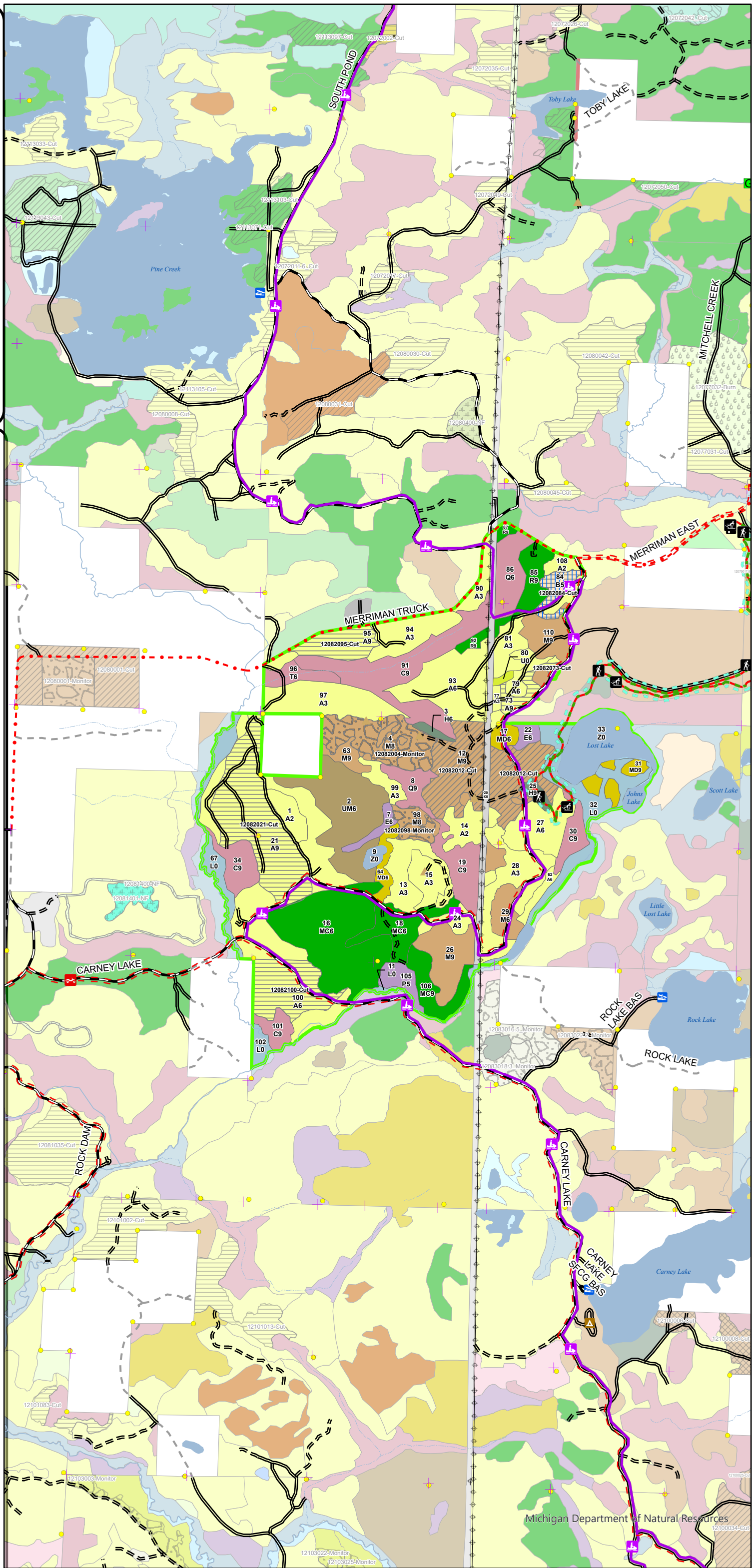
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

# Cover Type & Treatments Map

Compartment: 12082  
 T41N, R29W, Sec: 20, 21, 28,  
 29, 30, 32  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2026  
 Acres: 1470.5 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 07/15/2024  
 Map Phase: Web-Post

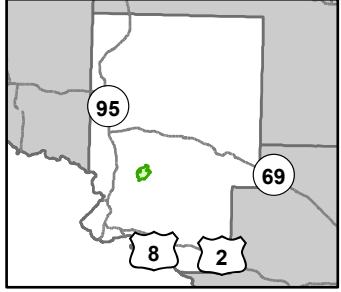


- Hiking Trails
- Ski Trails
- ORV Routes
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Hiking Pathways
- Designated ORV Routes
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- Berms
- Gate
- Boating Access Site
- Bridges
- Culvert
- Parking Lot
- Sign
- Trailhead
- 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
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

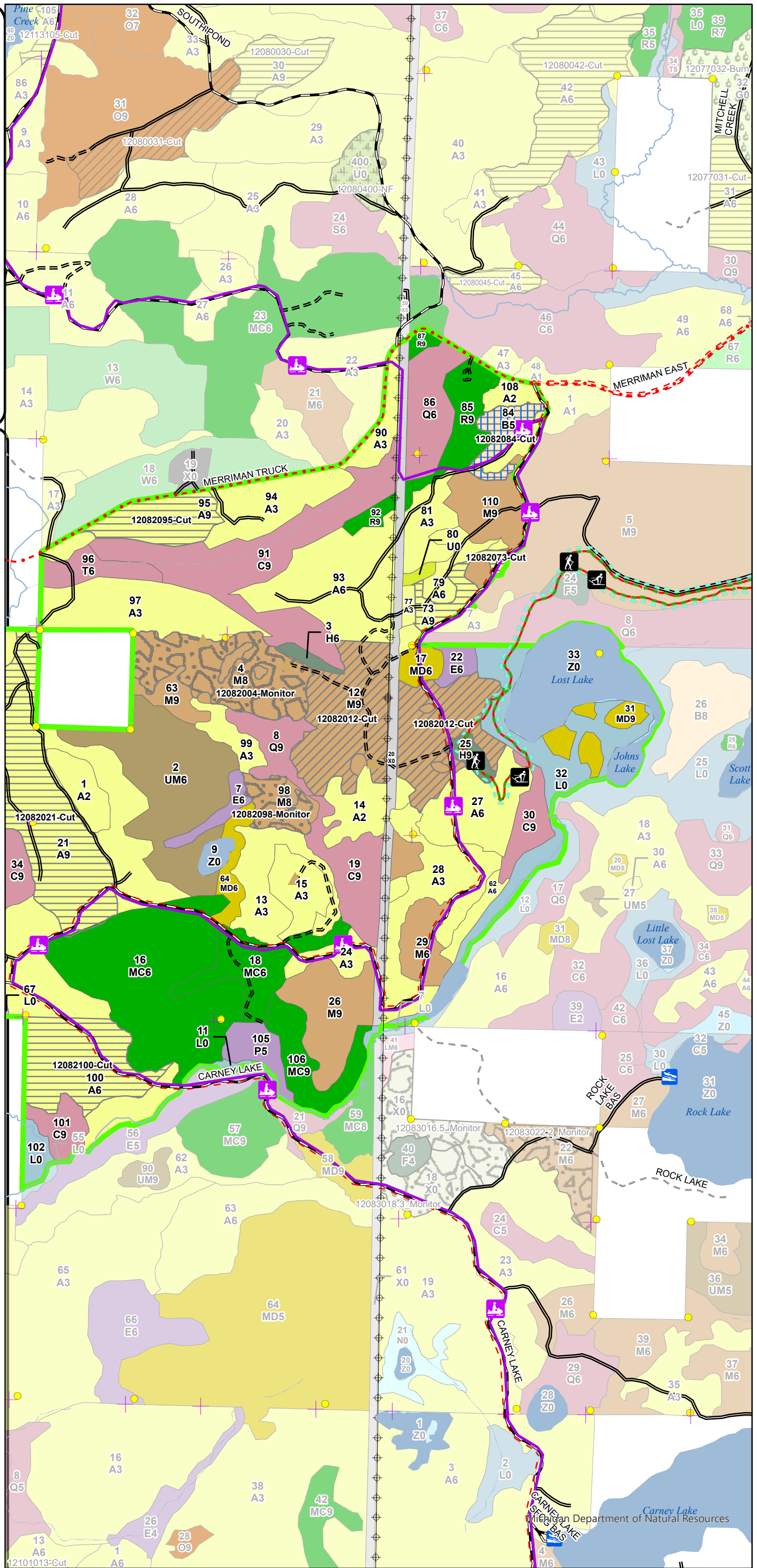


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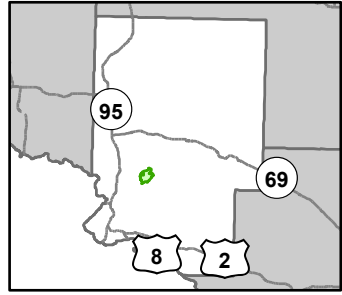


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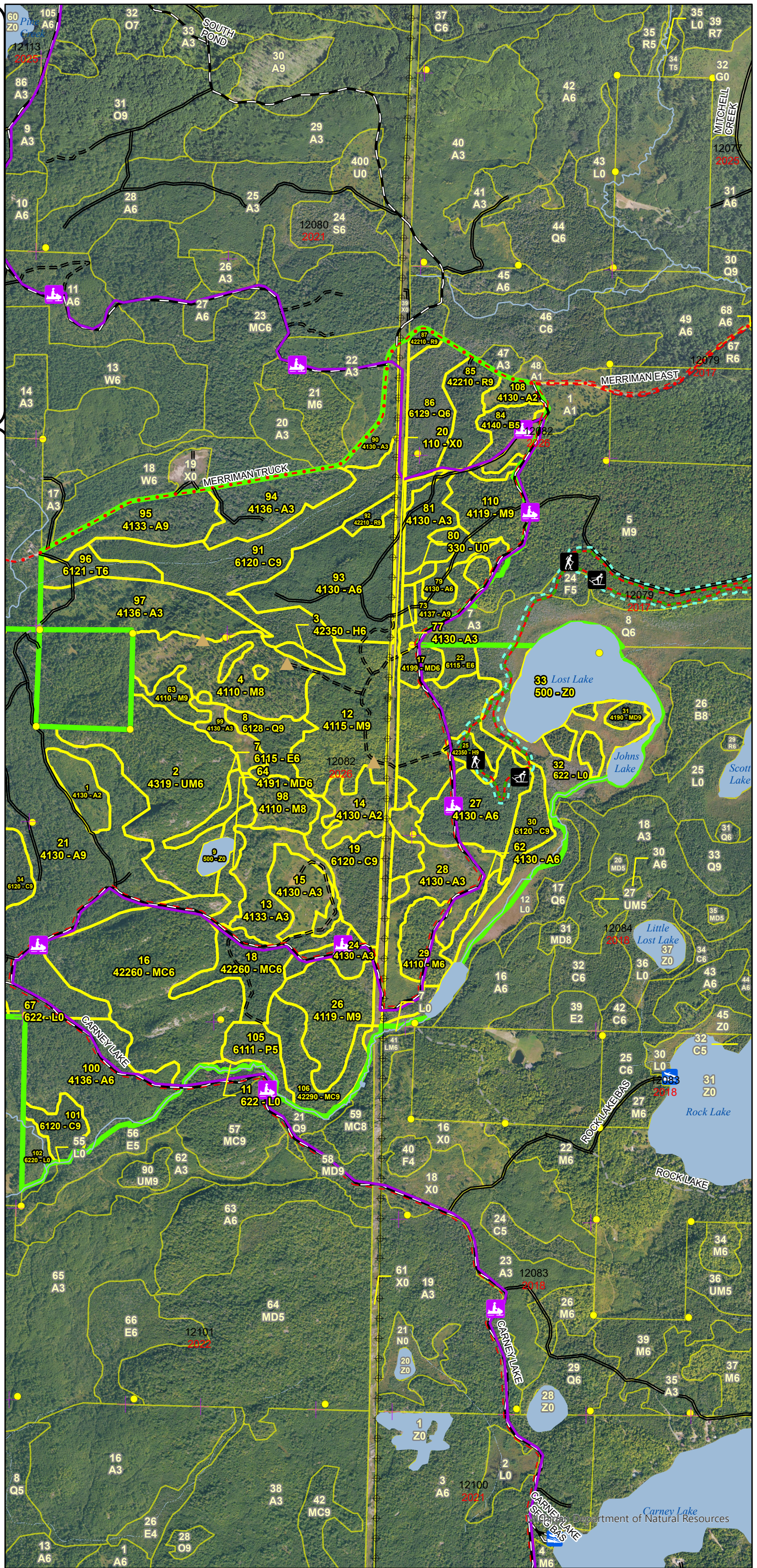


# Stand Boundary Map

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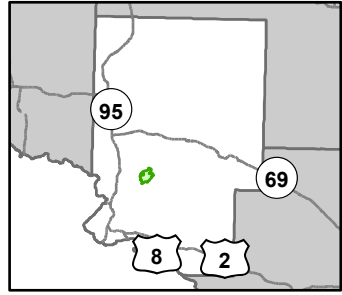


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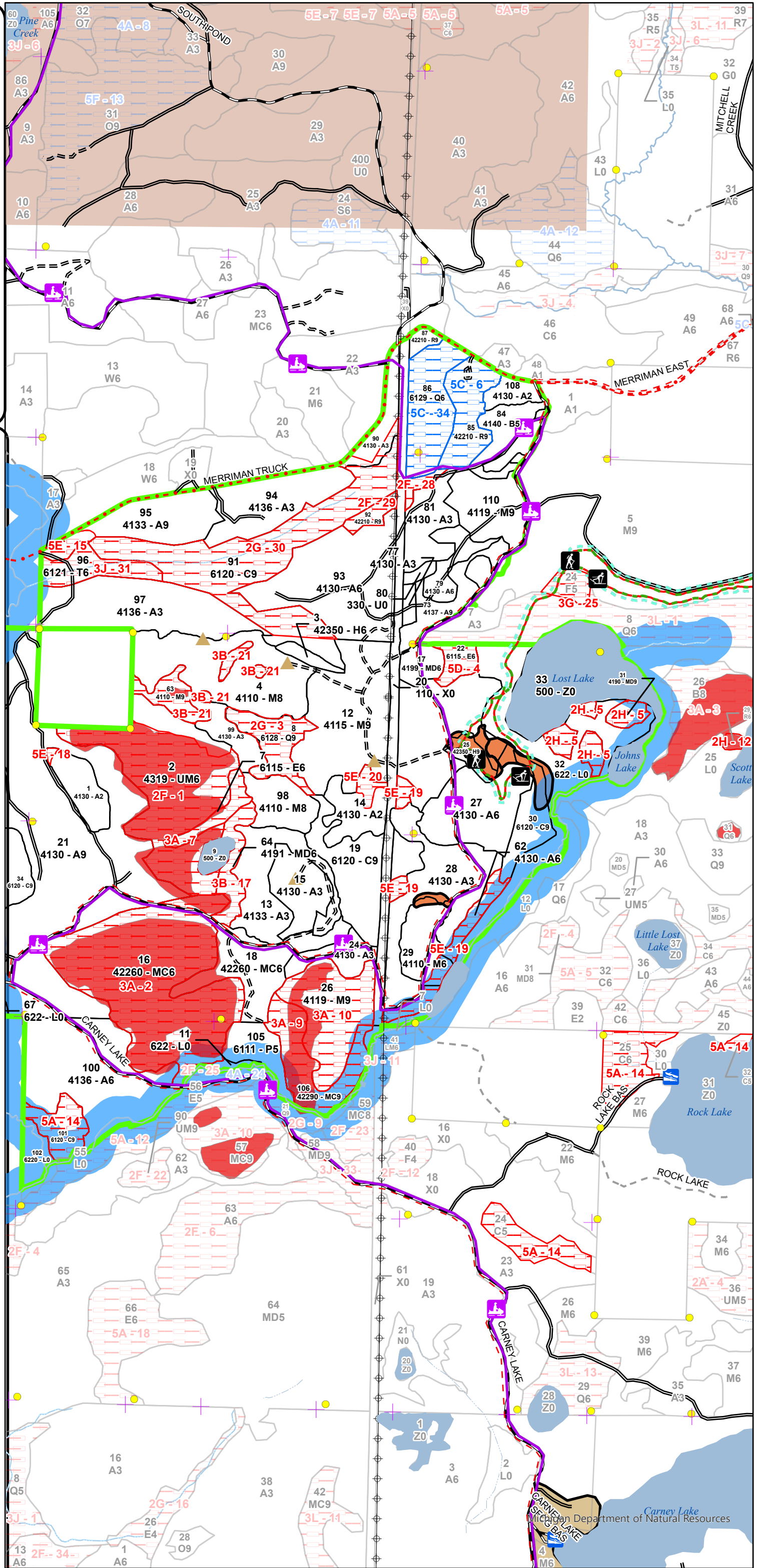


# Special Conservation Areas & Site Conditions Map

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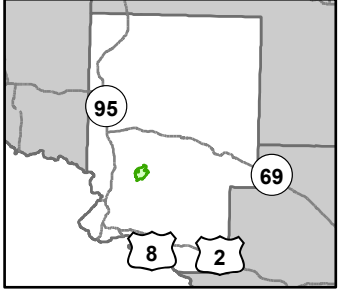
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  - SCA
  - Available w/ Constraints
  - Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site  
 2F: Too steep  
 2G: Too wet (sensitive soils, does not include access issues)  
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  
 3A: Conservation Values incompatible with harvest at this time  
 3G: Other Influence zones - See comments  
 3J: Water quality / BMPs (stream, river, or lake)  
 5A: Not able to obtain desirable regeneration  
 5D: Unproductive Forest Land  
 5E: Long-Term Retention
- Stand Boundaries
  - Ecological Reference Areas
  - Cold Water Streams
  - High Priority Trout Stream Buffer
  - Wildlife Research Areas
  - State Forest Campground
  - Other Habitat Area



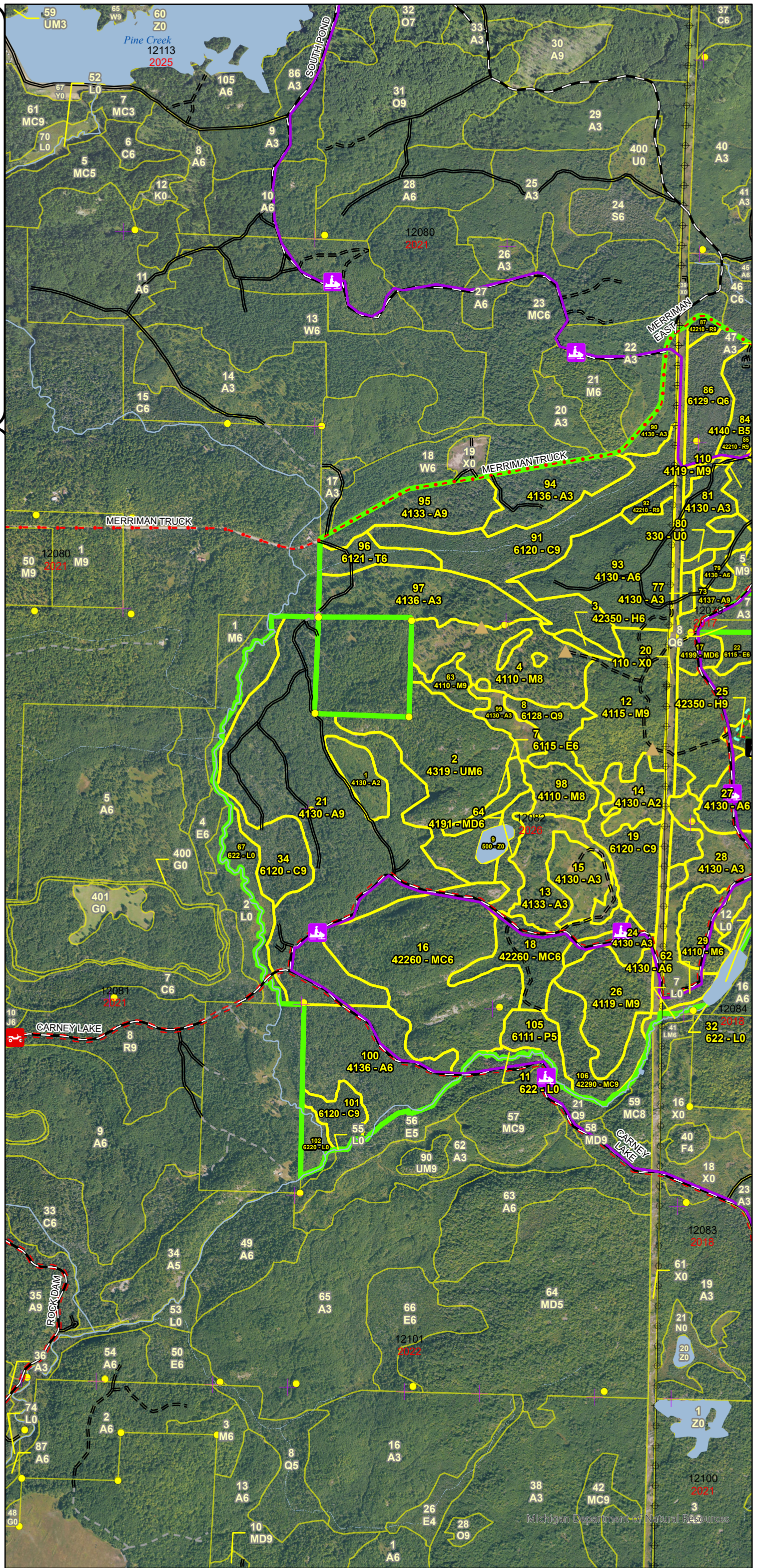


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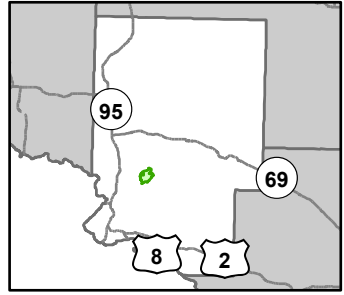
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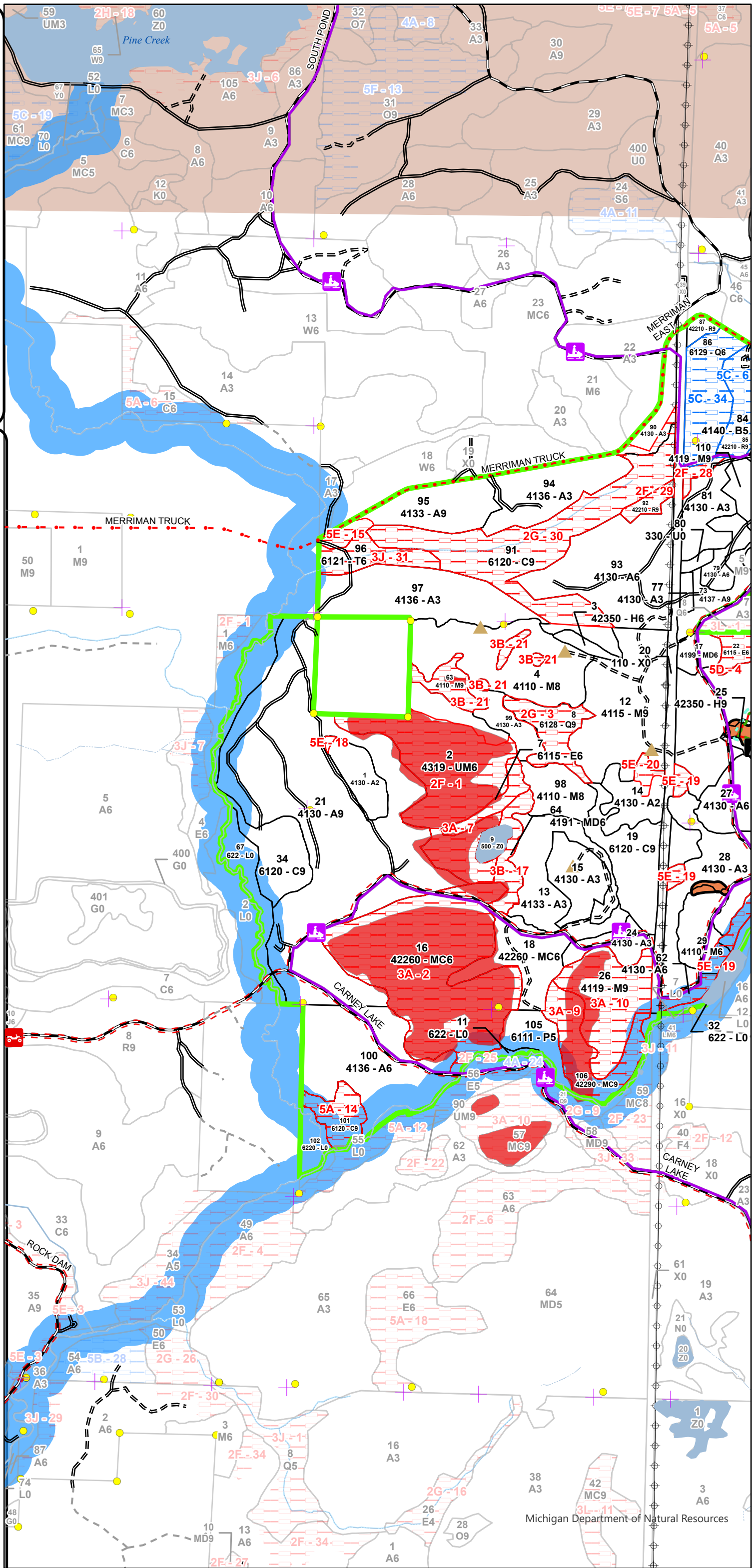


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  - Other Habitat Area



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	124	52	9	96	52	222	14	0	26	0	0	0	0	0	0	0	0	595
Cedar	0	0	0	0	0	0	0	0	0	29	36	0	65	0	0	0	0	0	130
Hemlock	0	0	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	8
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	14	24	0	0	0	0	0	0	38
Lowland Deciduous	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Mixed Upland Deciduous	0	0	0	0	0	0	0	6	9	0	11	0	0	0	0	0	0	0	26
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	27	93	0	0	0	0	0	0	22	142
Northern Hardwood	0	0	0	0	0	0	0	0	0	73	132	0	0	0	0	0	0	24	229
Paper Birch	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	27
Tamarack	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
<b>Total</b>	<b>164</b>	<b>124</b>	<b>52</b>	<b>9</b>	<b>96</b>	<b>52</b>	<b>222</b>	<b>26</b>	<b>15</b>	<b>169</b>	<b>384</b>	<b>24</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>1471</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 82  
Total Compartment Acres: 1,470

Commercial Harvest - 261  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	166	0	0	0	0	0	0	0	0	166
Northern Hardwood	0	0	0	0	84	0	0	0	0	84
Paper Birch	0	0	0	11	0	0	0	0	0	11
<b>Total</b>	<b>166</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>261</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	261	0	0	0	0	55	0	0	0	316
Next Step	0	11	0	11	0	166	0	0	0	188
<b>Total</b>	<b>261</b>	<b>11</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>221</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>504</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
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**Proposed Treatments:**

<b>12</b>	<b>12082012-Cut</b>	83.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	95	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70-90BA. Do not mark Pine, Cedar, Hemlock or Oak.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>21</b>	<b>12082021-Cut</b>	91.2	4130 - Aspen	Sawtimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 2 inch spec. Leave Cedar, Pine, Oak, Cherry Birch and Hemlock if present. Buffer along Pine Creek will be the retention.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Birch, Maple, Oak, Pine, Fir, Spruce  <u>Other Comment:</u> Pine Creek is buffered 300 feet treatment is adjusted to show this.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>73</b>	<b>12082073-Cut</b>	11.0	4137 - Aspen, Birch	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 3 inch spec. Leaving Cedar, Pine, Oak, Yellow Birch and Hemlock if present.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Maple, Birch, Pine, Fir, Spruce.  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>84</b>	<b>12082084-Cut</b>	10.9	4140 - Other Upland Deciduous	Poletimber Medium	84	51-80	Harvest	Seed Tree	4193 - Birch, Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 3 inch spec. Leave 1-2 healthy Birch trees per acre. If present leave a clump of birch. Leave Pine, Cedar, Hemlock and Oak if present.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Scarification; Seeding, Machine Seed  <u>Treatments:</u>  <u>Acceptable Regen:</u> Birch, Aspen, Maple, Fir, Spruce, Pine  <u>Other 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
<b>95 12082095-Cut</b>	22.3	4133 - Aspen, Mixed Pine	Sawtimber Well	84	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest to a 3 inch spec. Leave Cedar, Pine, Oak, Hemlock, Cherry, Birch if present.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Maple, Fir, Spruce, Pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>100 12082100-Cut</b>	41.5	4136 - Aspen, Mixed Conifer	Poletimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 3 inch spec. Leave Cedar, Pine, Oak, Cherry, Birch and Hemlock if present. Buffer along Lost Lake Creek will be the retention. Leave 1 aspen per 2 acres. Leave 3-5 patches of 4 inch spruce fir where available.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Aspen, Maple, Birch, Pine Fir, Spruce  <u>Regen:</u>  <u>Other</u> Treatment has been adjusted for the buffers along the creeks.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2025</p>										

**Approved Treatments:**

<b>4 12082004-Monitor</b>	44.0	4110 - Sugar Maple Association	Sawtimber Medium	87	51-80	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> White birch sprouts, both big tooth and quaking aspen, spruce and balsam, red maple sprouts and possible seedlings from leave trees.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</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
98 12082098-Monitor	11.4	4110 - Sugar Maple Association	Sawtimber Medium	87	51-80	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce and balsam, ash, oak white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment Acreage Proposed: 316.1**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 82

Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
584	562	0	22
130	59	0	71
8	8	0	0
2	2	0	0
11	11	0	0
38	0	24	14
12	0	0	12
81	81	0	0
27	6	0	21
142	27	0	115
229	185	0	44
11	11	0	0
26	3	18	6
12	0	0	12
66	9	0	58
27	27	0	0
53	53	0	0
1,459	1,044	41	374
	72%	3%	26%

### Dominant Site Conditions

	Dominant Site Conditions												
	5C	2F	2G	2H	3A	3B	3J	5A	5D	5E			
Aspen			3									19	
Cedar			61					11					
Hemlock													
Low-Density Trees													
Lowland Aspen/Balsam Poplar													
Lowland Conifers	24		14										
Lowland Deciduous					6					6			
Lowland Shrub													
Mixed Upland Deciduous				11		9							
Natural Mixed Pines					115								
Northern Hardwood			0		31	11							2
Paper Birch													
Red Pine	18	6											
Tamarack							12						
Upland Mixed Forest		58											
Urban													
Water													
Total Forested Acres	41	64	77	11	152	20	12	11	6	21			
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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	58	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

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2	Unavailable	3A: Conservation Values incompatible with harvest at this time	93	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There is hemlock along with the cedar here which we do not harvest.							
4	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> There isn't enough volume to go after.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Proposed ERA for Natural Community EO (rough area; not exact boundary of EO)							



**Report 4 – Site Conditions**

Crystal Falls Mgt. Unit

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9	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5A: Not able to obtain desirable regeneration	39	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 82

Year of Entry: 2026

17	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	9	3J: Water quality / BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
<b>Comments:</b> Bedrock Glades ERA buffer, Riparian buffer, Long term retention for YOYO Mix Timber Sale Stand 13 & 15.							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention, and Pine Creek buffer							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	11	5E: Long-Term Retention	2F: Too steep	Unspecified	Unspecified
<b>Comments:</b> Bedrock Glades ERA buffer, vernal pond buffers, retention							
25	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Crystal Falls Mgt. Unit  
 Rich Goupell : Examiner

Compartment: 82  
 Year of Entry: 2026

29	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave for next entry to increase diameters.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>1</b>	4130 - Aspen	Sapling Medium	11.8	5	Immature	N/A	Cut 2019 part of YOYO Mix SBW			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Wild Red Raspberry		Medium	< 5 feet	Tall Shrub

<b>2</b>	4319 - Mixed Upland Forest	Poletimber Well	66.3	90	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole	8		White Spruce		Low	Variable	Sapling
Quaking Aspen		10	Log/Pole	10		White Pine		Low	Variable	Sapling
Red Maple		20	Pole/Log	8		Red Pine		Low	Variable	Sapling
Red Pine		35	Log/Pole	12	90	Balsam Fir		Low	Variable	Seeding
Paper Birch		10	Pole/Sap/Log	9						
Red Oak		5	Log	12						
White Pine		5	Log	12						
Bigtooth Aspen		10	Log/Pole	10						

<b>3</b>	42350 - Upland Hemlock	Poletimber Well	3.1	85	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Yellow Birch		2	Pole/Log	8						
Hemlock		96	Pole/Log	8	85					
Sugar Maple		2	Pole/Log	8						

<b>4</b>	4110 - Sugar Maple Association	Sawtimber Medium	44.1	87	51-80	N/A	Cut 2018 part of YOYO Mix SBW.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log/Pole	12		Sugar Maple		Low	Variable	Seeding
Sugar Maple		83	Log/Pole	12	87	Balsam Fir		Low	Variable	Seeding
Yellow Birch		1	Log/Pole	12		Red Maple		Low	Variable	Seeding
White Ash		2	Log/Pole	12						
Basswood		7	Log/Pole	12						
Red Pine		2	Log/Pole	12						

<b>7</b>	6115 - Lowland Ash	Poletimber Well	6.2	75		N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		5	Pole/Log	10		Black Ash		Low	Variable	Seeding
Black Ash		95	Pole/Log	8	75					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 14.0 96 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	10	
Northern White Cedar	20	Log/Pole	12	
Hemlock	50	Log/Pole	12	96
Yellow Birch	20	Log/Pole	10	

9 500 - Water Nonstocked 3.9 No

11 622 - Lowland Shrub Nonstocked 1.6 Unspecified No

12 4115 - Y.Birch, Hemlock NH Sawtimber Well 86.1 95 111-140 N/A Cut 1996 part of Air Cuda sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	15	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Red Oak	5	Log/Pole	12		Sugar Maple	Low	Variable	Seeding
Basswood	10	Log/Pole	12		Ironwood	High	Variable	Sapling
Paper Birch	5	Log/Pole	12					
Yellow Birch	5	Log/Pole	12					
Sugar Maple	60	Log/Pole	12	95				

13 4133 - Aspen, Mixed Pine Sapling Well 25.8 6 Immature N/A Needs to be re-inventoried; stand updated via treatment report. Long term retention for YOYO Mix Timber Sale in Stand 64. Cut 2018 part of YOYO Mix SBW

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	1	6
Red Pine	30	Log	12	

14 4130 - Aspen Sapling Medium 14.5 6 Immature N/A Needs to be re-inventoried; stand updated via treatment report. Cut 2018 part of YOYO Mix SBW

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	1	6
Northern White Cedar	15	Pole/Log	8	

15 4130 - Aspen Sapling Well 15.8 6 Immature N/A Needs to be re-inventoried; stand updated via treatment report. Long term retention for YOYO Mix Timber Sale in Stand 64. Cut 2018 part of YOYO Mix SBW

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	6



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
16	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	93.4	95	81-110	N/A	Most of the Oak is in the North part of the stand. Birch and Aspen is mostly found in the center of the stand.																																																									
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17	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.4	61	111-140	N/A	East of the road was cut with Air Cuda Sale in 1996. Only Aspen and Birch were removed from the stand.																																																									
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19	6120 - Lowland Cedar	Sawtimber Well	23.6	96	111-140	N/A	Some scattered Black Ash in the stand. Except it to be dead next inventory due to EAB.																																																									
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20	110 - Low Intensity Urban	Nonstocked	26.9			No																																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>21</b>	4130 - Aspen	Sawtimber Well	168.1	56	111-140	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 Pine		5	Log/Pole	10		White Pine	Tall Shrub
Paper Birch		5	Pole	8		Choke Cherry	Seeding
Red Pine		5	Log/Pole	10		Balsam Fir	Seeding
Balsam Fir		5	Pole	6			
Red Maple		5	Pole	8			
Red Oak		5	Log/Pole	10			
Quaking Aspen		65	Pole/Log	8	56		
Bigtooth Aspen		5	Log/Pole	10			

<b>22</b>	6115 - Lowland Ash	Poletimber Well	5.6	64	141-170	N/A	Emerald Ash Borer is found in the stand, some of the ash is dying out.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black Ash		80	Pole	6	64		
Balsam Fir		5	Pole	6			
Northern White Cedar		10	Log/Pole	10			
Paper Birch		5	Pole	5			

<b>24</b>	4130 - Aspen	Sapling Well	9.0	20	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		20	Sapling	2			
Quaking Aspen		80	Sapling	2	20		

<b>25</b>	42350 - Upland Hemlock	Sawtimber Well	5.3	95		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Sugar Maple		2	Log/Pole	12			
Yellow Birch		2	Log	12			
Hemlock		96	Log	16	95		

<b>26</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	30.9	95	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		5	Pole/Log	9		Leatherwood	Tall Shrub
Ironwood		10	Pole	5		Ironwood	Seeding
Quaking Aspen		15	Log	12		Balsam Fir	Seeding
Sugar Maple		10	Log/Pole	10			
Red Maple		50	Log/Pole	10	95		
Basswood		10	Log/Pole	10			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
27	4130 - Aspen	Poletimber Well	30.3	44		N/A	Cut in 1980																																					
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28	4130 - Aspen	Sapling Well	36.1	6	Immature	N/A	Long term retention for YOYO Mix Timber Sale in stand 62. Cut 2018 part of YOYO Mix SBW																																					
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29	4110 - Sugar Maple Association	Poletimber Well	14.6	95	51-80	N/A																																						
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31	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	11.4	94	141-170	N/A																																						
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32	622 - Lowland Shrub	Nonstocked	50.0			No																																						
33	500 - Water	Nonstocked	49.5			No	Lost Lake.																																					
34	6120 - Lowland Cedar	Sawtimber Well	18.2	86	51-80	N/A	Scattered Balsam Poplar, Aspen, Red Maple, and White Birch. Most of the Balsam Fir and spruce has died due to Spruce Bud Worm.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
62	4130 - Aspen	Poletimber Well	12.7	41	141-170	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>
Quaking Aspen		95	Pole	7	41	Balsam Fir	High	Variable	Sapling
Balsam Fir		5	Pole	5					
63	4110 - Sugar Maple Association	Sawtimber Well	11.1	87	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Sugar Maple		55	Log/Pole	10	87				
Hemlock		2	Log/Pole	12					
Red Maple		3	Log/Pole	10					
Basswood		35	Log	12					
White Ash		2	Log	12					
Yellow Birch		2	Log/Pole	10					
Northern White Cedar		1	Log	10					
64	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.3	77	111-140	N/A	Very rocky.		
<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>
Paper Birch		15	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Red Maple		25	Pole	6					
Red Pine		15	Log	14					
White Pine		10	Log/XLog	14					
Northern White Cedar		5	Pole	8					
Quaking Aspen		30	Log/Pole/Sap	12	77				
67	622 - Lowland Shrub	Nonstocked	23.0			No	Heavier to tag alder as the stand progresses S. Scattered Spruce, fir, cedar inclusions. Soil: Waucedah Cathro complex		
73	4137 - Aspen, Birch	Sawtimber Well	13.7	60	81-110	N/A	Trace of Red Oak, Cedar. Black Ash pocket in the north part of the stand. Most of it is dead from EAB.		
<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>
Paper Birch		25	Log	10		Ironwood	Medium	Variable	Sapling
Red Maple		15	Log	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		5	Pole	6					
Black Ash		3	Pole/Sapling	5					
Yellow Birch		2	Log/Pole	10					
Quaking Aspen		50	Log	12	60				
77	4130 - Aspen	Sapling Well	2.3	34	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 1990.7/19/23: Updated to non-OI cover type.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		85	Sapling	4	34				
Balsam Fir		5	Sapling	4					
Red Maple		10	Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
79	4130 - Aspen	Poletimber Well	9.1	42	51-80	N/A	OPIC - FMD: OAK IN STAND 7/19/23: Updated to non-OI cover 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>
Red Oak		5	Log/XLog	16		Sugar Maple	Medium	>20 feet	Sapling
Quaking Aspen		95	Pole	7	42	Balsam Fir	Medium	>20 feet	Sapling
						Ironwood	Medium	10 - 20 feet	Sapling
80	330 - Low-Density Trees	Nonstocked	1.9		Immature	6115 - Lowland Ash	Black Ash died out in the stand. A small pocket of 8 inch Cedar remains.		
81	4130 - Aspen	Sapling Well	15.3	34	Immature	N/A	OPIC - FMD: CUT in 1990		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Quaking Aspen		80	Sapling	3	34				
Balsam Fir		10	Sapling	2					
Paper Birch		10	Sapling	2					
84	4140 - Other Upland Deciduous	Poletimber Medium	10.9	84	51-80	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>
Quaking Aspen		5	Log	10		Balsam Fir	Low	Variable	Sapling
Red Maple		5	Log	10					
Paper Birch		90	Log/Pole	10	84				
85	42210 - Natural Red Pine	Sawtimber Well	17.5	91	51-80	N/A	OPIC - FMD: Aspen removed from stand in 1994. now largely A3 with red and white pine scattered throughout.(2009)		
<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	Log/XLog	16	91	Quaking Aspen	High	>20 feet	Sapling
						Balsam Fir	Medium	Variable	Sapling
86	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	23.8	100	111-140	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		20	Pole/Log	9		Tag Alder	Low	Variable	Tall Shrub
Tamarack		35	Pole	6					
Black Spruce		45	Pole	6	100				
87	42210 - Natural Red Pine	Sawtimber Well	2.7	96	111-140	N/A	OPIC - FMD: OI Stand Year Origin was 1928		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Pine		90	Log	16	96				
Red Maple		5	Pole	6					
Paper Birch		2	Pole	6					
Quaking Aspen		3	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
90	4130 - Aspen	Sapling Well	10.6	11	Immature	N/A	Sale harvested 2013 with "Bits And Pieces Sale" #12-055-11-01. A few scattered super canopy Pines.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		100	Sapling	1	11		
91	6120 - Lowland Cedar	Sawtimber Well	65.2	112	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1912
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		90	Log/Pole	12	112		
Tamarack		5	Pole	8			
Blue Spruce		5	Pole	6			
92	42210 - Natural Red Pine	Sawtimber Well	6.2	94	141-170	N/A	OPIC - FMD: MANAGE FOR OLD GROWTH VERY STEEP ROCKBLUFFS, THERMAL COVER.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		10	Log	14			
Red Pine		80	XLog/Log	18	94		
Hemlock		10	Log	12			
93	4130 - Aspen	Poletimber Well	51.0	34	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 1990.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		3	Log/XLog	16			
Hemlock		2	Log/XLog	16			
Balsam Fir		5	Sapling/Pole	4			
Red Maple		10	Pole/Sapling	5			
Paper Birch		5	Sapling/Pole	4			
Quaking Aspen		75	Pole/Sapling	5	34		
94	4136 - Aspen, Mixed Conifer	Sapling Well	27.3	33	Immature	N/A	OPIC - FMD: ASPEN REMOVED IN 1991. OVERSTORY PRIMARILY SPRUCE FIR WITH SOME PINE. VERY GOOD SPRUCE FIR REGENERATION WITH A3 IN SPOTS. Fir was hit by Spruce bud worm.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		10	Log/XLog	16			
Balsam Fir		11	Pole/Sapling	6			
White Pine		9	Log/XLog	16			
Quaking Aspen		70	Sapling	4	33		
95	4133 - Aspen, Mixed Pine	Sawtimber Well	26.0	84	81-110	N/A	OPIC - FMD: Much white pine and spruce/fir along with young aspen. Aspen along road larger and in poorer condition. Hold stand another 10 years to allow F type to grow then harvest larger F and aspen. 2009Fir has been hit hard by Spruce bud worm.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		25	Log/Pole	12			
Quaking Aspen		60	Log	12	84		
Balsam Fir		15	Pole	6			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Balsam Fir		Medium	Variable	Sapling			
96	6121 - Tamarack	Poletimber Well	11.9	112	51-80	N/A	OPIC - FMD: MITCHELL CREEK RUNS THROUGH CENTER(2009)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Tamarack		100	Pole	6	112		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>97</b>	4136 - Aspen, Mixed Conifer	Sapling Well	41.3	11	Immature	N/A	OPIC - FMD: Retain hemlock, cedar and pine. Line out areas of heavy hemlock and cedar. Clearcut remainder except portion in center of stand high to nicer hardwood. Make a unit and remove aspen, birch, possibly some red maple from this area. Aspen/F acceptable alternative MO if pine reproduction not adequate.(2009) Sale harvested 2013 with "Bits And Pieces Sale" #12-055-11-01. 7/19/23: Updated to non-OI cover type.																																																		
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<b>98</b>	4110 - Sugar Maple Association	Sawtimber Medium	18.2	87	51-80	N/A	Cut 2018 part of YOYO mix SBW																																																		
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<b>99</b>	4130 - Aspen	Sapling Well	8.9	6	Immature	N/A	Needs to be re-inventoried; stand updated via treatment report. Long term retention for YOYO Mix Timber Sale in Stand 63 cut 2018 part of YOYO Mix SBW																																																		
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<b>100</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	54.0	57	Unspecified	N/A	Pockets of heavy spruce/fir understory. Scattered supercanopy white and red pine throughout. Cedar present, but just a trace. Hold 10 years.																																																		
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<b>101</b>	6120 - Lowland Cedar	Sawtimber Well	10.5	84		N/A	dense cedar/b. spruce stand																																																		
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<b>102</b>	6220 - Alder/willow	Nonstocked	6.5			No																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**105**      6111 - Lowland Balsam Poplar      Poletimber Medium      11.1      101           N/A      Very wet. Area of tag alder on west side. What's not wet is rock.EAB present in the stand. Some of the Black Ash is dying or dead.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	6		Balsam Fir	Low	5 - 10 feet	Pole
Balsam Poplar	50	Pole	8	101	White Spruce	Low	5 - 10 feet	Sapling
Black Ash	20	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
White Spruce	2	Pole/Log	8					
Red Maple	5	Pole	6					
Balsam Fir	3	Pole	6					
Paper Birch	10	Pole/Log	8					

**106**      42290 - Natural Mixed Pine      Sawtimber Well      21.5      101      111-140      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log	12		White Pine	Medium	Variable	Sapling
Northern White Cedar	10	Log/XLog	14		Balsam Fir	Low	10 - 20 feet	Pole
Red Pine	35	Log/XLog	16	101	White Spruce	Low	10 - 20 feet	Pole
White Pine	35	Log/XLog	16	101	Red Pine	Medium	Variable	Sapling
Red Maple	10	Log/Pole	12					

**108**      4130 - Aspen      Sapling Medium      11.0      8      Immature      N/A      This stand was cut during the spring/summer of 2017 as part of sale #020-16-01.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	8

**110**      4119 - Mixed Northern Hardwoods      Sawtimber Well      23.8      101      81-110      N/A      OPIC - FMD: STAND CUT2005..GUN BARRELS

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	12	101	White Ash	Medium	10 - 20 feet	Sapling
White Ash	5	Log	12		Ironwood	Medium	10 - 20 feet	Sapling
Sugar Maple	15	Log	12					
Basswood	30	Log	14					
Paper Birch	10	Log	12					