



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12094

Entry Year 2025

Acreage: 1,750

County Dickinson

Management Area: Cassidy Creek

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**Stand Examiner:** Rich Goupell

**Legal Description:**

T40N R29W Sec 1, 12, 13

**Identified Planning Goals:**

Manage all forest cover types on a healthy sustainable rotation; encourage diversity within stands; protect all water bodies.

**Soil and topography:**

Rolling topography with shallow soils characterized by Pemene-Rock outcrop complex 6-18% slope.

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

Some private to north otherwise completely surrounded by State land. South half of compartment is primarily State Game Funded. Large power line runs across north portion of compartment.

**Unique Natural Features:**

None

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

None noted.

**Special Management Designations or Considerations:**

Snowmobile trail, ORV trail.

**Watershed and Fisheries Considerations:**

Cassidy Creek in south portion of compartment. Breen Creek, Blomgreen's Marsh Flooding and unnamed streams and wetlands are within this compartment. Best management practices should be implemented which include a 100' buffer.

**Wildlife Habitat Considerations:**

This compartment is in the Cassidy Creek Management Area. Featured species for this area include: Blackburnian warbler, Northern Goshawk, Wood duck, White-tailed deer, and American woodcock. Much of this compartment has been managed intensively to provide habitat for game species. Some portions of this compartment are extremely rugged and were nominated as potential old growth, last entry year. This area provides mature forest condition that is important for featured species such as blackburnian warbler and northern goshawk. This area also provides refuge for deer and bear with less hunting pressure due to difficult access. In addition, un-fragmented forest blocks with large cavity, den and nest and refuge trees are critical habitat components that are in limited supply and necessary for several featured species, such as bear, goshawk, and wood duck. This area is nominated as SCA-Natural Area/Wild Area/Old Growth, depending on criteria. Let natural processes proceed, provide mature forest conditions and refuge with limited, difficult access. Not building roads and bridges into these stands will protect fragile ecosystems that exist in and around the area nominated.

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

Gravel is found in shallow deposits. The rock is generally non merchantable.

**Vehicle Access:**

Access is rather limited to Cassidy Creek trail on south.

**Survey Needs:**

Some might be needed

**Recreational Facilities and Opportunities:**

ORV route and Snowmobile trail. Hunting, trapping.

**Fire Protection:**

Norway protection area.

**Additional Compartment Information:**

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

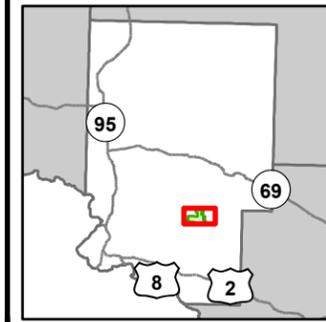
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

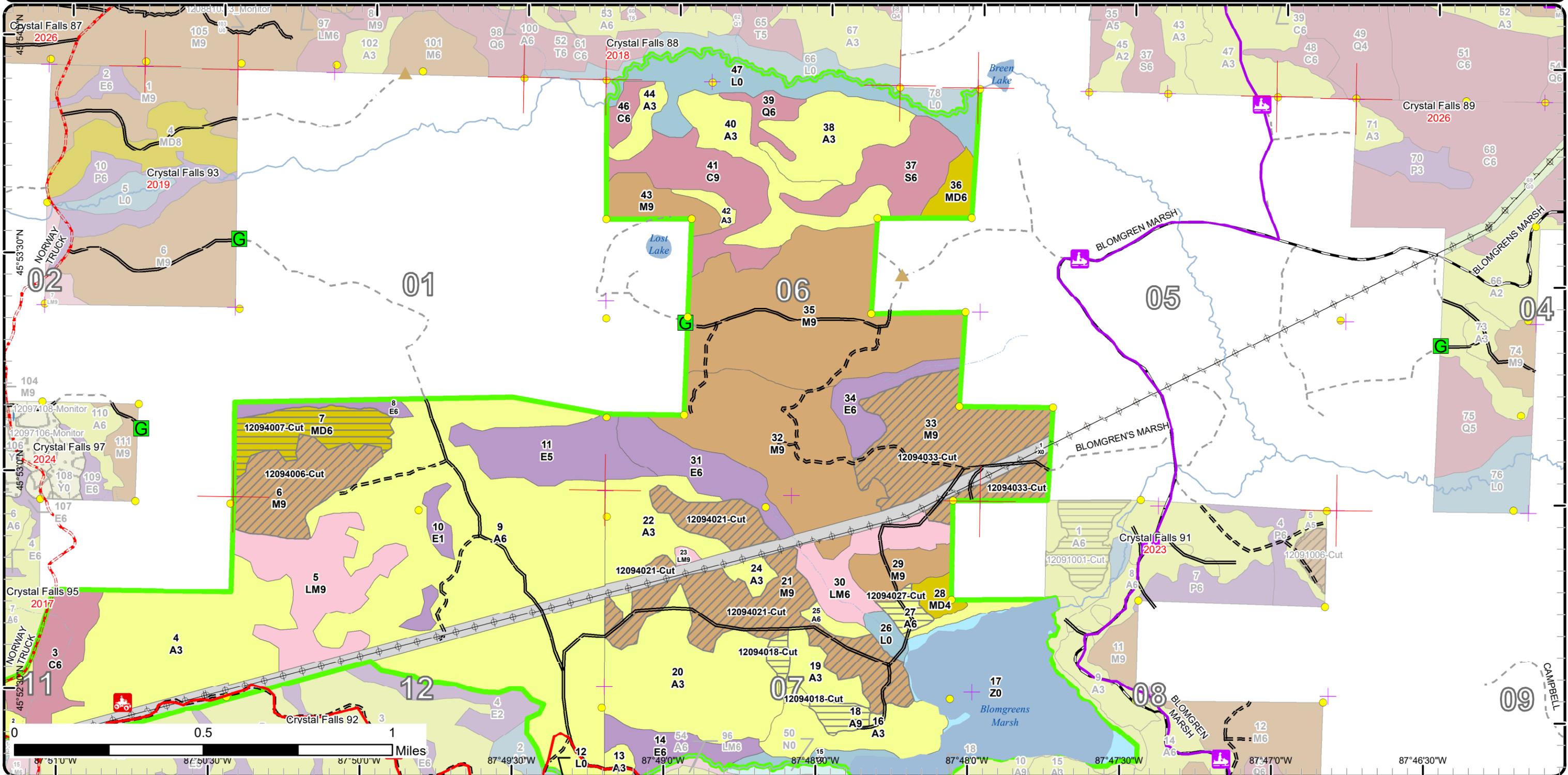
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 94  
 T40N R29W Sec1,12,13  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2025  
 Acres: 1749.7 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 8/2/2023  
 Map Phase: Review

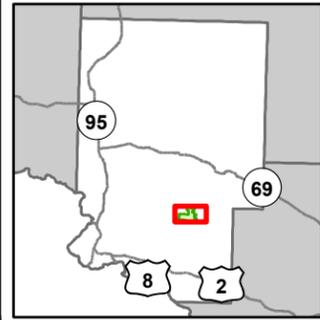


- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>⊕ Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>--- Counties</li> <li>— DNR - Primary Forest Road</li> <li>— DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>- · - County - Gravel Road</li> <li>- - - Private - Dirt / Gravel Road</li> <li>🚙 ORV Trails</li> <li>🛷 Snowmobile Trails</li> <li>— Designated ATV</li> <li>- - - Designated ORV Route</li> </ul> | <ul style="list-style-type: none"> <li>▲ Berms</li> <li>Ⓜ Gate</li> <li>⌒ Culvert</li> <li>— Intermittent Stream</li> <li>— Lake/Pond</li> <li>— Perennial River</li> <li>— Lakes and Rivers</li> <li>⚡ Powerline</li> <li>▭ Compartment Boundary</li> <li>▭ Clearcut (w/Reserves)</li> <li>▨ Thinning (Crown, Low, Systematic)</li> <li>■ 411 - Northern Hardwood</li> <li>■ 413 - Aspen</li> <li>■ 419 - Mixed Upland Deciduous</li> </ul> | <ul style="list-style-type: none"> <li>■ 611 - Lowland Deciduous Forest</li> <li>■ 612 - Lowland Coniferous Forest</li> <li>■ 613 - Lowland Mixed Forest</li> <li>■ 110 - Low Intensity Urban</li> <li>■ 500 - Water</li> <li>■ 622 - Lowland Shrub</li> </ul> |
|--|--|--|

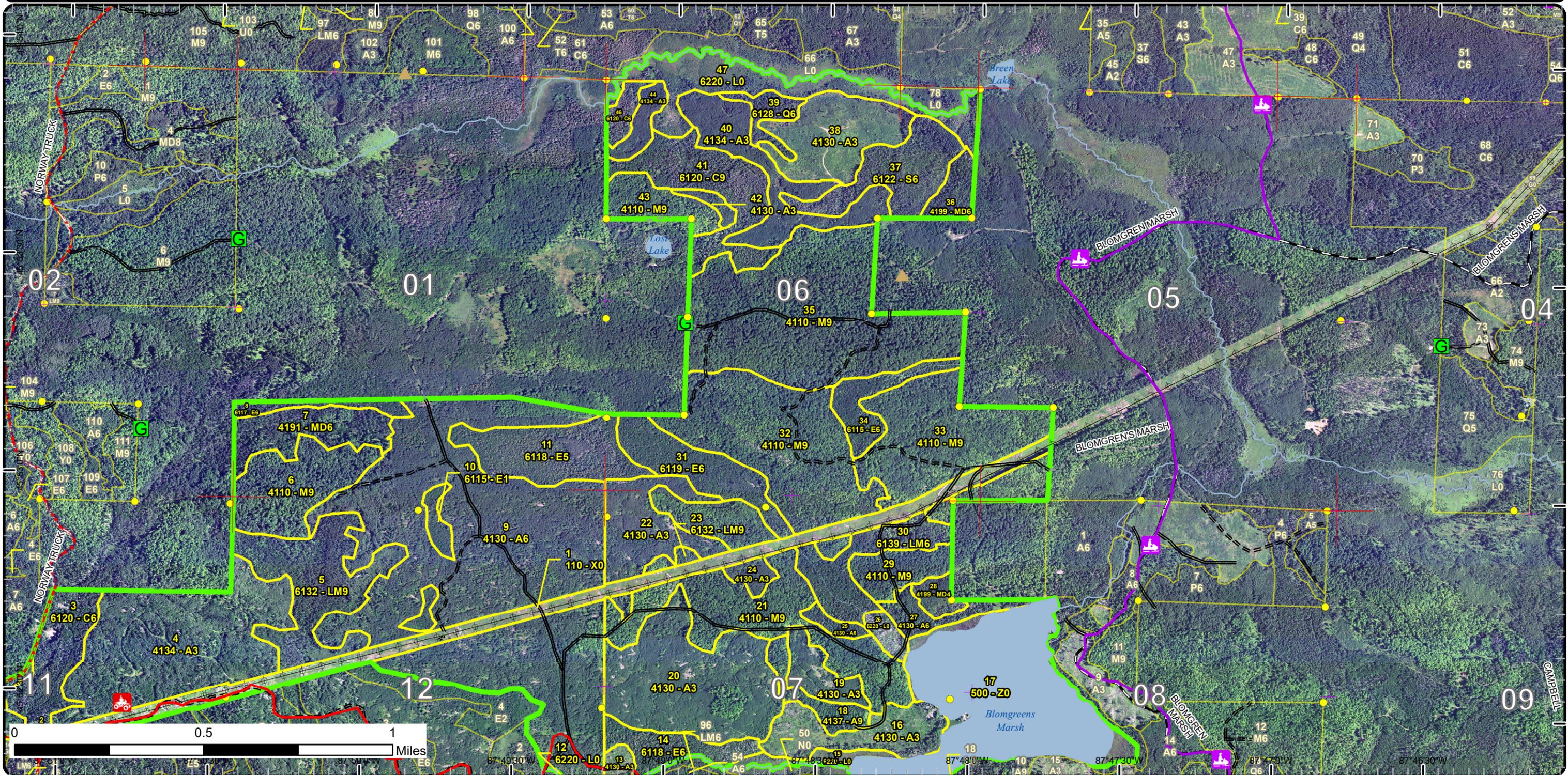


# Stand Boundary Map

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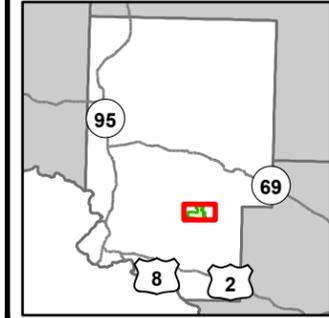


- Miris Corners
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- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚙 Snowmobile Trails
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- Designated ORV Route
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- ▲ Berms
- G Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 500 - Water
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest

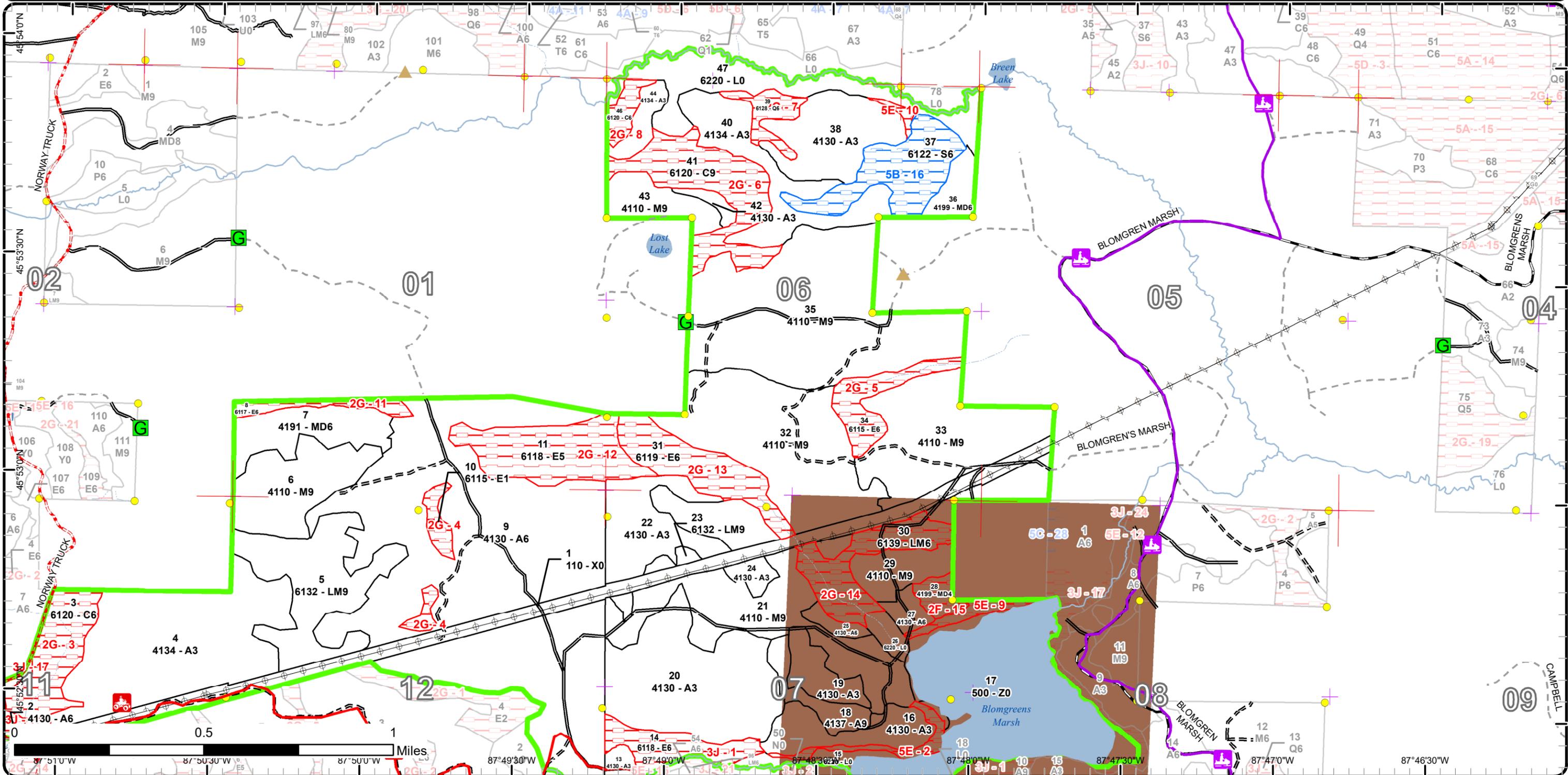


# Special Conservation Areas

Compartment: 94  
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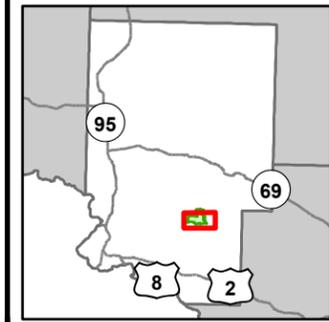


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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Wildlife Management Areas

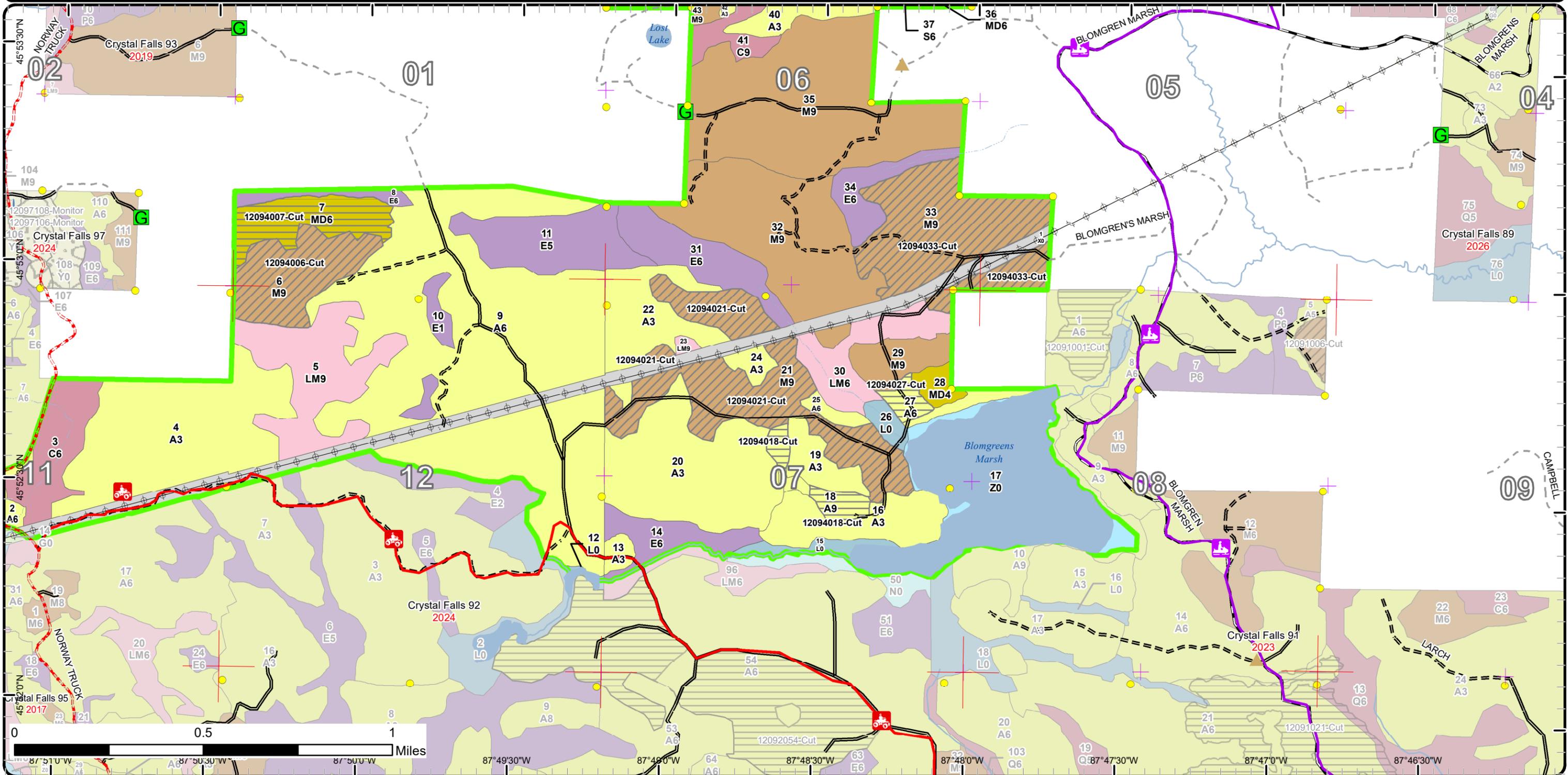


# Cover Type & Treatments Map

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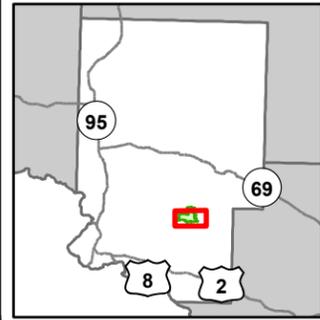


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- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
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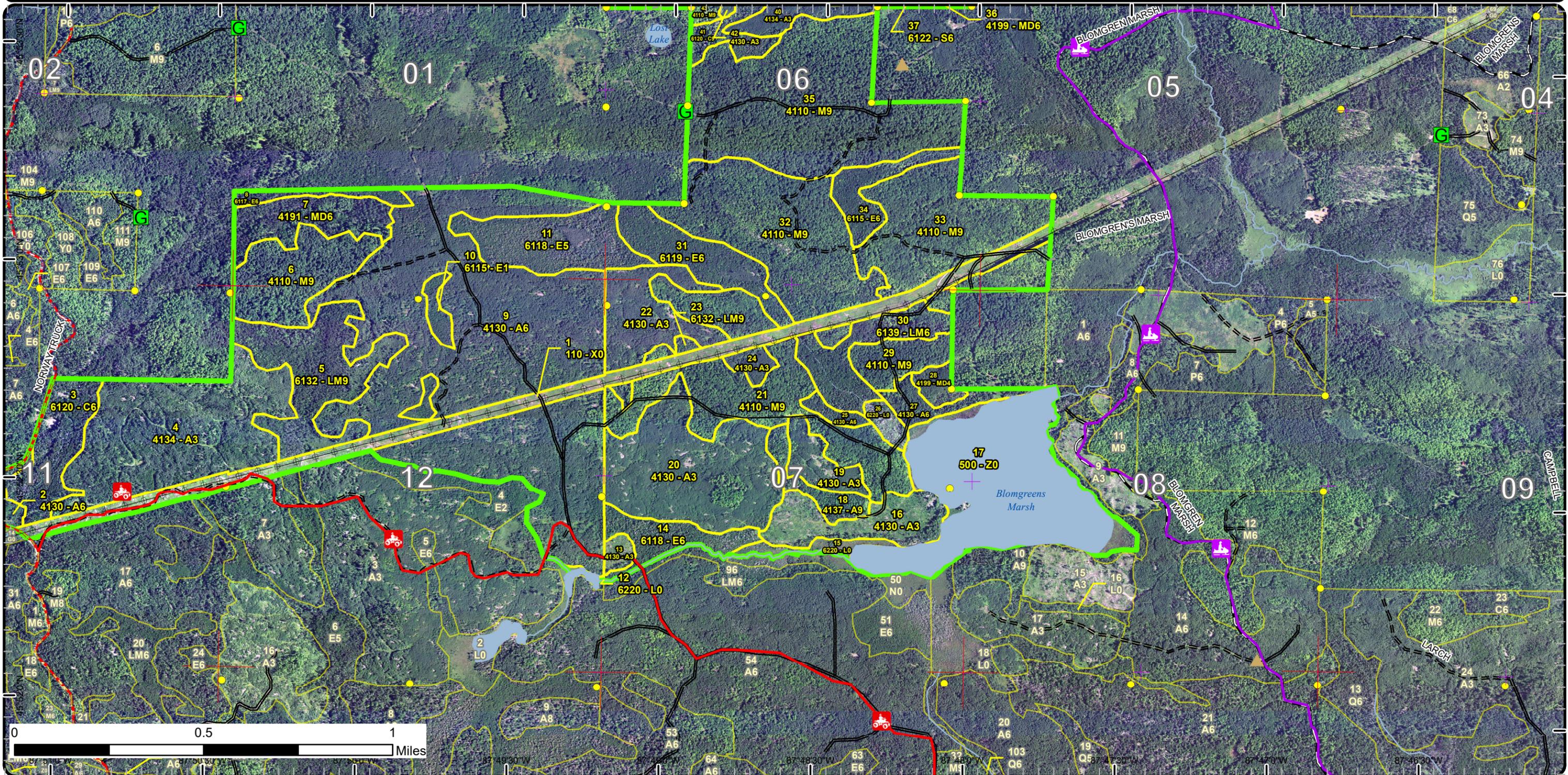


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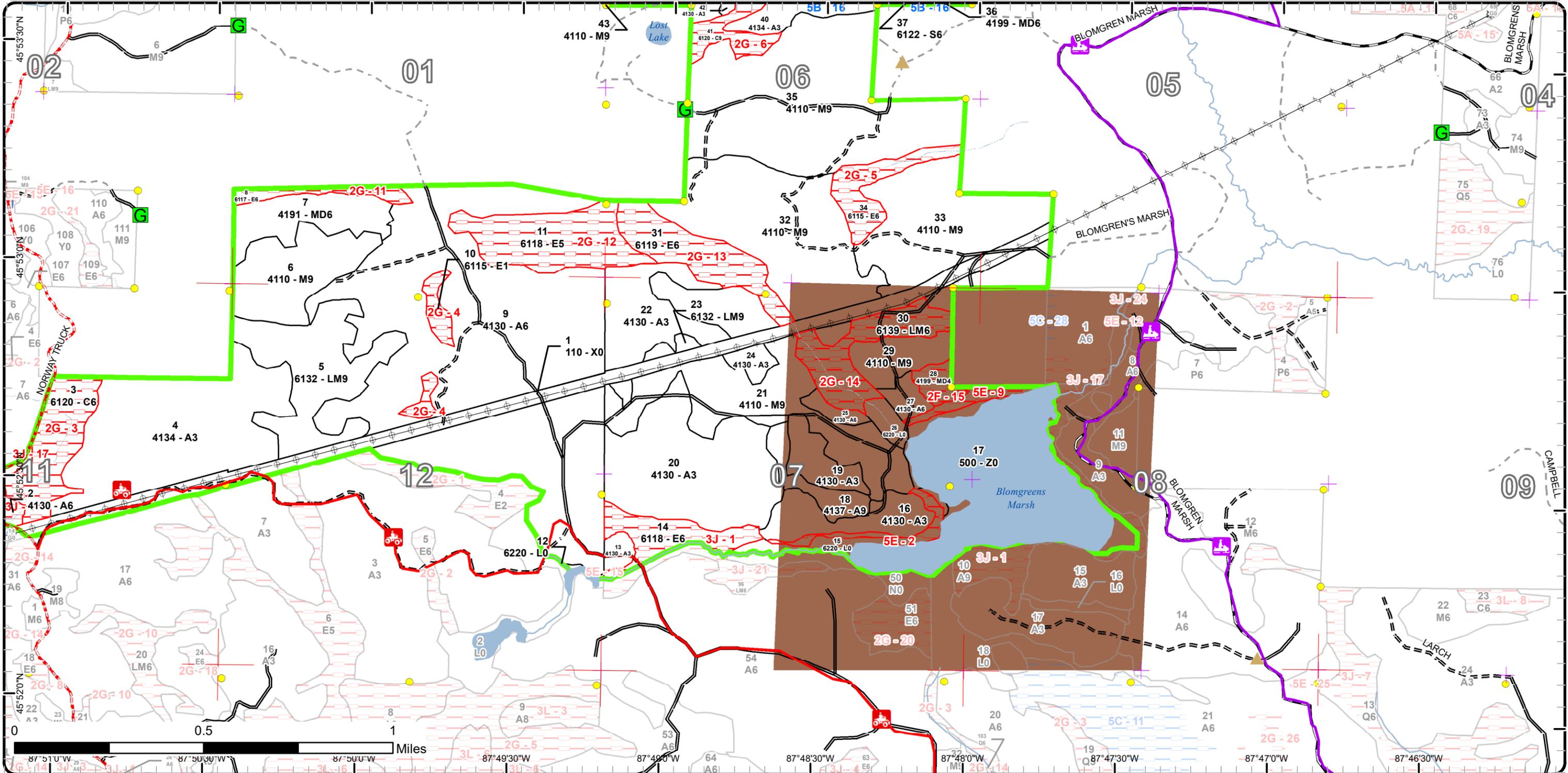


# Special Conservation Areas

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- Lakes and Rivers
- Powerline
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 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
- Wildlife Management Areas



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	76	14	173	377	17	7	0	0	0	12	0	0	0	0	0	0	0	676
Cedar	0	0	0	0	0	0	0	0	0	0	49	0	31	0	0	0	0	0	79
Lowland Conifers	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	17	17	91	0	0	0	0	0	0	0	125
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	84	0	0	0	0	0	0	0	84
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	34
Mixed Upland Deciduous	0	0	0	0	0	10	0	0	7	0	28	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	461	0	0	0	0	0	0	0	461
Urban	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Water	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
<b>Total</b>	<b>236</b>	<b>76</b>	<b>14</b>	<b>173</b>	<b>377</b>	<b>27</b>	<b>7</b>	<b>0</b>	<b>33</b>	<b>17</b>	<b>759</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1748</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 94  
Total Compartment Acres: 1,750

Commercial Harvest - 250  
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	Overshoot Removal	Salvage	Other	Total Acres
Aspen	16	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	28	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	0	0	0	0	206	0	0	0	206
<b>Total</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>206</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	250	0	0	0	0	0	0	0	0	250
Next Step	0	0	0	0	0	0	45	0	0	45
<b>Total</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>295</b>



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

<b>6</b>	<b>12094006-Cut</b>	40.2	4110 - Sugar Maple Association	Sawtimber Well	99	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-90 BA. Leave Yellow Birch, Cherry, Pine and Oak.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>											
<b>7</b>	<b>12094007-Cut</b>	28.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	92	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 2inch spec. Leaving Cedar, Pine, Hemlock and Oak if present. In addition leave pockets of heavy cedar and Black Ash swales for retention.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Maple, Birch, Spruce/Fir, Pine  <u>Other Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>											
<b>18</b>	<b>12094018-Cut</b>	10.1	4137 - Aspen, Birch	Sawtimber Well	96	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all Aspen, Birch and final Harvest all other species 6 inches and greater. Leave Pine, Hemlock, Cedar, and Oak if present.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Maple, Birch, Spruce, Balsam,  <u>Other Comment:</u> The center part of the stand is left for retention.  <u>Site Condition</u>                      Proposed Start Date: 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
<b>21 12094021-Cut</b>	84.8	4110 - Sugar Maple Association	Sawtimber Well	96	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-90 BA. Leave Birch, Cedar, Hemlock, Pine and Oak. Leave a 25 foot no cut buffer along Blomgren's March. Within a 100 foot buffer of the Marsh thin to 80-100BA marking only Maple to provide Soft Cavity trees for cavity nesting birds. Include no brush in a 50 foot buffer of the Marsh. No cutting from April 1 to Aug 1.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>27 12094027-Cut</b>	6.1	4130 - Aspen	Poletimber Well	48	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest to a 2 inch spec. Leaving Pine, Hemlock, Cedar, and Oak if present.</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, Maple, Ash, Spruce, Balsam, Pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
<b>33 12094033-Cut</b>	80.5	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-90 BA. Leave Oak and all conifers.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										

**Total Treatment** 250  
**Acres Proposed:**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Rich Goupell : Examiner

Compartment: 94  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	2F	2G	3J	5E
675	653	0	23	Aspen				7	15
80	0	0	80	Cedar			80		
9	0	0	9	Lowland Conifers			9		
107	0	0	107	Lowland Deciduous			105	2	
84	56	0	29	Lowland Mixed Forest			29		
57	57	0	0	Lowland Shrub					
34	0	34	0	Lowland Spruce/Fir	34				
45	38	0	7	Mixed Upland Deciduous		7			
461	461	0	0	Northern Hardwood					
66	66	0	0	Urban					
113	113	0	0	Water					
1,731	1,444	34	253	Total Forested Acres	34	7	222	9	15
	83%	2%	15%	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	3J: Water quality / BMPs (stream, river, or lake)	20	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Another more pronounced creek coming out of Blomgren Marsh with buffer							
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 94

Year of Entry: 2025

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 94

Year of Entry: 2025

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 94

Year of Entry: 2025

14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2F: Too steep</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	110 - Low Intensity Urban	Nonstocked	65.9			No	Power Transmission Line ROW
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2	4130 - Aspen	Poletimber Well	7.3	50		N/A	South part of stand has a bed and bank flowing through it.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Pole/Log	8	50	White Spruce	Medium	10 - 20 feet	Pole
Black Ash	5	Pole/Log	8		Balsam Fir	Medium	10 - 20 feet	Pole
Balsam Fir	5	Pole	6					
Red Maple	3	Pole/Sapling	6					
Sugar Maple	2	Pole/Sapling	6					
Balsam Poplar	10	Log	10					
Paper Birch	10	Pole	6					

3	6120 - Lowland Cedar	Poletimber Well	31.1	111		N/A	Wet. Buffer to un-named creek.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	70	Pole/Log	9	111	White Spruce	Medium	10 - 20 feet	Pole
Tamarack	5	Pole	8		Balsam Fir	Medium	10 - 20 feet	Pole
Black Spruce	10	Pole	8					
Black Ash	10	Pole/Log	8					
Balsam Fir	5	Pole	8					

4	4134 - Aspen, Spruce/Fir	Sapling Well	100.0	31	Immature	N/A	Cut 1992 254 True North Sale.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Sapling/Pole	4		Balsam Fir	Medium	10 - 20 feet	Sapling
Red Maple	5	Sapling	4		White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	10	Sapling/Pole	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	75	Sapling/Pole	4	31				

5	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	54.4	97	141-170	N/A	cedar is concentrated in center of stand; all fingers are primarily ash, red maple with a trace of birch. Red maple and Balm of gilead along northwest edge; very wet
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	55	Log/Pole	12	97	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	2	Pole	6		Black Ash	Medium	Variable	Sapling
White Spruce	1	Pole	9					
Black Ash	35	Pole/Sapling	5					
Red Maple	5	Pole	7					
Balsam Poplar	2	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4110 - Sugar Maple Association	Sawtimber Well	40.2	99	111-140	N/A	Heavy grass layer. Hawk Haven thinned 1999. Red maple, yellow birch found on north and south edges of stand.
Canopy Species	% Cover	Size Class	DBH	Age			
White Ash	5	Log/Pole	12				
Sugar Maple	55	Log/Pole	13	99			
Red Maple	5	Log/Pole	10				
Basswood	30	Log/Pole	13				
Yellow Birch	5	Log/Pole	10				
Sub-Canopy Species	Density	Avg. Height	Size				
White Ash	High	< 5 feet	Sapling				
Sugar Maple	Low	< 5 feet	Sapling				

<b>7</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.3	92	51-80	N/A	Balm of gilead, white pine and white spruce over 3 sticks were cut in 1992 (No Name TS). Poor quality stand, appears to have been an open area slowly filling in. Not much volume to remove at this time; cut next entry with adjacent hardwood. Evidence of Emerald Ash Borer
Canopy Species	% Cover	Size Class	DBH	Age			
Black Ash	2	Pole	8				
Red Maple	45	Pole/Log	9	92			
White Spruce	5	Pole	8				
Northern White Cedar	10	Log/Pole	10				
Quaking Aspen	18	Pole/Sapling	5	31			
Balsam Fir	5	Pole	8				
Sub-Canopy Species	Density	Avg. Height	Size				
White Spruce	Medium	Variable	Sapling				
Balsam Poplar	Low	Variable	Sapling				
Quaking Aspen	Medium	Variable	Sapling				

<b>8</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.8	81	51-80	N/A	Bed and bank found in far west end. Birch is concentrated in northwest. Very wet stand
Canopy Species	% Cover	Size Class	DBH	Age			
Paper Birch	15	Pole/Log	9				
Black Ash	35	Pole/Sapling	6	81			
White Spruce	5	Log/Pole	10				
Balsam Poplar	2	Log/Pole	12				
Northern White Cedar	18	Log/Pole	10				
Red Maple	23	Pole	9				
Quaking Aspen	2	Log/Pole	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Black Ash	High	Variable	Sapling				

<b>9</b>	4130 - Aspen	Poletimber Well	276.6	32	Immature	N/A	St Onge Camp TS cut 1991. There are wet pockets throughout this stand
Canopy Species	% Cover	Size Class	DBH	Age			
White Spruce	2	Pole/Sapling	5				
Balsam Fir	3	Pole/Sapling	5				
Balsam Poplar	10	Pole/Sapling	5				
Red Maple	20	Sapling	4				
Quaking Aspen	65	Pole/Sapling	5	32			
Sub-Canopy Species	Density	Avg. Height	Size				
Tag Alder	Low	5 - 10 feet	Tall Shrub				
Balsam Fir	Medium	Variable	Sapling				
White Spruce	Medium	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
10	6115 - Lowland Ash	Sapling Poor	8.9	88	1-50	N/A	Very poorly stocked ash and very wet																																						
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Tag Alder	High	5 - 10 feet	Tall Shrub																																										
11	6118 - Lowland Deciduous with Cedar	Poletimber Medium	40.2	93	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1930																																						
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12	6220 - Alder/willow	Nonstocked	0.8	97	Immature	No	OPIC - FMD: OI Stand Year Origin was 1926																																						
13	4130 - Aspen	Sapling Well	4.3	8	Immature	N/A	Harvested 2015 with Dam Sandwich sale #12-011-11-01.																																						
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14	6118 - Lowland Deciduous with Cedar	Poletimber Well	19.9	99	81-110	N/A	Small creek is the South boundary of the stand.																																						
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15	6220 - Alder/willow	Nonstocked	7.3			No	There is a stream running through this stand from Blomgren Marsh.																																						
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16	4130 - Aspen	Sapling Well	31.6	8	Immature	N/A	Stand harvested 2015 with Dam Sandwich sale #12-011-11-01																																						
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17	500 - Water	Nonstocked	113.3			No																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
18	4137 - Aspen, Birch	Sawtimber Well	12.2	96	81-110	N/A																																															
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20	4130 - Aspen	Sapling Well	79.1	21	Immature	N/A	4 acre parch of poor northern hardwood in stand. Aspen and birch is falling out of northern hardwood patch. Cut 2004 part of Treed Bear Aspen Sale.																																														
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21	4110 - Sugar Maple Association	Sawtimber Well	84.8	96	111-140	N/A	Thinned 2004 part of Historic Day Hardwoods.																																														
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22	4130 - Aspen	Sapling Well	35.3	29	Immature	N/A	Cut 1994 part of Singing Strings Sale. There are wet pockets throughout this stand																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**23** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 1.5 99 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log/Pole	10		Black Ash	High	Variable	Sapling
Black Ash	45	Sapling/Pole	4					
Northern White Cedar	50	Log/Pole	10	99				

**24** 4130 - Aspen Sapling Well 5.3 29 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	29
Quaking Aspen	85	Sapling	3	29
Balsam Fir	10	Sapling	3	29

**25** 4130 - Aspen Poletimber Well 4.4 48 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole	6	48	Ash (spp.)	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole	6	48	Ironwood	Low	5 - 10 feet	Sapling
Balsam Poplar	10	Pole	6	48				
Quaking Aspen	50	Pole	6	48				

**26** 6220 - Alder/willow Nonstocked 5.6 0 No

**27** 4130 - Aspen Poletimber Well 12.2 48 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Pole/Log	8	48
Balsam Fir	10	Pole/Log	8	48
White Spruce	5	Pole/Log	8	48
Paper Birch	10	Pole/Log	9	
Sugar Maple	10	Log	10	

**28** 4199 - Other Mixed Upland Deciduous Poletimber Poor 6.5 78 81-110 N/A Black ash is dying out due to Emerald ash borer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Poplar	15	Log	12		Balsam Fir	Medium	Variable	Sapling
Red Maple	5	Pole	8		White Spruce	Low	Variable	Sapling
Black Ash	75	Pole/Log	8	78				

**29** 4110 - Sugar Maple Association Sawtimber Well 16.9 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	10	Log	14	96	Sugar Maple	Low	< 5 feet	Seeding
Sugar Maple	90	Log/Pole	12	96	Blackberry/Raspberry	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 6139 - Mixed Lowland Forest Poletimber Well 28.5 99 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole/Log	10	99	Black Ash	Low	< 5 feet	Seeding
Red Maple	10	Pole/Log	8	99	Black Spruce	Low	< 5 feet	Seeding
Balsam Poplar	20	Pole/Log	12	99				
Black Spruce	30	Pole/Log	10	99				
Northern White Cedar	10	Pole/Log	10	99				
Black Ash	10	Pole/Log	6	99				
Tamarack	15	Pole/Log	12	99				

**31** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 30.8 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	35	Pole/Log	8	99	Black Spruce	Low	Variable	Sapling
Quaking Aspen	15	Log	11		Tag Alder	Low	Variable	Tall Shrub
Red Maple	15	Pole/Log	8	99	Balsam Fir	Low	Variable	Sapling
Balsam Poplar	15	Log/Pole	10	99				
Yellow Birch	10	Log	12	99				
White Spruce	5	Log	10					
Northern White Cedar	5	Log/Pole	10	99				

**32** 4110 - Sugar Maple Association Sawtimber Well 89.8 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	12	96	White Ash	Low	Variable	Seeding
Yellow Birch	3	Log/Pole	10	96				
White Ash	15	Log/Pole	14	96				
Ironwood	2	Log/Pole	8	96				
Basswood	10	Log/Pole	12	96				

There are numerous rock outcrops in this stand. Small drainage flowing to the east.

**33** 4110 - Sugar Maple Association Sawtimber Well 80.5 95 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log	10	95
Basswood	30	Log	12	
White Ash	10	Log	10	

Cut 1997 part of Blomgrins Marsh Hardwood Sale.

**34** 6115 - Lowland Ash Poletimber Well 17.2 73 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log	12		Balsam Fir	Low	Variable	Seeding
Balsam Poplar	10	Pole/Sapling	5		Black Spruce	Low	Variable	Seeding
Yellow Birch	10	Log	12	73	Tag Alder	Medium	Variable	Tall Shrub
Black Ash	70	Pole/Log	8	73				
Paper Birch	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 4110 - Sugar Maple Association Sawtimber Well 131.1 96 81-110 N/A Thinned 2017.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	10	Log/Pole	16	96	White Ash	Low	Variable	Sapling
White Ash	10	Log/Pole	16	96	Basswood	Low	Variable	Sapling
Red Oak	2	Log/Pole	16	96				
Ironwood	3	Pole	5	96				
Yellow Birch	5	Log/Pole	10	96				
Hemlock	5	Log/Pole	16	96				
Sugar Maple	65	Log/Pole	14	96				

**36** 4199 - Other Mixed Upland Deciduous Poletimber Well 9.9 48 81-110 N/A bed and bank in stand. A few scattered large white pine and white spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Log/Pole	10	48	White Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole/Log	8	48				
Balsam Poplar	15	Log/Pole	10	48				
Sugar Maple	5	Pole/Log	8	48				
Quaking Aspen	15	Log/Pole	11					
Red Maple	10	Pole	6	48				
Black Ash	20	Pole	6	48				

**37** 6122 - Black Spruce Poletimber Well 34.3 96 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole/Log	10	96	Tamarack	Low	5 - 10 feet	Sapling
Tamarack	10	Pole/Log	10	96	Black Spruce	Full	5 - 10 feet	Sapling
Northern White Cedar	10	Pole/Log	10	96	Paper Birch	Low	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

**38** 4130 - Aspen Sapling Well 39.8 8 Immature N/A Harvested 2015 with Dam Sandwich sale #12-011-11-01

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

**39** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 9.4 73 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole	6	73	Tamarack	Medium	10 - 20 feet	Sapling
Black Spruce	30	Pole/Log	8	73	Black Spruce	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	10	73	Tag Alder	Medium	< 5 feet	Tall Shrub
Tamarack	30	Pole/Log	8	73	Balsam Fir	Low	Variable	Sapling
Balsam Poplar	15	Pole	6					
Balsam Fir	10	Pole/Log	8	73				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>40</b>	4134 - Aspen, Spruce/Fir	Sapling Well	40.6	25	Immature	N/A	Cut 1998 Part of White Weasel Sale.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Sapling/Pole	4	
Balsam Fir	10	Sapling	2	
White Spruce	10	Sapling	2	
Quaking Aspen	40	Sapling/Pole	4	25

<b>41</b>	6120 - Lowland Cedar	Sawtimber Well	41.9	99	81-110	N/A	Drainage flowing west into Lost Lake. Some higher ground throughout with Aspen and Spruce/Fir.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Log/Pole	8	99	Black Spruce	Low	Variable	Seeding
Black Spruce	5	Pole	8	99	Balsam Fir	Low	Variable	Seeding
Northern White Cedar	90	Log/Pole	10	99				

<b>42</b>	4130 - Aspen	Sapling Well	3.7	29	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Sapling	4	29
Bigtooth Aspen	35	Sapling	4	29

<b>43</b>	4110 - Sugar Maple Association	Sawtimber Well	17.7	91	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Basswood	5	Log/Pole	12	
Sugar Maple	90	Log/Pole	10	91
Ironwood	5	Sapling/Pole	4	

<b>44</b>	4134 - Aspen, Spruce/Fir	Sapling Well	8.7	25	Immature	N/A	Cut 1998 part of White Weasel Sale.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Sapling/Pole	3	25
Balsam Fir	15	Sapling	3	25
White Spruce	10	Sapling/Pole	3	25
Quaking Aspen	55	Sapling	3	25

<b>46</b>	6120 - Lowland Cedar	Poletimber Well	6.6	99		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	Low	Variable	Seeding
Red Maple	5	Pole/Log	9	99	Black Spruce	Low	Variable	Seeding
Black Spruce	20	Pole	8					
Northern White Cedar	55	Pole/Sap/Log	9	99				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
47	6220 - Alder/willow	Nonstocked	42.9			No																					
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Trace</td> <td></td> <td>Seeding</td> </tr> <tr> <td>Mixed Grasses</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td></td> <td>Seeding</td> </tr> <tr> <td>Alder</td> <td>Medium</td> <td></td> <td>Tall Shrub</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Trace		Seeding	Mixed Grasses	Medium		Non-Wood	Balsam Fir	Trace		Seeding	Alder	Medium		Tall Shrub
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