



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12077

Entry Year 2025

Acreage: 1,552

County Dickinson

Management Area: Cassidy Creek

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**Stand Examiner:** Rich Goupell

**Legal Description:**

T41N R29W Sec. 13-15

**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:**

This compartment is mostly upland on fine sandy loams. Small areas of lowland Cathro mucks are represented near West Branch of Sturgeon River. The terrain is rolling hills.

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

Private landownership is located within and around entire compartment. Hunting, fishing, and dispersed camping are the major land use patterns.

**Unique Natural Features:**

West Branch of Sturgeon River

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

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

West Branch of Sturgeon River is a designated cold water stream.

**Watershed and Fisheries Considerations:**

Protect water quality for all bodies of water, including the West Branch of Sturgeon River. Implement buffer protections following best management practice guidelines along watercourses. Mitchell Creek and West Branch of the Sturgeon River are located within this compartment and both are designated Type 1 trout streams. 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 any non-designated or unnamed streams and wetlands, best management practices should be implemented which include a 100' buffer.

**Wildlife Habitat Considerations:**

Encouragement and promotion of mesic conifers such as hemlock and white pine would be advantageous to restore the historic deer wintering complex in the western portion of this compartment and also provide the life requisites for a number of game and nongame species. Later seral stages are also lacking in this compartment and should be encouraged for those species requiring this habitat. Age class diversity in the aspen stands should be increased to provide habitat for grouse, woodcock, deer, bear and turkey.

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

Surface sediments consist of thin to discontinuous medium-textured till and glacial outwash sand and gravel and postglacial alluvium over bedrock. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Group and the Precambrian Michigamme Formation outcrop beneath the glacial drift. There is not a current economic use for these rocks. The Groveland iron mine is located approximately three miles to the northwest. Part of this compartment was previously leased for metallic exploration and potential may still exist. Gravel pits are located in the area and there may be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Access is excellent. The Calumet Mine Road and Merriman Truck Trail are classified as seasonal county roads and are the main access points to this compartment.

**Survey Needs:**

Some corners may be needed.

**Recreational Facilities and Opportunities:**

None.

**Fire Protection:**

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

**Additional Compartment Information:**

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

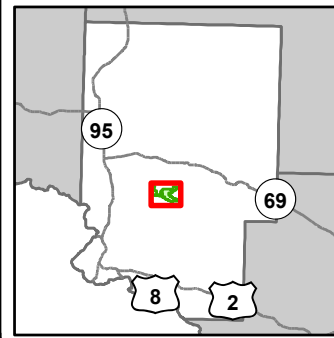
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

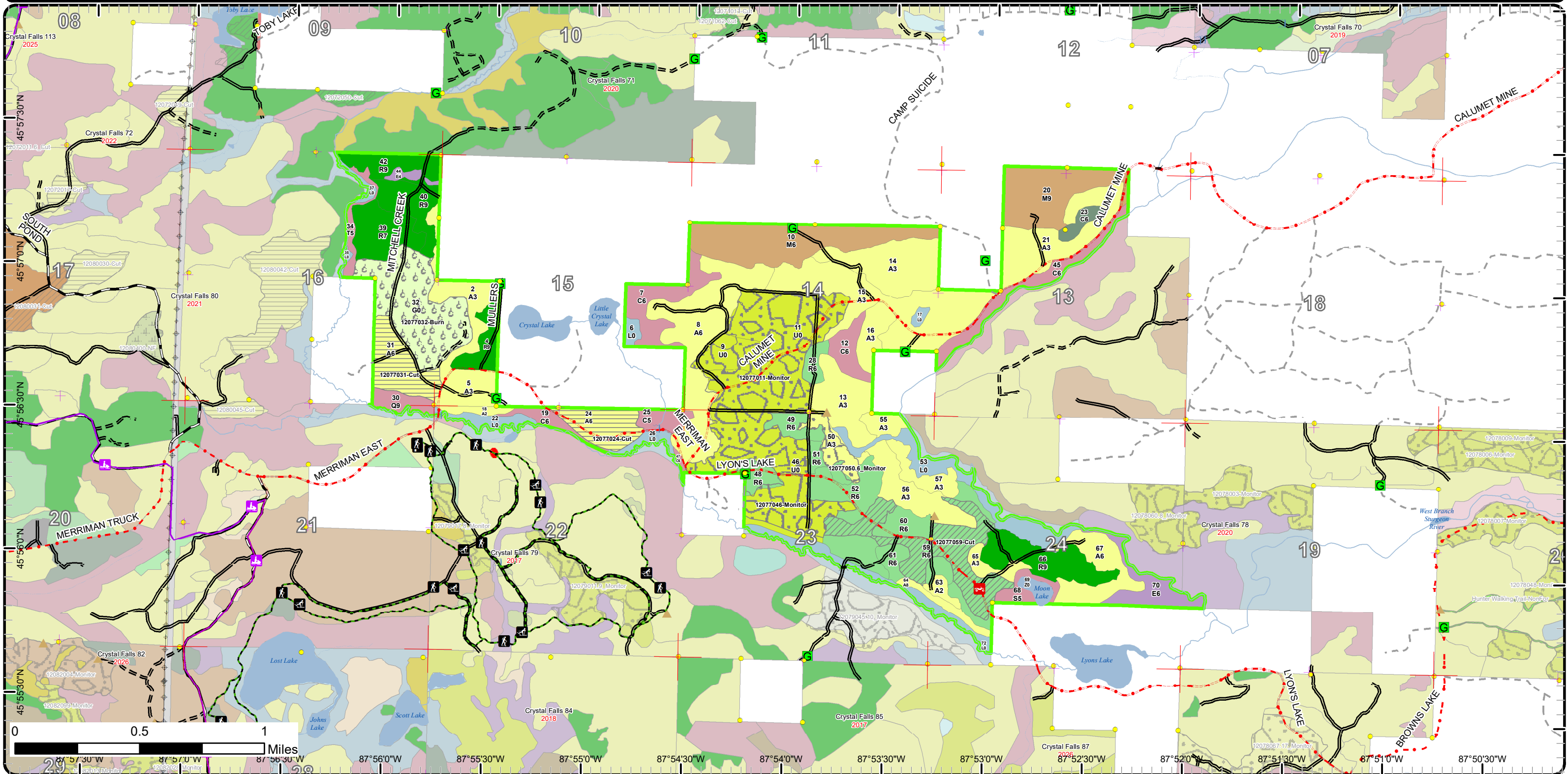
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 77  
 T41N R29W Sec. 12-16, 22-24  
 T41N, R28W, Sec. 19  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2025  
 Acres: 1551.7 GIS Calculated  
 Examiner: Rich Goupell  
 Map Revised: 8/1/2023  
 Map Phase: Review

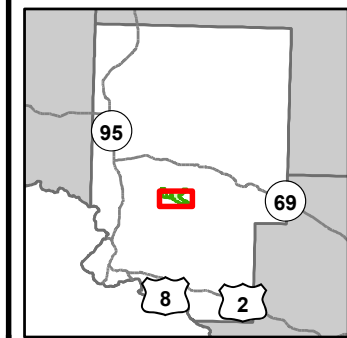


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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Forest Access Route
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- Designated Multi-Use Trails
- Designated ORV Route
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- G Gate
- Bridges
- Culvert
- P Parking Lot
- STOP Sign
- ✱ Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

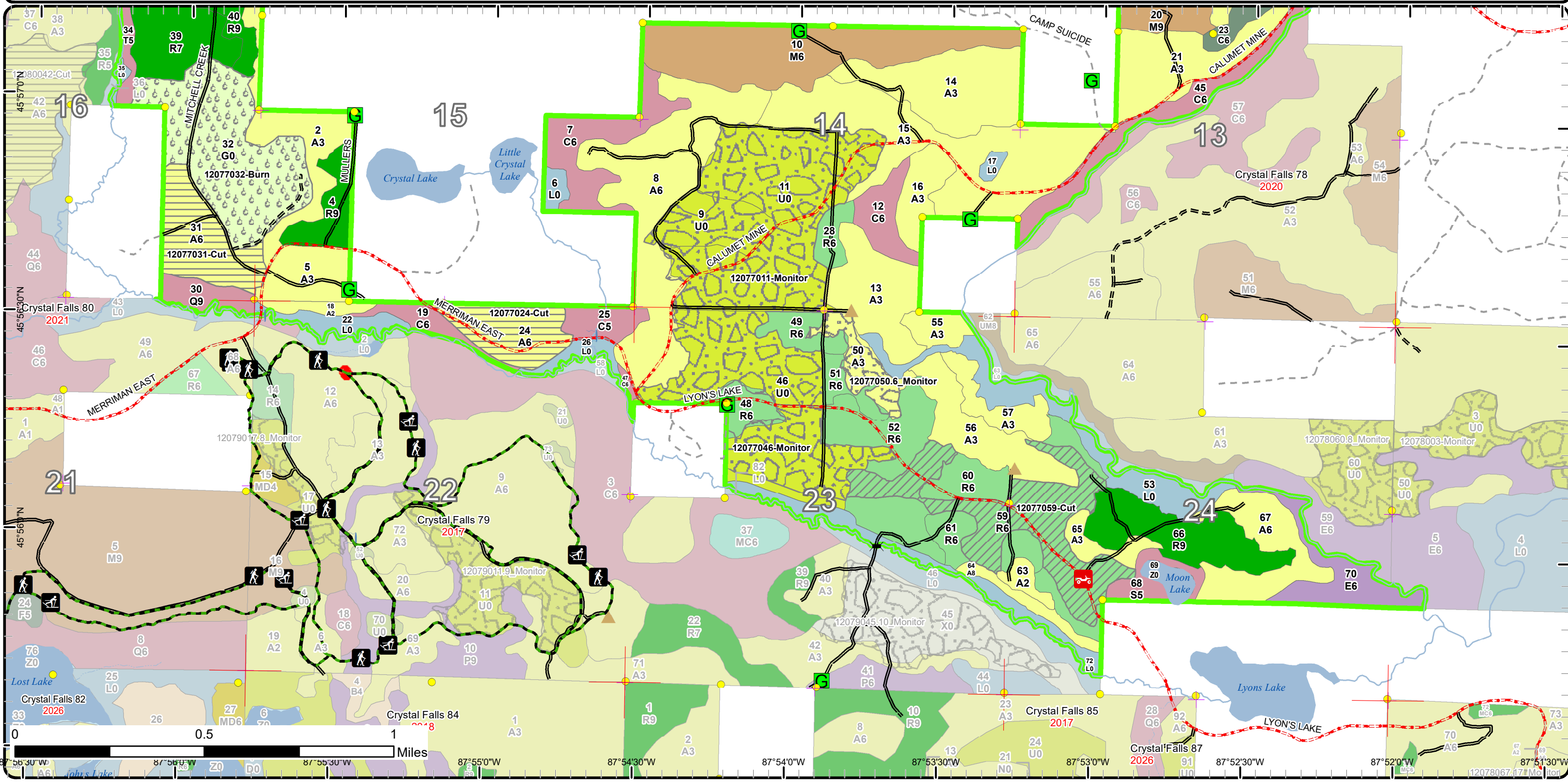


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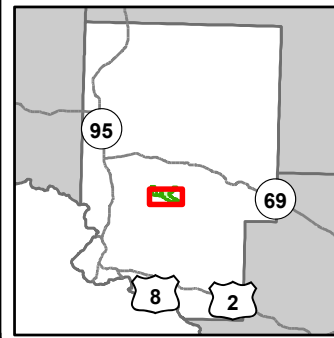
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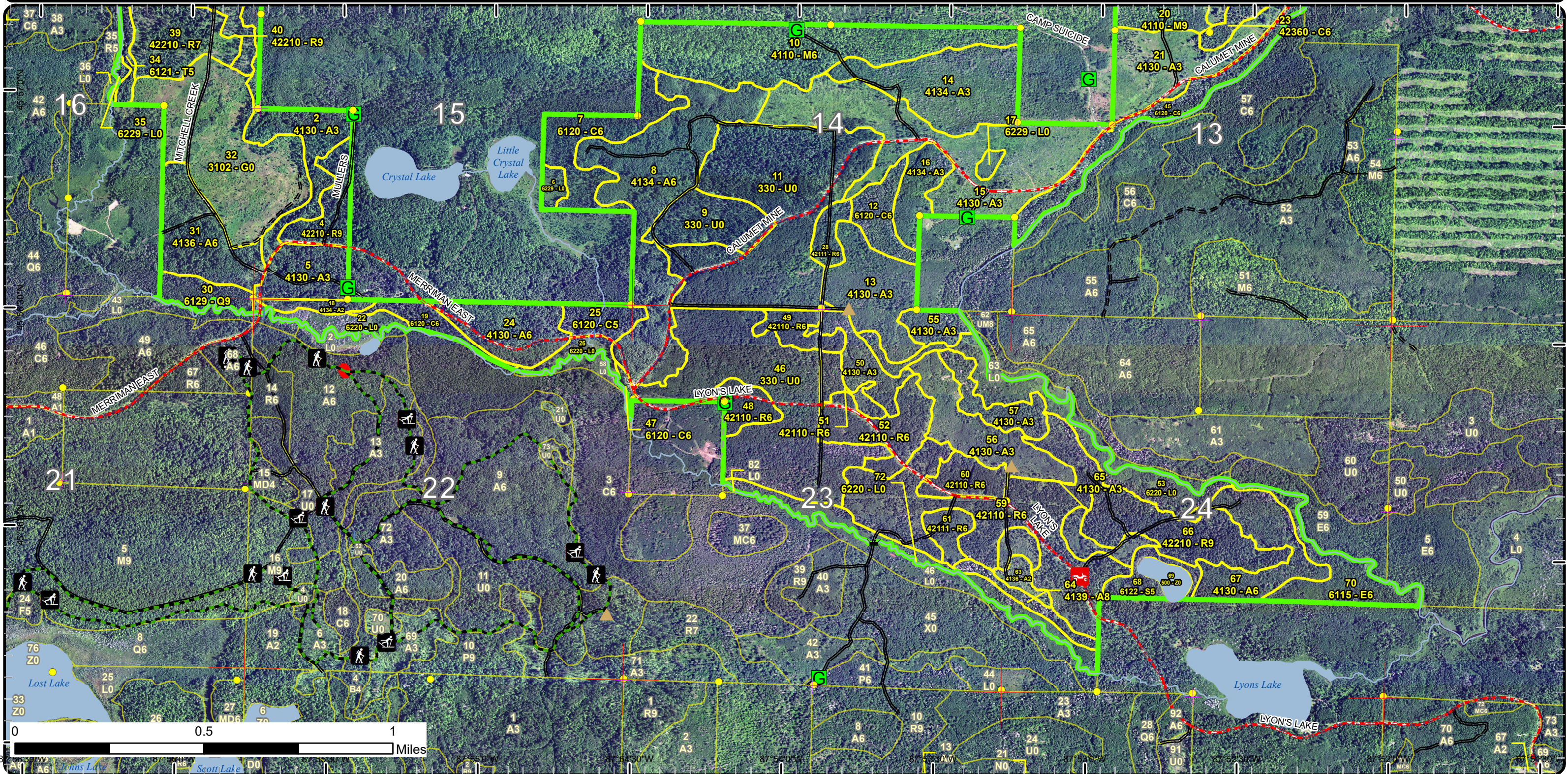
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# Stand Boundary Map

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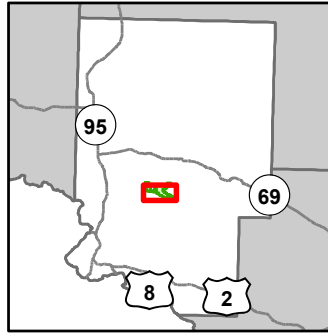


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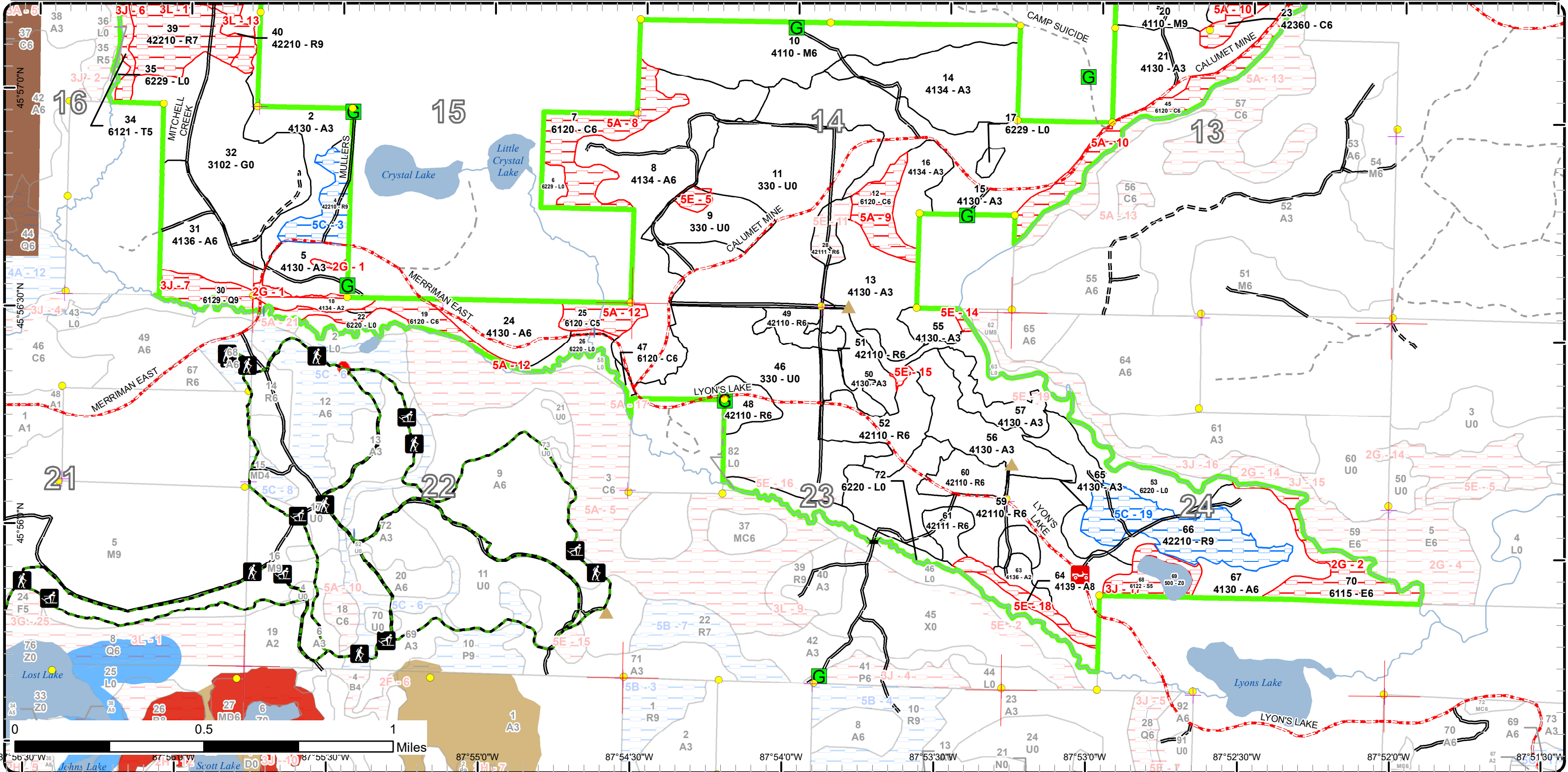


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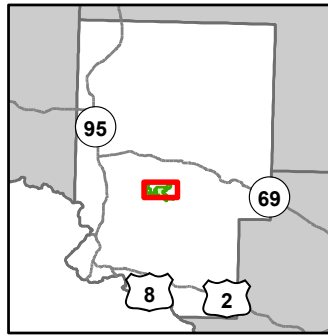


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- 🟦 High Priority Trout Stream Buffer
- 🟤 Wildlife Management Areas

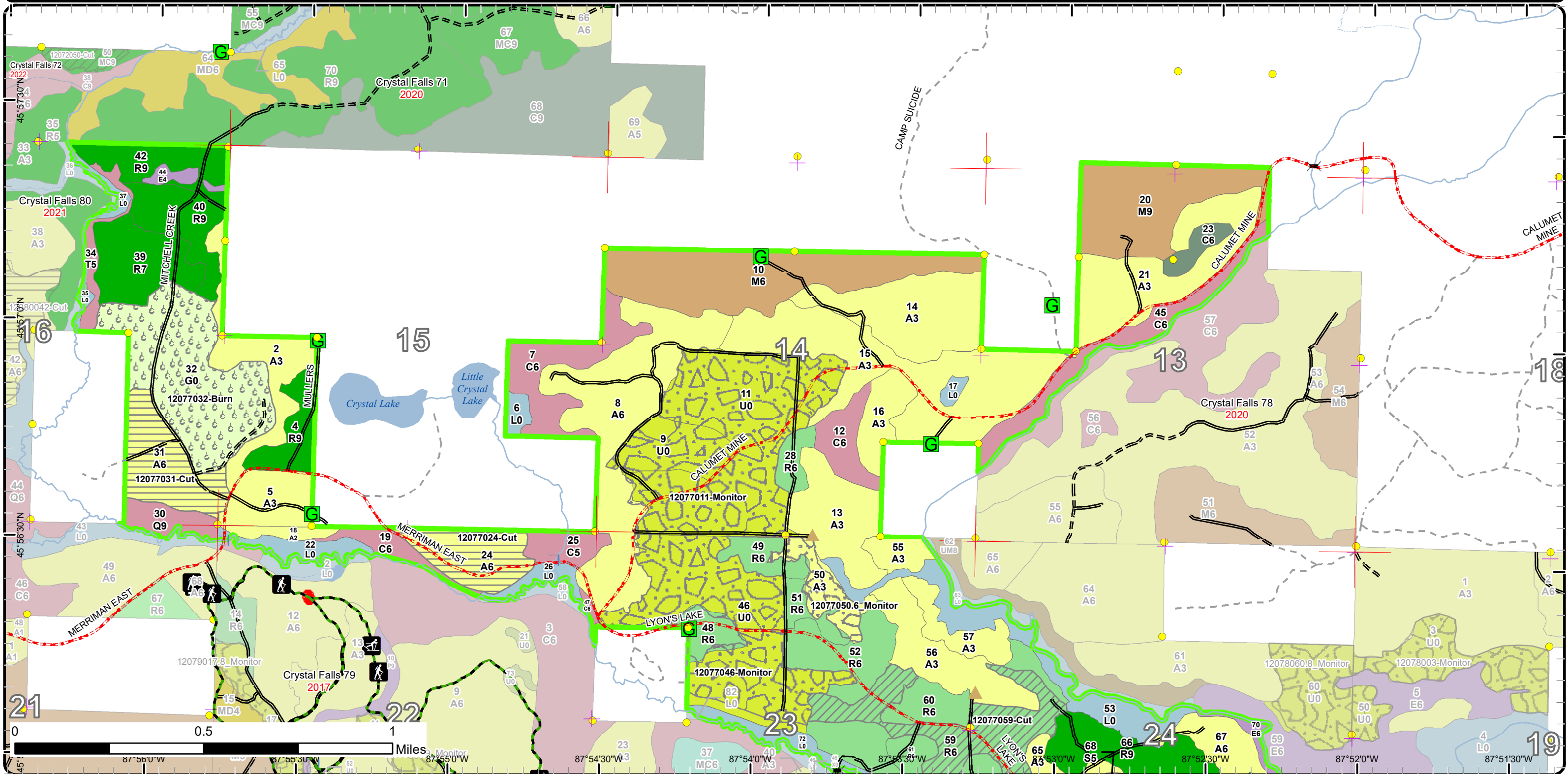


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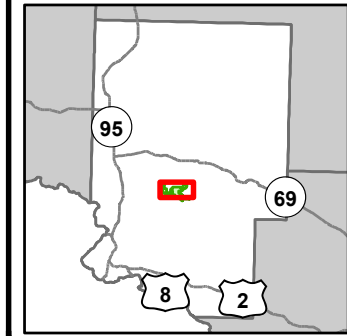
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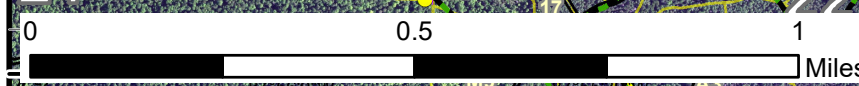
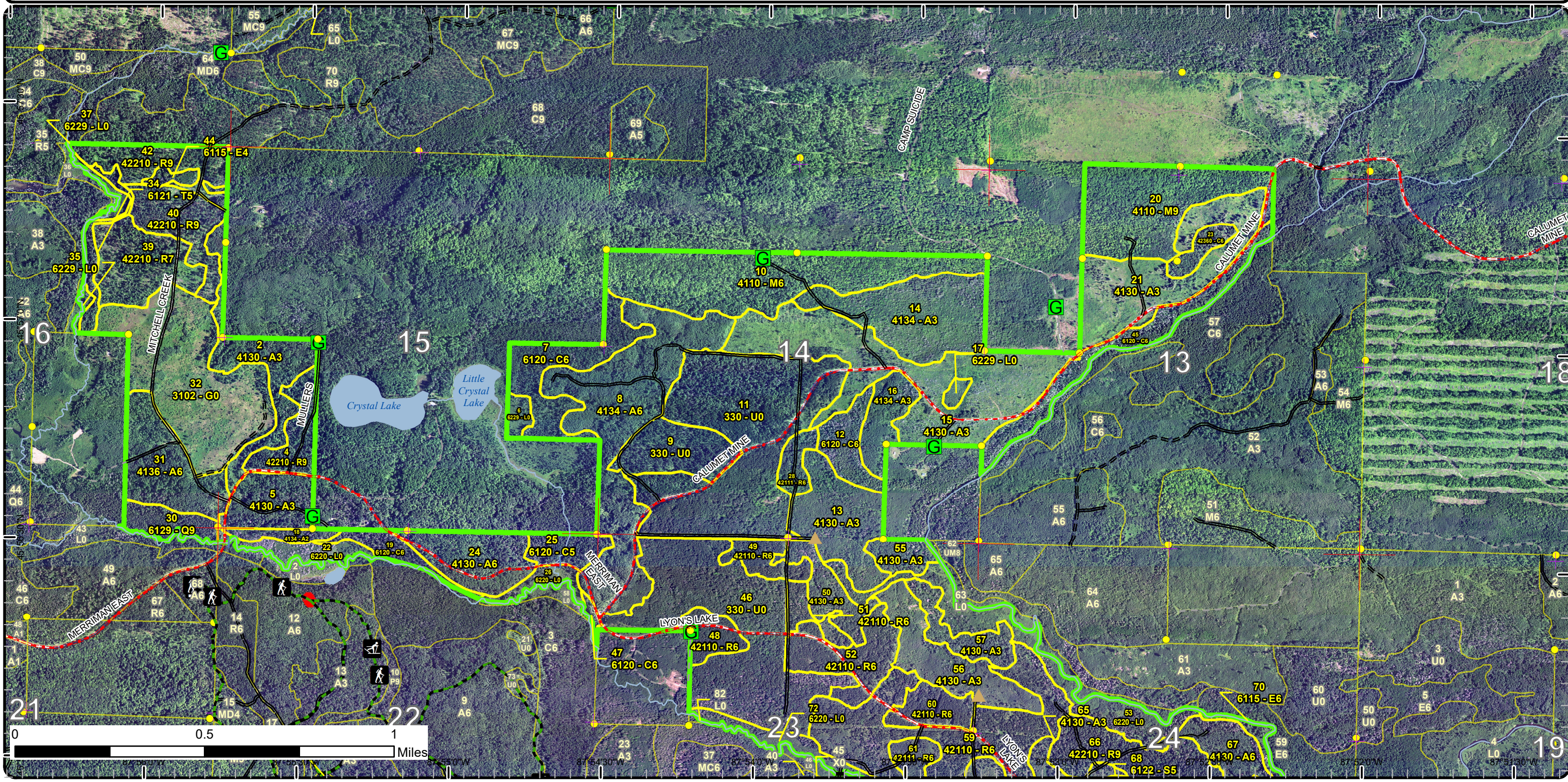
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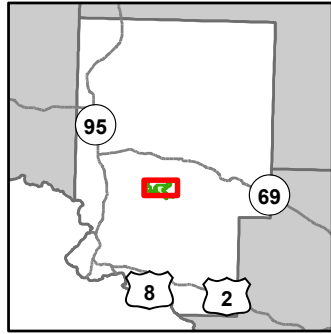
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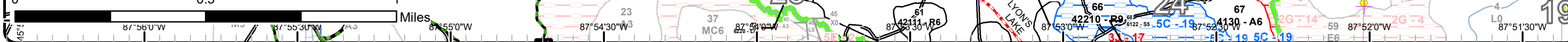
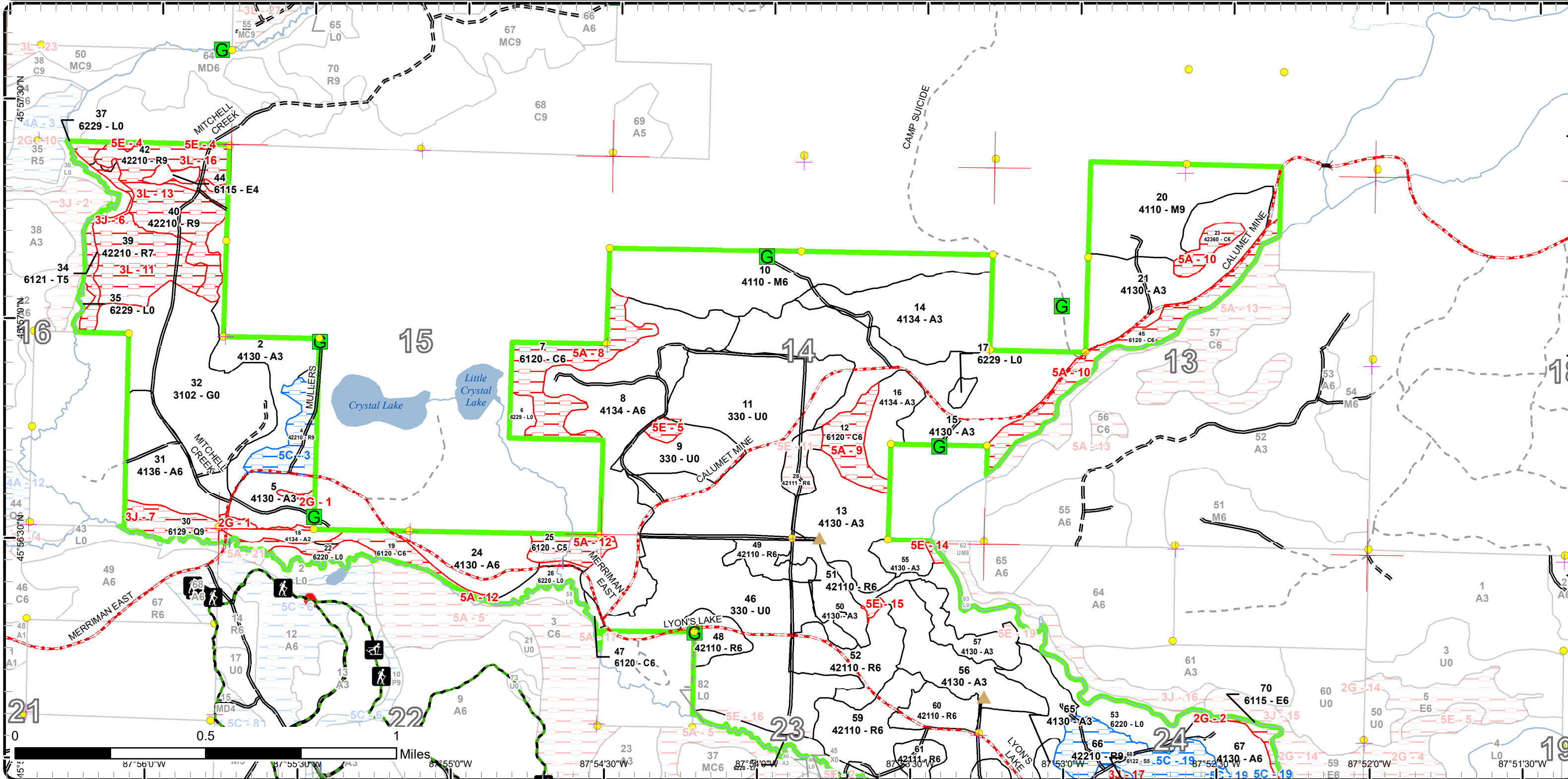


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	197	5	128	163	0	61	0	0	8	0	0	0	0	0	0	0	0	562
Cedar	0	0	0	0	0	0	0	0	0	11	63	27	0	0	0	0	0	0	101
Herbaceous Openland	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Low-Density Trees	222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	24	28
Lowland Shrub	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	0	128
Red Pine	0	0	0	0	0	0	8	174	0	46	23	38	23	0	0	0	0	0	312
Tamarack	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>392</b>	<b>197</b>	<b>5</b>	<b>128</b>	<b>163</b>	<b>0</b>	<b>69</b>	<b>174</b>	<b>0</b>	<b>215</b>	<b>97</b>	<b>65</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>1552</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 77  
Total Compartment Acres: 1,552

Commercial Harvest - 127  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshory Removal	Salvage	Other	Total Acres
Aspen	61	0	0	0	0	0	0	0	0	61
Red Pine	0	0	0	0	0	66	0	0	0	66
<b>Total</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>127</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	127	0	0	0	78	0	229	0	0	433
Next Step	0	0	38	0	0	38	275	0	0	352
<b>Total</b>	<b>127</b>	<b>0</b>	<b>38</b>	<b>0</b>	<b>78</b>	<b>38</b>	<b>504</b>	<b>0</b>	<b>0</b>	<b>785</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

**Proposed Treatments:**

<b>24</b>	<b>12077024-Cut</b>	26.8	4130 - Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest to a 2 inch spec. Leave all Pine, Oak, and Hemlock if present. Protect areas of heavy pine regeneration.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Pine  <u>Other Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>											
<b>31</b>	<b>12077031-Cut</b>	33.7	4136 - Aspen, Mixed Conifer	Poletimber Well	54		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2 inch spec leaving White and Red pine, Oak and Hemlock if present. Protect areas of heavy Pine regeneration.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable Regen:</u> Aspen, Pine, Hardwoods  <u>Other Comment:</u>  <u>Site Condition</u>                      Proposed Start Date: 10/1 /2024</p>											
<b>59</b>	<b>12077059-Cut</b>	66.3	42110 - Planted Red Pine	Poletimber Well	63	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin heavy pockets of Red Pine to 100 BA. leaving all other species.  <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>											

**Approved Treatments:**

<b>11</b>	<b>12077011-Monitor</b>	176.1	330 - Low-Density Trees	Nonstocked	2022	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u> ; ; Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable Regen:</u> red pine  <u>Other Comment:</u> Percent to Treat = 100%  <u>Site Condition</u></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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Proposed Start Date: 8 /31/2023

<b>32</b>	<b>12077032-Burn</b>	77.5	3102 - Grass	Nonstocked			Burn	Opening	3102 - Grass	No
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Prescription RX burn

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 1 /17/2023

<b>46</b>	<b>12077046-Monitor</b>	38.4	330 - Low-Density Trees	Nonstocked	2022 Unspecified		Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
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Prescription

Specs:

Next Step ; Planting, Replant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 9 /1 /2023

<b>50</b>	<b>12077050.6_Monitor</b>	14.2	4130 - Aspen	Sapling Well	3	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription

Specs:

Next Step

Treatments:

Acceptable Aspen/Spruce/Fir/Maple

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 8 /14/2021

**Total Treatment 433**  
**Acreage Proposed:**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 77

Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available	5C	2G	3J	3L	5A	5E	
562	547	0	15	Aspen		3			12	
101	3	0	98	Cedar				98	0	
78	78	0	0	Herbaceous Openland						
222	214	0	8	Low-Density Trees					8	
11	0	0	11	Lowland Conifers			11			
28	4	0	24	Lowland Deciduous		24				
86	82	0	4	Lowland Shrub				4		
10	0	0	10	Lowland Spruce/Fir			10			
128	128	0	0	Northern Hardwood						
313	175	53	84	Red Pine	53		3	73	8	
8	0	0	8	Tamarack			8			
5	5	0	0	Water						
1,552	1,236	53	262	Total Forested Acres	53	27	32	73	102	28
	80%	3%	17%	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	2G: Too wet (sensitive soils, does not include access issues)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 77

Year of Entry: 2025

3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mucho Pine retention.							
6	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	11	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	5A: Not able to obtain desirable regeneration	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

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9	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	34	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mucho Pine Timber Sale (12-027-17)							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mucho Pine Timber Sale (12-027-17) Retention.							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 77

Year of Entry: 2025

16	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer to Moon Lake and some vernal ponds on West side of stand							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> No cut buffer to Mitchell Creek.							
19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> thinned in 2020							

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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
2	4130 - Aspen	Sapling Well	29.3	37	Unspecified	N/A	Starting to reach merchantability size. Ground wet in some portions of stand. Supercanopy Pines found throughout.																																													
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4	42210 - Natural Red Pine	Sawtimber Well	16.4	85	141-170	N/A	Very diverse stand. Understory varies in densities and species. some big 18" Red and White Pine.																																													
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5	4130 - Aspen	Sapling Well	20.5	6	Immature	N/A	This stand was cut in the spring of 2017 as part of sale #020-16-01.																																													
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6	6229 - Mixed lowland shrub	Nonstocked	4.2			No																																														
7	6120 - Lowland Cedar	Poletimber Well	30.2	93		N/A	Tamarack is falling out of the stand																																													
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8	4134 - Aspen, Spruce/Fir	Poletimber Well	86.4	35		N/A	Stand starting to reach merchantability. Scattered supercanopy pines mixed throughout. Black Ash and Tamarack in wetter areas of stand.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
9	330 - Low-Density Trees	Nonstocked	23.9	2022		42110 - Planted Red Pine	Cut and trenched. About 2.5 acres of retention on the north west side of stand.																																	
10	4110 - Sugar Maple Association	Poletimber Well	73.7	89	81-110	N/A	Ash and Aspen regen on edges and in openings. Dieback evident in stand. Far Eastern portion of stand is Cedar/Fir/Spruce. Cut in 2019 under the Basswood Ridge timber sale (12-022-16) Needs update. Updated via treatment report 2021. (JS)																																	
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11	330 - Low-Density Trees	Nonstocked	106.4	2022	Unspecified	42110 - Planted Red Pine	Cut and trenched																																	
12	6120 - Lowland Cedar	Poletimber Well	14.7	99	Unspecified	N/A	More Spruce/Fir/Tamarack to North, more Cedar to South.																																	
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13	4130 - Aspen	Sapling Well	35.0	26	Immature	N/A	Scattered supercanopy of Spruce/Fir/Maple left over from last harvest.																																	
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17	6229 - Mixed lowland shrub	Nonstocked	2.3			No																																										
18	4134 - Aspen, Spruce/Fir	Sapling Medium	5.6	23	Immature	N/A	Majority of this stand is within the 300 foot stream buffer.																																									
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19	6120 - Lowland Cedar	Poletimber Well	9.3	91		N/A	Mostly Cedar with pockets of pure Tamarack and Spruce scattered within stand.																																									
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20	4110 - Sugar Maple Association	Sawtimber Well	53.8	89	81-110	N/A	Ash and Aspen present in openings. South part of the stand has alot of 1 inch Aspen regen																																									
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22	6220 - Alder/willow	Nonstocked	10.5			No																																										
23	42360 - Upland Cedar	Poletimber Well	7.0	96		N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>24</b>	4130 - Aspen	Poletimber Well	26.8	57	81-110	N/A	Most of Spruce/Fir in overstory has fallen out of stand due to budworm. This is an offsite Aspen stand. Much of the Quaking Aspen is breaking up and poor quality. The Bigtooth Aspen seems to be much healthier. Several different Aspen ages were observed. The ages and diameters are greatest on the East side of stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		2	Log/XLog	16		Red Maple		Low	Variable	Sapling	
Bigtooth Aspen		35	Pole	8		White Spruce		Low	Variable	Sapling	
Red Pine		15	Log/XLog	16	118	White Pine		Low	Variable	Sapling	
White Pine		3	Log/XLog	16		Hazelnut (Beaked)		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		45	Pole	8	58	Balsam Fir		Low	Variable	Sapling	

<b>25</b>	6120 - Lowland Cedar	Poletimber Medium	10.8	85	81-110	N/A	Tributary to Mitchell Creek runs through middle of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		10	Pole/Sapling	6		Balsam Fir		High	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6		Tamarack		Low	Variable	Sapling
Black Spruce		10	Pole	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		60	Pole	8	86					
White Spruce		10	Pole/Log	8						

<b>26</b>	6220 - Alder/willow	Nonstocked	6.8			No	OPIC - FMD: OI Stand Year Origin was
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<b>28</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	7.7	51	111-140	N/A	Retention for stand 11. Mucho Pine Timber Sale.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		5	Pole/Sapling	6		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Balsam Poplar		5	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling
White Pine		5	Log	14		White Spruce		Medium	Variable	Sapling
Red Pine		60	Pole/Log	8	51					
Quaking Aspen		25	Pole	8						

<b>30</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	11.4	91		N/A	Mitchell Creek buffer.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		10	Pole/Log	8		White Spruce		Low	10 - 20 feet	Sapling
White Spruce		30	Pole	8	92	Balsam Fir		Low	10 - 20 feet	Sapling
Northern White Cedar		40	Log/Pole	10	91					
Tamarack		20	Pole	8						

<b>31</b>	4136 - Aspen, Mixed Conifer	Poletimber Well	33.8	54		N/A	Red pine scattered thru stand and in clumps.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Pole	8	54	Balsam Fir		Medium	10 - 20 feet	Sapling
White Spruce		5	Pole	8		White Pine		Medium	5 - 10 feet	Sapling
Red Pine		10	Log/Pole	12		White Spruce		Medium	10 - 20 feet	Sapling
White Pine		5	Log/Pole	12						
Balsam Fir		5	Sapling/Pole	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
32	3102 - Grass	Nonstocked	77.6			Managed Opening	needs a burn																																			
34	6121 - Tamarack	Poletimber Medium	8.1	80	51-80	N/A	A few scattered pines.																																			
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35	6229 - Mixed lowland shrub	Nonstocked	1.5		Unspecified	No																																				
37	6229 - Mixed lowland shrub	Nonstocked	3.7			No																																				
39	42210 - Natural Red Pine	Sawtimber Poor	30.3	82	1-50	N/A	cut in 2015 under Mitchell Creek Pine sale#12-059-15. At Wildlife's request this stand is left to monitor Pine regeneration. Re-evaluate next entry.																																			
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40	42210 - Natural Red Pine	Sawtimber Well	23.4	90	141-170	N/A	Thinned in 2000. At Wildlife's request this stand is left to monitor Pine regeneration. Re-evaluate next entry.																																			
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44	6115 - Lowland Ash	Poletimber Poor	3.9	80	111-140	N/A	vernal ponded and drainage																																			
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45	6120 - Lowland Cedar	Poletimber Well	27.4	102	Unspecified	N/A	Within riparian management zone of West Branch of Sturgeon River. Most of the Spruce/fir was hit by SBW and is dead and fallen over																																																							
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46	330 - Low-Density Trees	Nonstocked	91.6	2022	Unspecified	4211 - Planted Red Pine	Cut and trenched sprayed 6/12/22																																																							
47	6120 - Lowland Cedar	Poletimber Well	1.7	92	Unspecified	N/A																																																								
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48	42110 - Planted Red Pine	Poletimber Well	10.6	62	111-140	N/A	Poor quality plantation due to improper site prep and poor spacing. Many splits, forks, and poor form. Stocking level varies greatly throughout stand.																																																							
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50	4130 - Aspen	Sapling Well	15.6	3	Immature	N/A	Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020.																																																							
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51	42110 - Planted Red Pine	Poletimber Well	7.4	62	111-140	N/A	The Aspen was removed with a harvest in 2001. The resulting plantation now has a range of stocking levels. The Pine is of poor form and quality due to inadequate site prep and spacing.																																																							
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52	42110 - Planted Red Pine	Poletimber Well	26.3	62	111-140	N/A	Poor form plantation due to improper site prep and poor spacing. Many splits, forks, and poor form. Stocking level varies greatly throughout stand. Portions of this stand had the Aspen removed in 2000. Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020. Needs Update.																																																							
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53	6220 - Alder/willow	Nonstocked	35.6	2022		No	OPIC - FMD: OI Stand Year Origin was 2000																																	
55	4130 - Aspen	Sapling Well	8.7	2	Immature	N/A	Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020.																																	
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56	4130 - Aspen	Sapling Well	31.3	22	Immature	N/A	Healthy Aspen stand. Some Pines left in overstory from last harvest. Most of this stand was part of the original Red Pine plantation.																																	
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57	4130 - Aspen	Sapling Well	14.7	4	Immature	N/A	Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020. Some scattered pines left from the cut.																																	
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59	42110 - Planted Red Pine	Poletimber Well	92.5	63	111-140	N/A	The Aspen was removed with a harvest in 2001. The resulting plantation now has a range of stocking levels. The Pine is of poor form and quality due to inadequate site prep and spacing. FRD & WLD comment from 2005: "suggest leaving RP/Aspen to mature and final harvest in 40-50 years and reestablish RP."																																	
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60	42110 - Planted Red Pine	Poletimber Well	13.0	62	81-110	N/A	Poor form plantation due to improper site prep and poor spacing. Many splits and forks. Stocking level varies greatly throughout stand. Portions of this stand has had the Aspen removed in the year 2000. Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020. Needs update.																																	
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61	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.9	63	1-50	N/A	This stand was part of the original Red Pine plantation. The Aspen was harvested in 2000. Stand will convert from planted Pine to Aspen. FRD & WLD comment from last YOY: "suggest leaving RP/Aspen to mature and final harvest in 40-50 years and reestablish RP."																																	
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63	4136 - Aspen, Mixed Conifer	Sapling Medium	5.2	15	Immature	N/A	Many species retained in overstory from last harvest. This is the reason stand is not fully stocked with Aspen saplings.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
64	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	7.8	85	51-80	N/A	Stand is within the no-cut buffer from last harvests.																																						
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65	4130 - Aspen	Sapling Well	8.8	22	Immature	N/A	Lowland pocket within stand. The Pine is in supercanopy of the Aspen sapling stand. This stand was part of the original Red Pine plantation but has converted.																																						
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66	42210 - Natural Red Pine	Sawtimber Well	38.0	103	81-110	N/A	Higher quality Pine on East side of stand. White Pine has very poor form due to weevil. Much lower stocking to West. Far Eastern side of stand has Aspen in understory. Harvested with the Mucho Pine Timber Sale (12-027-17). Sale harvested between 2018 and 2020. Needs update.																																						
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67	4130 - Aspen	Poletimber Well	32.4	34	Immature	N/A	Some small wet areas within stand. Scattered supercanopy Pines mixed throughout. Mature buffer strip containing Pine, Spruce, Fir along North side of stand bordering river.																																						
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68	6122 - Black Spruce	Poletimber Medium	9.9	87		N/A	strip of timber following edges of wetlands and Moon lake. A lot of the spruce has died.																																						
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69	500 - Water	Nonstocked	5.4			No	MOON LAKE																																						
70	6115 - Lowland Ash	Poletimber Well	24.2	84	51-80	N/A	WET. West Branch of Sturgeon runs through stand.																																						
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72	6220 - Alder/willow	Nonstocked	21.6			No	