



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12040

Entry Year 2024

Acreage: 2,335

County Dickinson

Management Area: Ralph Ground Moraine

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**Stand Examiner:** Ed Rice

**Legal Description:**

T43N, R29W, Sec. 11, 13, 14, 15, 22, 23, 24

**Identified Planning Goals:**

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Continue managing red pine on a 10 year cycle. Protect the riparian areas and transition zones during management activity.

**Soil and topography:**

Land is nearly level to hilly with a mix of Pemene and Emmet soils that are well-drained loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops. Some narrow depressions contain Cathro soils that are poorly drained black muck.

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

Ownership patterns in and around this compartment consist mostly of State lands with a few private parcels and camps. These lands are managed for forest products.

**Unique Natural Features:**

None

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

None

**Special Management Designations or Considerations:**

Much of the compartment holds wintering deer, notably nearer to the lowland forested stands.

**Watershed and Fisheries Considerations:**

The northern and western region of this compartment borders the Ford River. An unnamed stream that serves as a tributary to the Ford River is in the east-central region of this compartment and flows easterly to the Ford River.

The Ford River and the unnamed stream are designated Type 1 trout streams less than 50' in width. 300' buffers are recommended for the Ford River and the unnamed stream riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

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

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Cambrian Munising Group, Precambrian Archean granite/gneiss and the Michigamme Formation subcrop below the glacial drift. There is not an economic use for these rocks. The decommissioned Groveland Iron mine is located approximately eight miles to the southwest. The compartment was previously leased for metallic exploration and Section 13 & 14 are currently leased. A gravel pit is located two miles to the west and there appears to be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vehicle access is from Pirlot Road and associated trail roads.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

None

**Fire Protection:**

Much of the compartment is northern hardwoods and aspen so there is little potential any wildfire would escape initial attack. Good equipment access throughout by roads. There are several camps adjacent to the state land.

**Additional Compartment Information:**

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

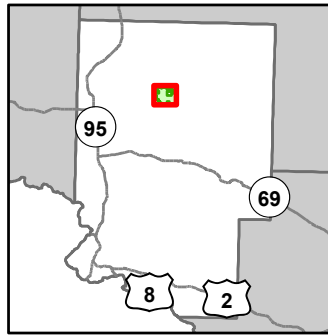
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

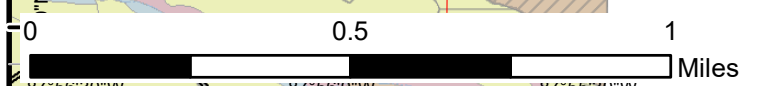
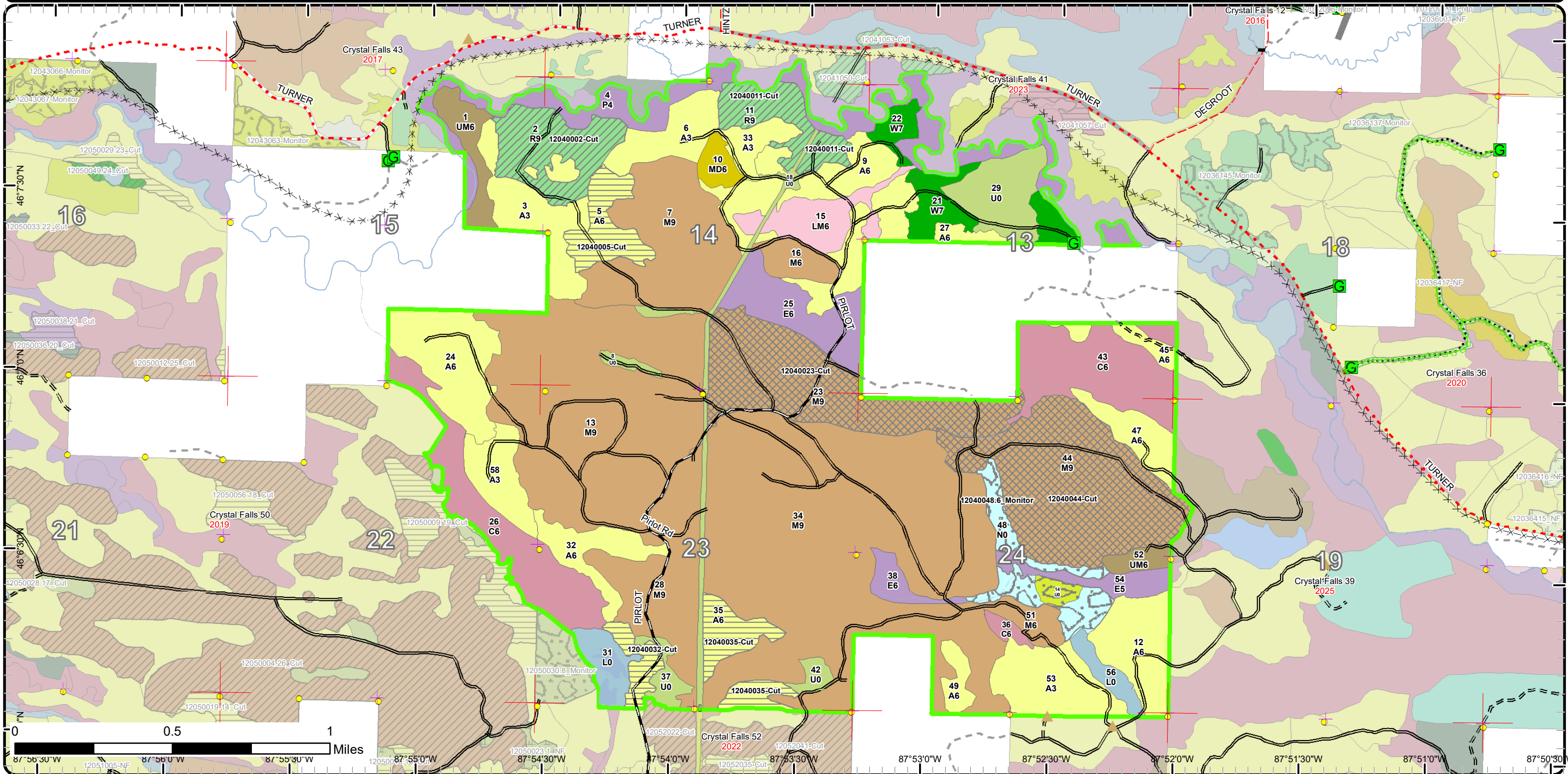
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 40  
 T43N, R29W, Sec. 11-15, 22-24  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2024  
 Acres: 2334.9 GIS Calculated  
 Examiner: Ed Rice  
 Map Revised: 11/18/2022  
 Map Phase: Post-Review



- |                                 |                                     |                                   |
|---------------------------------|-------------------------------------|-----------------------------------|
| — Miris Corners                 | — Lake/Pond                         | ■ 611 - Lowland Deciduous Forest  |
| — Remonumented Section Corners  | — Perennial River                   | ■ 612 - Lowland Coniferous Forest |
| ● Survey Grade Corners          | — Lakes and Rivers                  | ■ 613 - Lowland Mixed Forest      |
| — Counties                      | — Pipeline                          | ■ 320 - Upland Shrub              |
| — DNR - Primary Forest Road     | — Compartment Boundary              | ■ 330 - Low Density Trees         |
| — DNR - Secondary Forest Road   | — Selection (Group, Single Tree)    | ■ 622 - Lowland Shrub             |
| — DNR - Forest Access Route     | — Clearcut (w/Reserves)             | ■ 623 - Emergent Wetland          |
| — County - Gravel Road          | — Thinning (Crown, Low, Systematic) |                                   |
| — County - Dirt Road (Seasonal) | — Regeneration Survey               |                                   |
| — Private - Dirt / Gravel Road  | ■ 411 - Northern Hardwood           |                                   |
| ✖ Abandoned Railroads           | ■ 413 - Aspen                       |                                   |
| ▲ Berms                         | ■ 419 - Mixed Upland Deciduous      |                                   |
| ■ Gate                          | ■ 421 - Planted Pines               |                                   |
| — Intermittent Stream           | ■ 422 - Natural Pines               |                                   |
|                                 | ■ 430 - Upland Mixed Forest         |                                   |

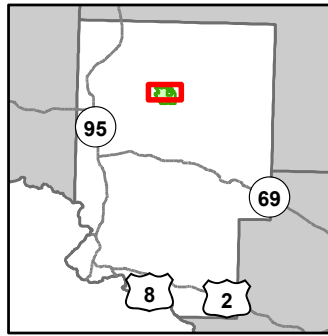


87°56'30"W 12051005-NF 87°56'0"W 87°55'30"W 1205000 87°55'0"W 12052022-Cut 12052035-Cut 87°53'30"W 87°53'0"W 87°52'30"W 87°52'0"W 87°51'30"W 87°51'0"W

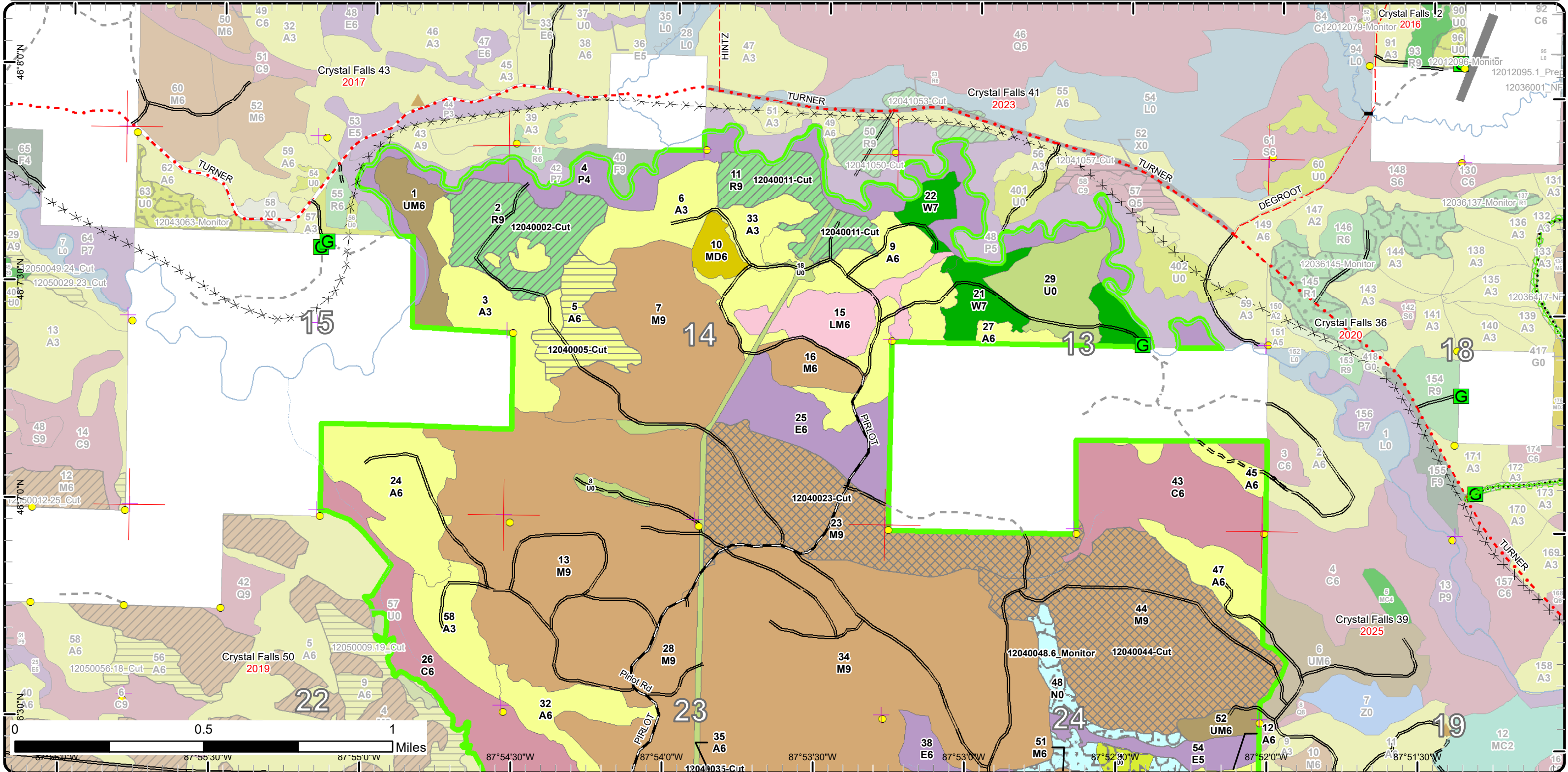


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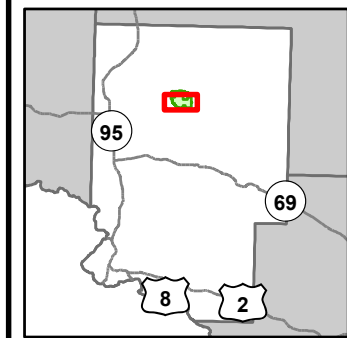
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- ▲ Berms
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- 623 - Emergent Wetland



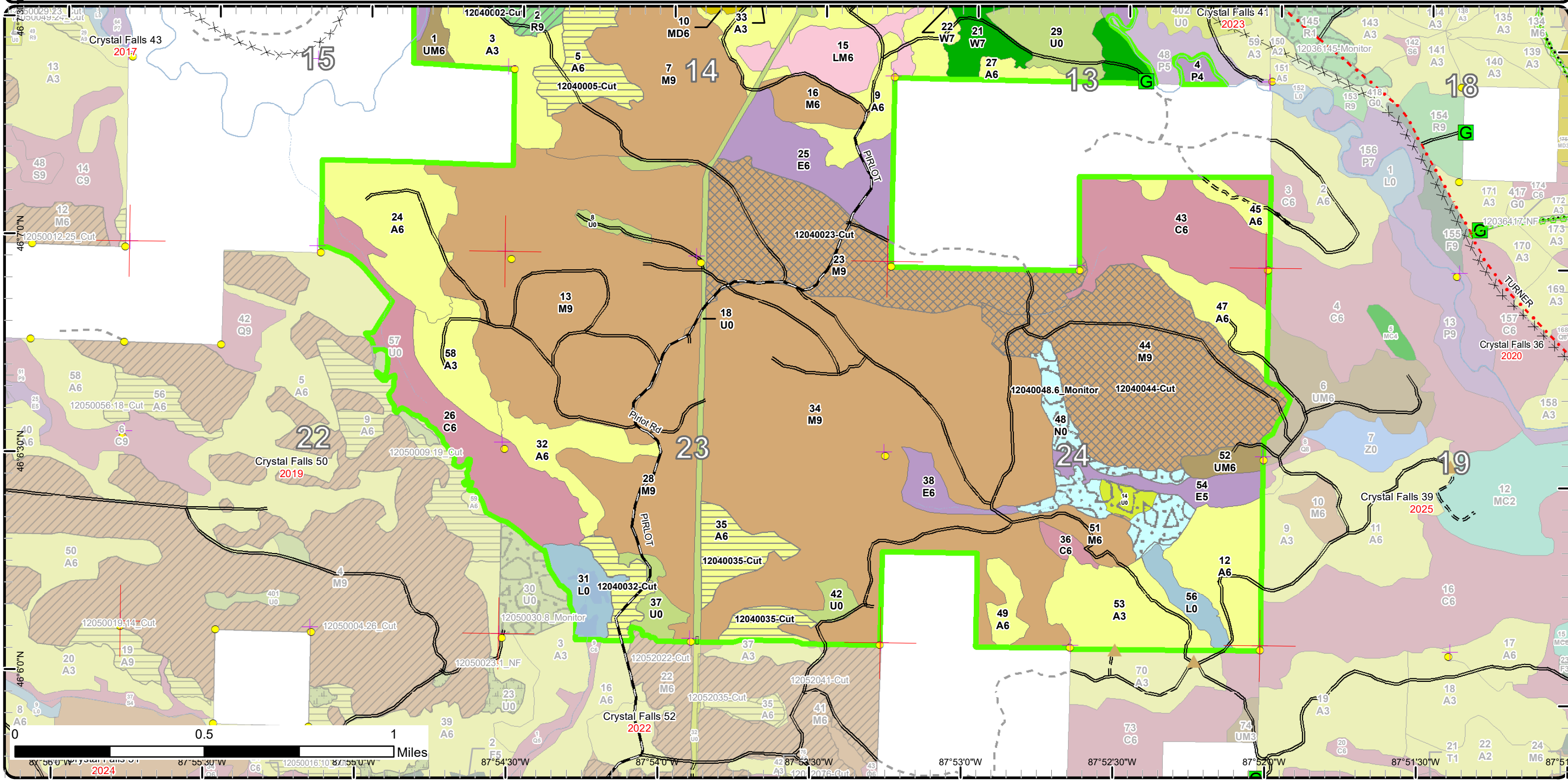


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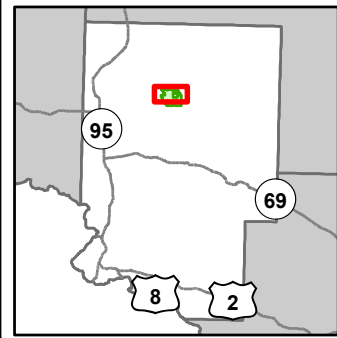
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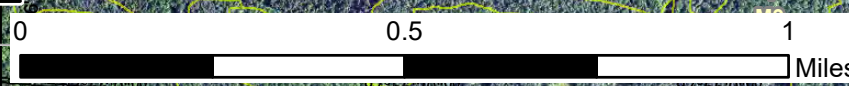
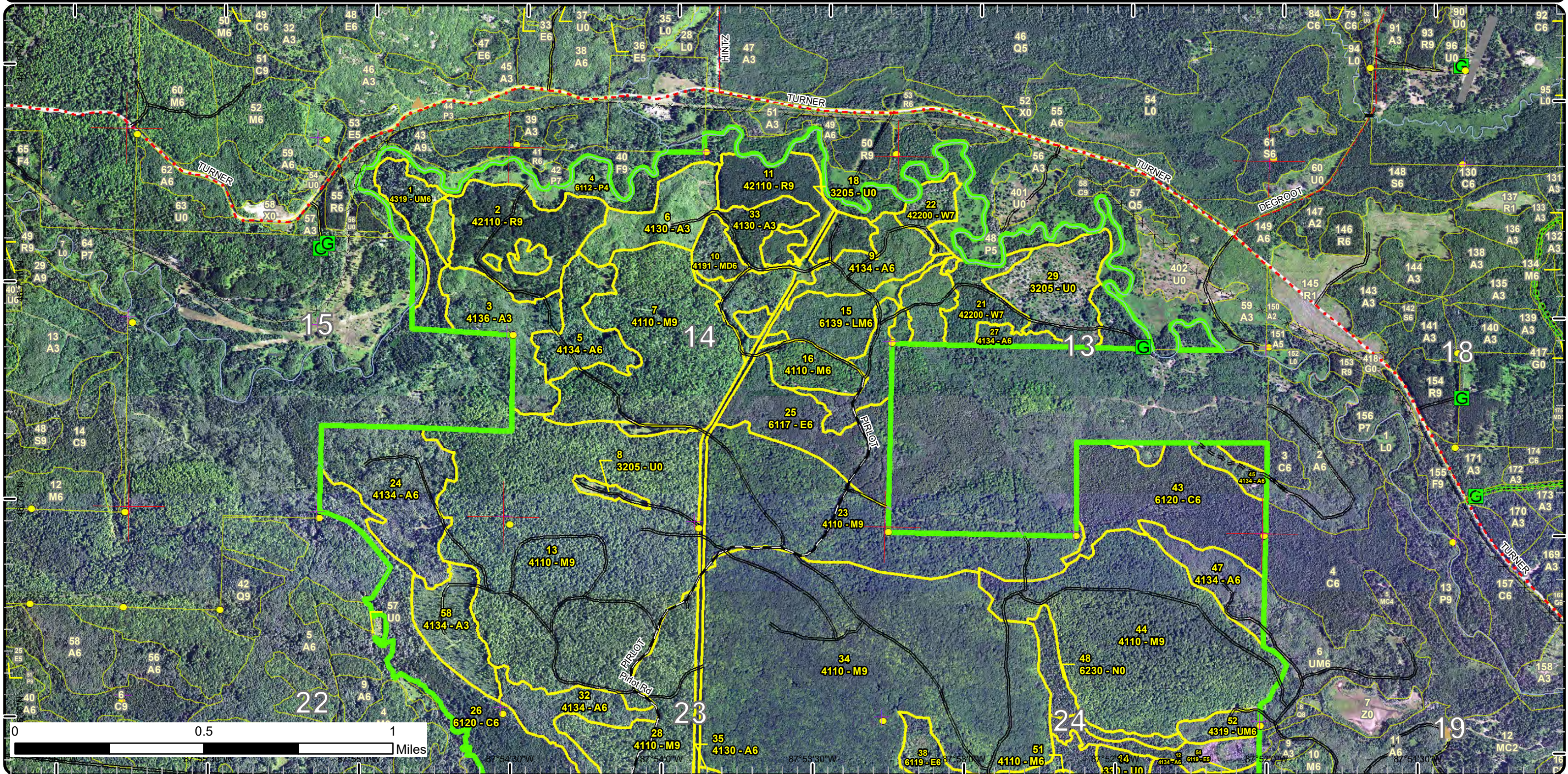


# Stand Boundary Map

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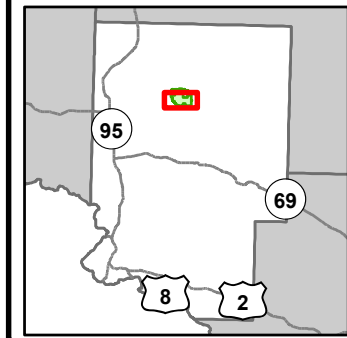


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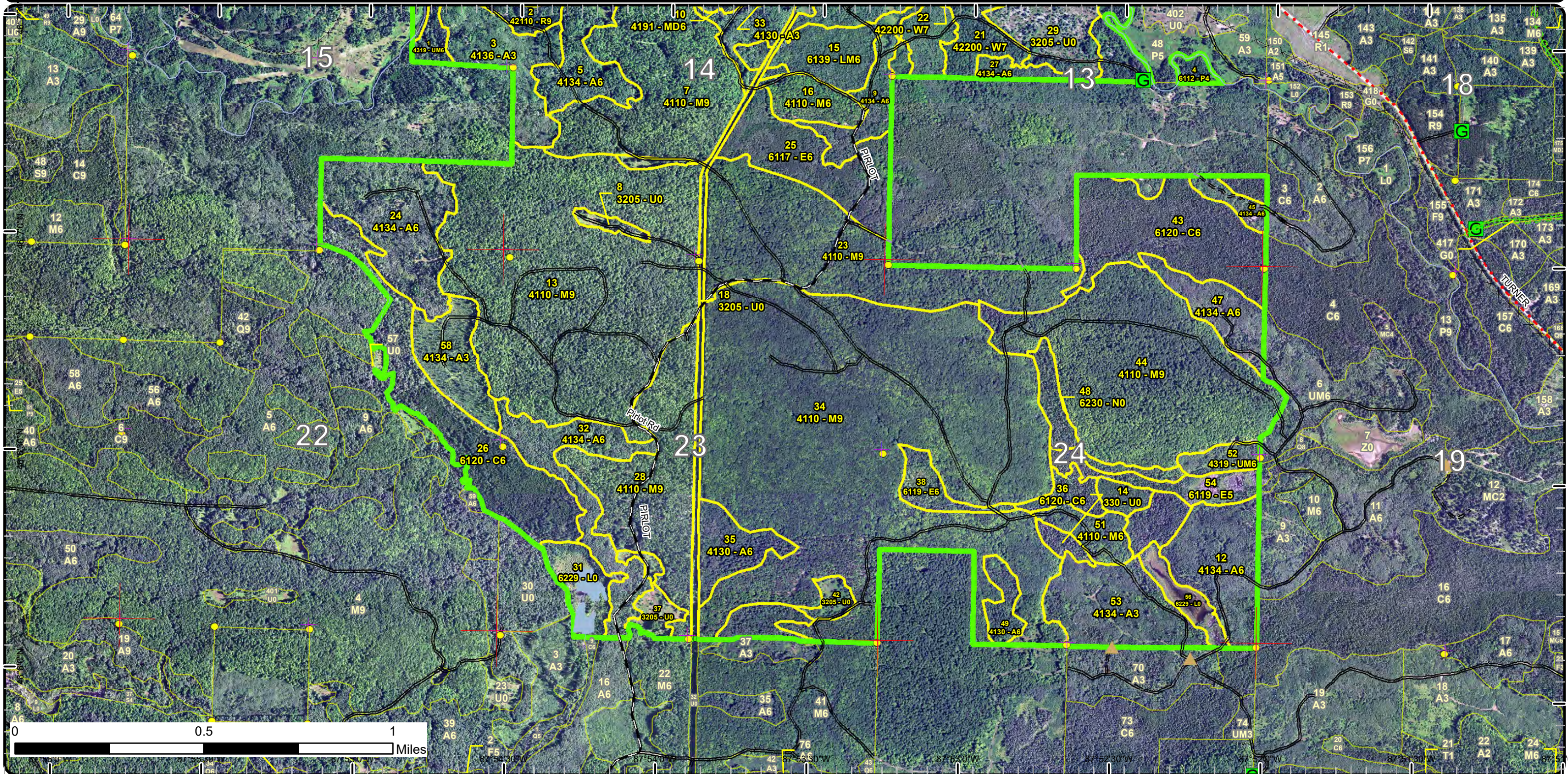


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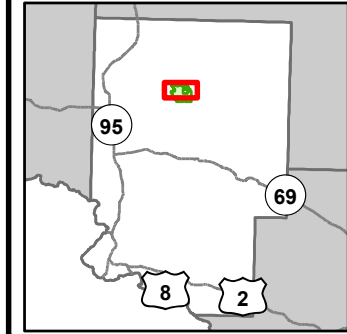
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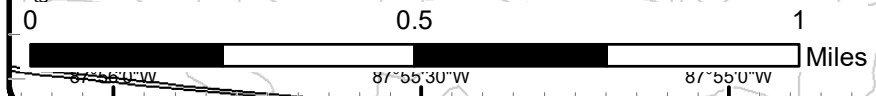
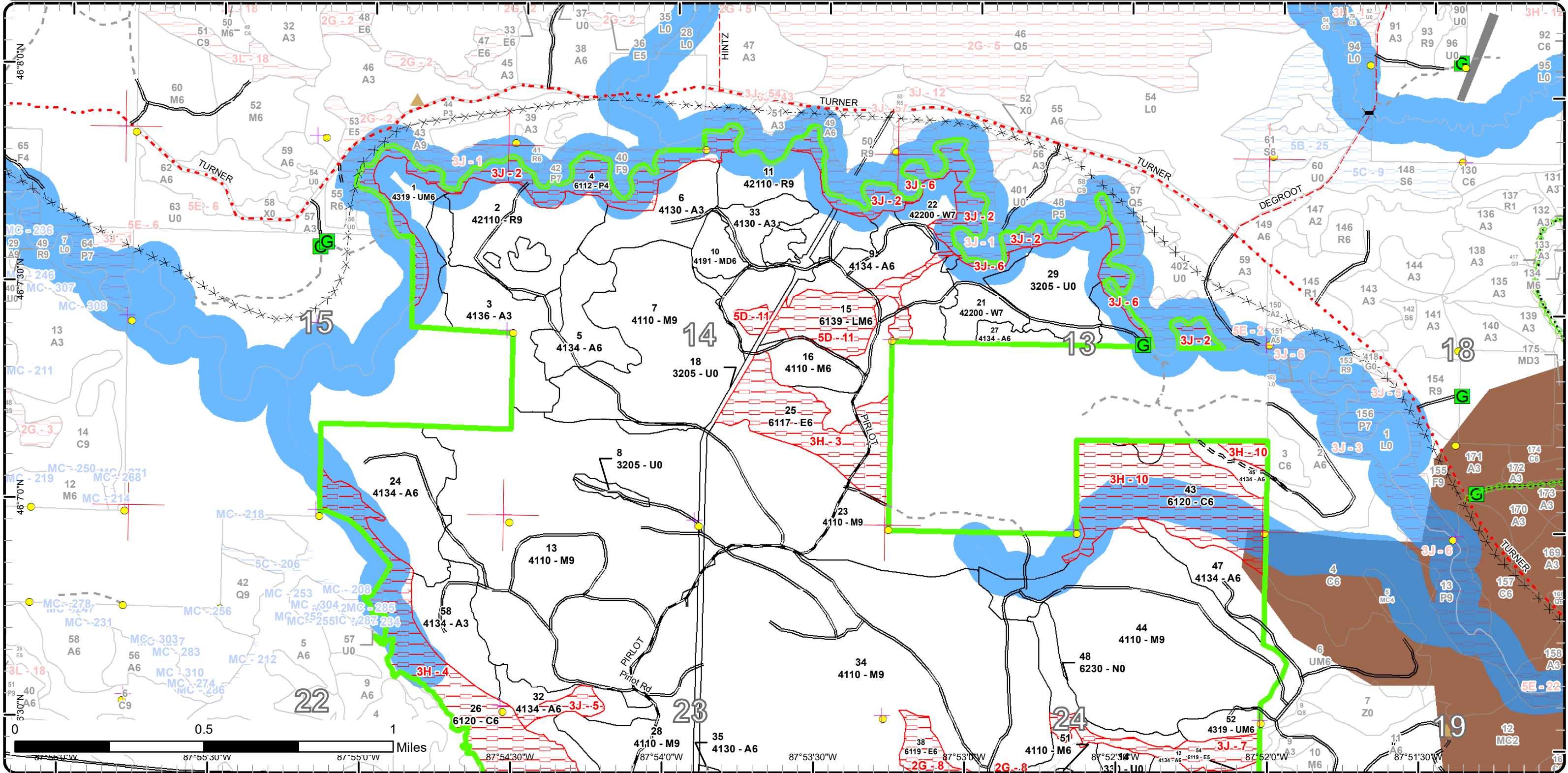


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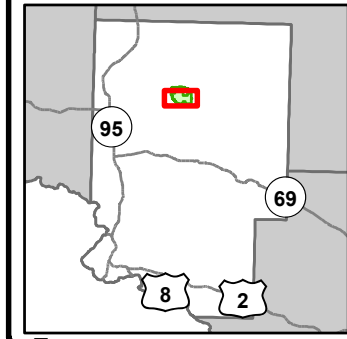
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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



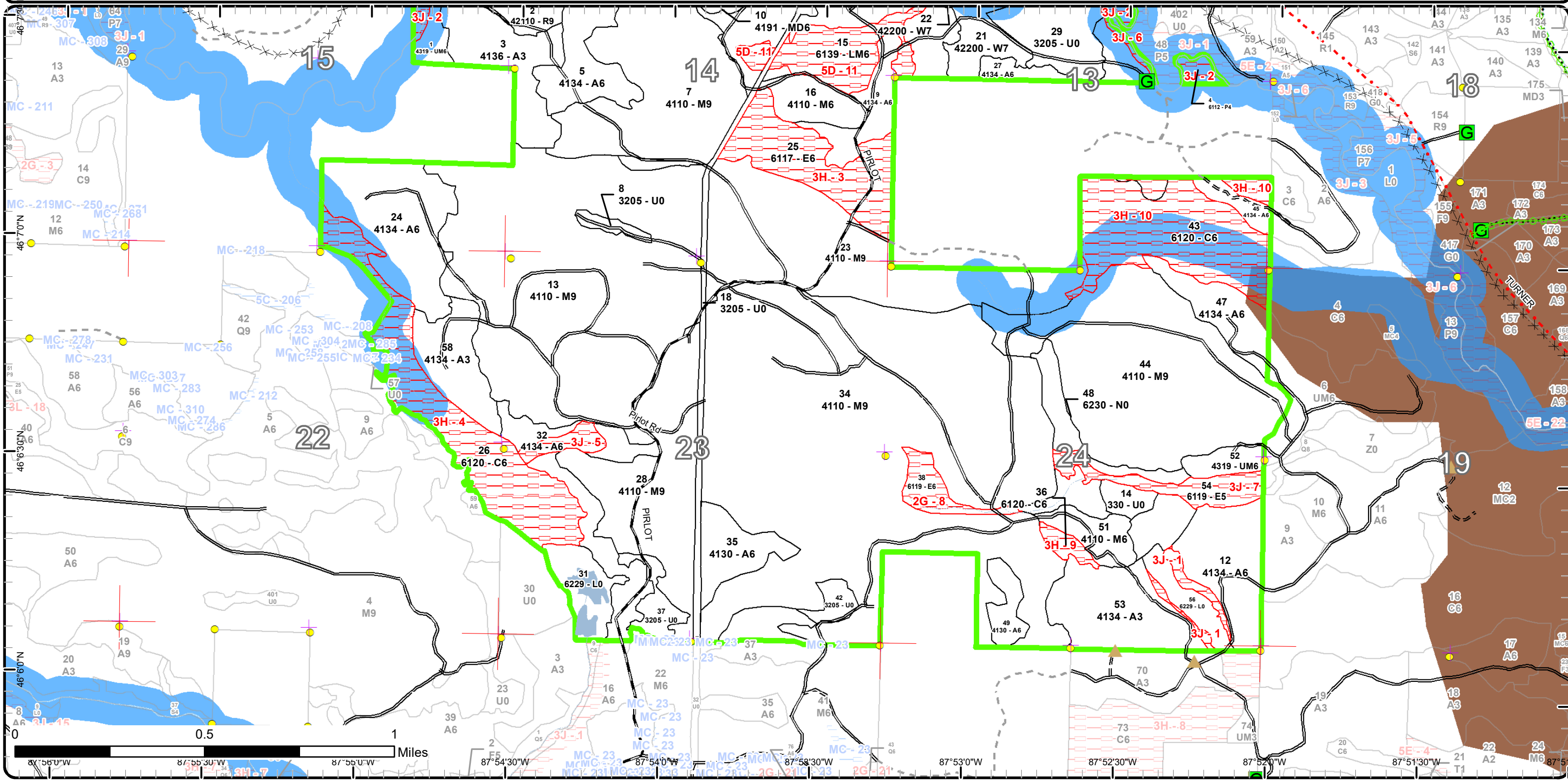


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	15	59	94	142	159	32	0	0	0	0	0	0	0	0	0	0	0	501
Cedar	0	0	0	0	0	0	0	0	0	0	153	0	0	0	0	0	0	0	153
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	85	0	0	0	0	0	0	0	0	0	0	0	85
Lowland Deciduous	0	0	0	0	0	59	18	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Mixed Forest	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Marsh	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	116	251	420	0	0	0	0	0	0	0	375	1162
Red Pine	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0	0	0	0	86
Upland Mixed Forest	0	0	0	0	9	0	22	0	0	0	0	0	0	0	0	0	0	0	31
Upland Shrub	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
White Pine	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	42
<b>Total</b>	<b>156</b>	<b>15</b>	<b>59</b>	<b>94</b>	<b>195</b>	<b>218</b>	<b>243</b>	<b>116</b>	<b>293</b>	<b>420</b>	<b>153</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>375</b>	<b>2335</b>





## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 40  
Total Compartment Acres: 2,335

Commercial Harvest - 433  
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	75	0	0	0	0	0	0	0	0	75
Northern Hardwood	0	273	0	0	0	0	0	0	0	273
Red Pine	0	0	0	0	0	86	0	0	0	86
<b>Total</b>	<b>75</b>	<b>273</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>433</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	433	0	0	0	0	0	42	0	0	475
Next Step	0	0	0	0	0	0	347	0	0	347
<b>Total</b>	<b>433</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>390</b>	<b>0</b>	<b>0</b>	<b>823</b>





Stand	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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**Approved Treatments:**

2	12040002-Cut	50.4	42110 - Planted Red Pine	Sawtimber Well	57	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin to 110-120 BA or remove no more than 1/3 BA whichever occurs first. in areas that have higher stocking and have not been thinned previously, create 12 foot wide skidder trails, spaced evenly. mark to remove spruce 10" stump diameter (3 sticks +) and larger. protect understory spruce/fir as much as possible - keep conifers in understory. do not remove w pine except as absolutely necessary for equipment access - this should be very minimal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> r pine, w pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
5	12040005-Cut	28.9	4134 - Aspen, Spruce/Fir	Poletimber Well	47	Unspecified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, maple, cherry, and w birch (1 stick and larger). remove spruce/fir 7" stump diameter (2 stick and larger). leave one w birch, h maple, b cherry per cruise plot where available. do not cut elm, w pine, or r pine</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, r maple, spruce, fir</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
11	12040011-Cut	35.5	42110 - Planted Red Pine	Sawtimber Well	57	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin to 110 BA or remove no more than 1/3 BA whichever occurs first. in areas that have higher stocking and have not been thinned previously, create 12 foot wide skidder trails, spaced evenly. mark to remove spruce 10" stump diameter (3 sticks +) and larger. protect understory spruce/fir as much as possible - keep conifers in understory. do not cut w pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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<b>23</b>	<b>12040023-Cut</b>	118.9	4110 - Sugar Maple Association	Sawtimber Well	72	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription thin to 70 BA. remove in order of priority: high risk trees that will not survive or decrease in value to the next cutting cycle (approx 20 yrs)  
Specs: financially mature trees, and if needed, spacing. try to capture the value of basswood logs/veneer but do not concentrate removals entirely on basswood. keep at least one super canopy maple per acre for seed source. do not cut y birch or any minor species. protect/buffer any vernal areas found. buffer drainage flowing east 100 feet. protect as much as possible any advanced h maple regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable N hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>32</b>	<b>12040032-Cut</b>	14.0	4134 - Aspen, Spruce/Fir	Poletimber Well	45	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription remove merchantable aspen, w birch, cherry, and maple (1 stick and larger). remove spruce/fir 7" (2 stick +) stump diameter and larger.  
Specs: leave one maple, w birch, cherry per cruise point where available. do not cut b ash, pine, or y birch.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mix hardwood, mix conifer

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>35</b>	<b>12040035-Cut</b>	31.6	4130 - Aspen	Poletimber Well	55	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription remove merchantable aspen, maple, cherry, and w birch (1 stick and larger). cut spruce 10" stump diameter and larger. leave 1 cherry per cruise plot where available. protect advanced maple regeneration as much as possible, do not cut any associated y birch, elm, or w pine

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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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>44 12040044-Cut</b>	154.0	4110 - Sugar Maple Association	Sawtimber Well	75	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 70 BA. remove in order of priority: high risk trees that will not survive or decrease in value to the next cutting cycle (approx 20 yrs)</p> <p><u>Specs:</u> financially mature trees, and if needed, spacing. try to capture the value of basswood logs/veneer but do not concentrate removals entirely on basswood. keep at least one super canopy maple per acre for seed source. do not cut y birch or any minor species. protect/buffer any vernal areas found. buffer 100 feet drainage flowing east protect as much as possible any advanced h maple regeneration.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>48 12040048.6_M onitor</b>	42.1	6230 - Cattail	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> monitor for regen. as of inventory 2022, no regen apparent</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> b spruce, cedar</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> 8 /17/2017</p>										

**Total Treatment** 475.4  
**Acreage Proposed:**



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 40

Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2G	3H	3J	5D
		With Condition	Not Available					
501	486	0	16	Aspen		3	13	
153	0	0	153	Cedar		153		
7	7	0	0	Low-Density Trees				
85	0	0	85	Lowland Aspen/Balsam Poplar			85	
77	0	0	77	Lowland Deciduous	12	47	18	
33	0	0	33	Lowland Mixed Forest				33
31	31	0	0	Lowland Shrub			0	
36	36	0	0	Marsh				
10	10	0	0	Mixed Upland Deciduous				
1162	1162	0	0	Northern Hardwood				
86	86	0	0	Red Pine				
31	31	0	0	Upland Mixed Forest				
82	82	0	0	Upland Shrub				
42	38	0	3	White Pine			3	
2,335	1,969		366	Total Forested Acres	12	202	119	33
	84%		16%	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)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	85	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 40

Year of Entry: 2024

3	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cedar areas within stand holds heavy winter deer use							
4	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	73	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer to small intermittent stream with bed and bank							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> head of intermittent creek							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 40

Year of Entry: 2024

9	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	78	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> field observed: heavily used by wintering deer							
11	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	4319 - Mixed Upland Forest	Poletimber Well	21.9	57	51-80	N/A	Wildlife BMP buffer to river																																															
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2	42110 - Planted Red Pine	Sawtimber Well	50.4	57	111-140	N/A	not very distinct rows. areas of the stand are patchy with interspersed A3. Stand average 140 BA.																																															
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3	4136 - Aspen, Mixed Conifer	Sapling Well	47.2	25	Unspecified	N/A	areas heavier stocked to w pine, 10-20 BA on average throughout the stand. very scattered 4-5" Aspen																																															
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4	6112 - Lowland Aspen	Poletimber Poor	84.6	50	1-50	N/A	Ford River floodplain. semi open - groves of balm, g ash, willow and associated tree species intermixed with open grass areas.																																															
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5	4134 - Aspen, Spruce/Fir	Poletimber Well	28.9	47	Unspecified	N/A	scattered component of 11-12" aspen. pockets of highly stocked fir saplings. Several small opening within stand. Scattered clumps of older sugar maple.																																															
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7	4110 - Sugar Maple Association	Sawtimber Well	101.1	65	81-110	N/A	highly stocked ironwood saplings. stand is 80 BA average. hill on north side of stand.																																																		
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13	4110 - Sugar Maple Association	Sawtimber Well	256.3	72	81-110	N/A	component of 16-18" h maple. highly stocked ironwood saplings. average stand 80 BA																																														
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14	330 - Low-Density Trees	Nonstocked	6.5	0	Unspecified	4199 - Other Mixed Upland Deciduous	upland knob. previously was mixed stand with majority w birch. after cut 2018, no regeneration present. very small island of aspen regen in NW																																														
15	6139 - Mixed Lowland Forest	Poletimber Well	32.8	37	Unspecified	N/A	semi low ground - unproductive, high water table																																														
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16	4110 - Sugar Maple Association	Poletimber Well	17.0	72	51-80	N/A	component of h maple 14-16" dbh. average stand 70BA																																														
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18	3205 - Mixed Upland Shrub	Nonstocked	20.0		Unspecified	No	Old Elf line. semi open. areas growing into aspen and balm clones. low areas interspersed along the length of the stand - tag alder, willow. spruce fir prevalent.																																														
21	42200 - Natural White Pine	Sawtimber Poor	29.7	75	1-50	N/A	aspen and associated species removed from pine stand in 2017. w pine with r pine component, aspen saplings regenerating.																																														
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<b>23</b>	4110 - Sugar Maple Association	Sawtimber Well	118.9	72	111-140	N/A	component of h maple and basswood 18-24" dbh. scattered h maple saplings 5-10' tall. average stand 120 BA																																																									
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<b>24</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	58.8	35	Unspecified	N/A	much of stand is heavily stocked to fir . very scattered w birch																																																									
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<b>25</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	46.6	42	Unspecified	N/A	SW of stand has heavier spruce fir. E half holds most of the cedar. used by wintering deer 3/322																																																									
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<b>26</b>	6120 - Lowland Cedar	Poletimber Well	72.6	92	141-170	N/A	high ground inclusion in N end with aspen, maple, w birch. majority of stand is highly stocked cedar. heavy winter deer use																																																									
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29	3205 - Mixed Upland Shrub	Nonstocked	38.4		Unspecified	No	areas semi open open grown w pine - very limby. . open grown b cherry and w spruce. tree form very poor																																					
31	6229 - Mixed lowland shrub	Nonstocked	19.0		Unspecified	No	series of old beaver ponds and meadows. water, tag alder, swamp grass																																					
32	4134 - Aspen, Spruce/Fir	Poletimber Well	41.8	45	Unspecified	N/A	scattered 2 age aspen. slight component of aspen 14-16" dbh. small perched low ground with intermittent creek flowing west. semi low in east "arm" of the stand - BA prevalent with scattered balm.																																					
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34	4110 - Sugar Maple Association	Sawtimber Well	420.4	82	81-110	N/A	good form on h maple and basswood. basswood is 10-15" dbh, h maple 8-16". very scattered h maple saplings stand average is 90 BA																																					
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<b>35</b>	4130 - Aspen	Poletimber Well	31.6	55	Unspecified	N/A	aspen 10-14" dbh. very scattered conifer, fairly well stocked h maple saplings. stand is beginning to convert to n hardwoods																																																
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<b>36</b>	6120 - Lowland Cedar	Poletimber Well	4.9	92	Unspecified	N/A	very dense cedar with associated b spruce. heavy winter deer use.																																																
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<b>37</b>	3205 - Mixed Upland Shrub	Nonstocked	10.5		Unspecified	No	semi open. open grown cherry, spruce/fir coming in along edges																																																
<b>38</b>	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.1	45	Unspecified	N/A	Seep and drainage through large hardwood stand. pockets of balm with highly stocked b ash. associated spr/fir scattered throughout																																																
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<b>43</b>	6120 - Lowland Cedar	Poletimber Well	75.1	92	111-140	N/A	high quality cedar swamp. heavily used by wintering deer																																																
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<b>44</b>	4110 - Sugar Maple Association	Sawtimber Well	154.0	75	81-110	N/A	very scattered pockets of h maple saplings 3-5" tall. good form on h maple, 6-18" dbh. average stand 100BA																																																
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<b>45</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	10.4	32	Unspecified	N/A	very scattered r pine saplings. stand is just moving into poletimber. lower quality aspen. access is through PVT																																					
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<b>48</b>	6230 - Cattail	Nonstocked	36.0	0	Unspecified	6122 - Black Spruce	lowland conifer stand cut in 2018. no tree regeneration apparent, heavily grown in with cattails																																					
<b>49</b>	4130 - Aspen	Poletimber Well	10.2	47	Unspecified	N/A	aspen with h maple component																																					
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<b>51</b>	4110 - Sugar Maple Association	Poletimber Well	14.6	63	51-80	N/A	stand average 70 BA																																					
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<b>52</b>	4319 - Mixed Upland Forest	Poletimber Well	8.9	33	Unspecified	N/A	scattered balm 4-5". scattered small open areas. very scattered r pine																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**53** 4134 - Aspen, Spruce/Fir Sapling Well 47.1 25 Unspecified N/A stand is just moving into poletimber size class. A5/A3

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog	18		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	60	Sapling/Pole	4	25	Hazelnut (American)	Medium	< 5 feet	Tall Shrub
White Spruce	10	Sapling/Pole	3					
Balsam Fir	15	Pole/Sapling	5					
Red Maple	10	Pole/Sapling	5					

**54** 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 18.3 55 Unspecified N/A small intermittent creek and associated drainage. stand is buffering creek

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Log	12	
Yellow Birch	20	Pole	7	
White Spruce	10	Pole	8	
Red Maple	20	Pole	7	
Black Ash	30	Pole	6	55

**56** 6229 - Mixed lowland shrub Nonstocked 11.9 Unspecified No open marsh - swamp grass

**58** 4134 - Aspen, Spruce/Fir Sapling Well 28.6 10 Immature N/A good pockets of conifer throughout

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	6		Hazelnut (American)	High	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Black Cherry	5	Pole	7					
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