



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12042

Entry Year 2021

Acreage: 2,151

County Dickinson

Management Area: Ralph Ground Moraine

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**Revision Date:** 2019-08-04

**Stand Examiner:** Deb Goupell

**Legal Description:**

Dickinson Co.  
T43N R29W Sec 3,4,9,10  
T44N R29W Sec 32-34

**Identified Planning Goals:**

Optimize sustainable timber production, enhance wildlife habitat and protect riparian areas.

**Soil and topography:**

The better pine sites are dominated by Rubicon sands, which are excessively drained with 0-6% slope. The aspen stands are relatively flat to rolling hills with Zimmerman or Escanaba loamy fine sands. Lowlands are Carbondale/Cathro mucks.

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

Some private including Keweenaw Land Association.

**Unique Natural Features:**

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

None identified.

**Special Management Designations or Considerations:**

Cold water streams.

**Watershed and Fisheries Considerations:**

This northwestern region of this compartment contains Twomile Creek which serves as a tributary to the Ford River. Twomile Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Twomile Creek in 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.

The northern region of this compartment borders the North Branch of the Ford River. The North Branch of the Ford River is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the North Branch of the Ford River in 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.

The southern region of this compartment borders Turner Creek which serves as a tributary to the Ford River. Turner Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Turner Creek in 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:**

This compartment falls within the Ralph Ground Moraine MA, with woodcock, black bear, northern goshawk, grouse and deer as featured species. It is part of the Iron-Floodwood DWC and riparian habitat serves as travel corridors for migrating deer. The Camp Pottsville Hunter Walking Trail System provides an extensive system for hunters and openings for wildlife.

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

The nearest active sand/gravel operation is located six miles away, and there may only be limited sand & gravel potential within the compartment. There has been no history of metallic mineral mining in this area. Mineral rights in and around the compartment were previously leased for metallic mineral exploration and development more than 30 years ago. Some mineral exploration occurred in the late 1970s at the northwest end of the compartment, in sections 29 and 32. There may be iron ore potential in this area, particularly in Section 32, but the depth and quality of any iron formations is unknown.

There may be potential for other metallic minerals in the compartment. There is no known potential for economic

hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Access to southeast is limited by gates on private.

**Survey Needs:**

Corners will be needed.

**Recreational Facilities and Opportunities:**

Snowmobile trail on west end of compartment.

**Fire Protection:**

Felch fire 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

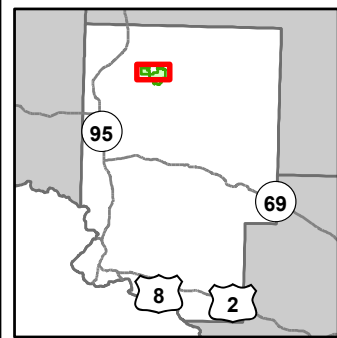
The following information is displayed, where pertinent, on the attached compartment maps:

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



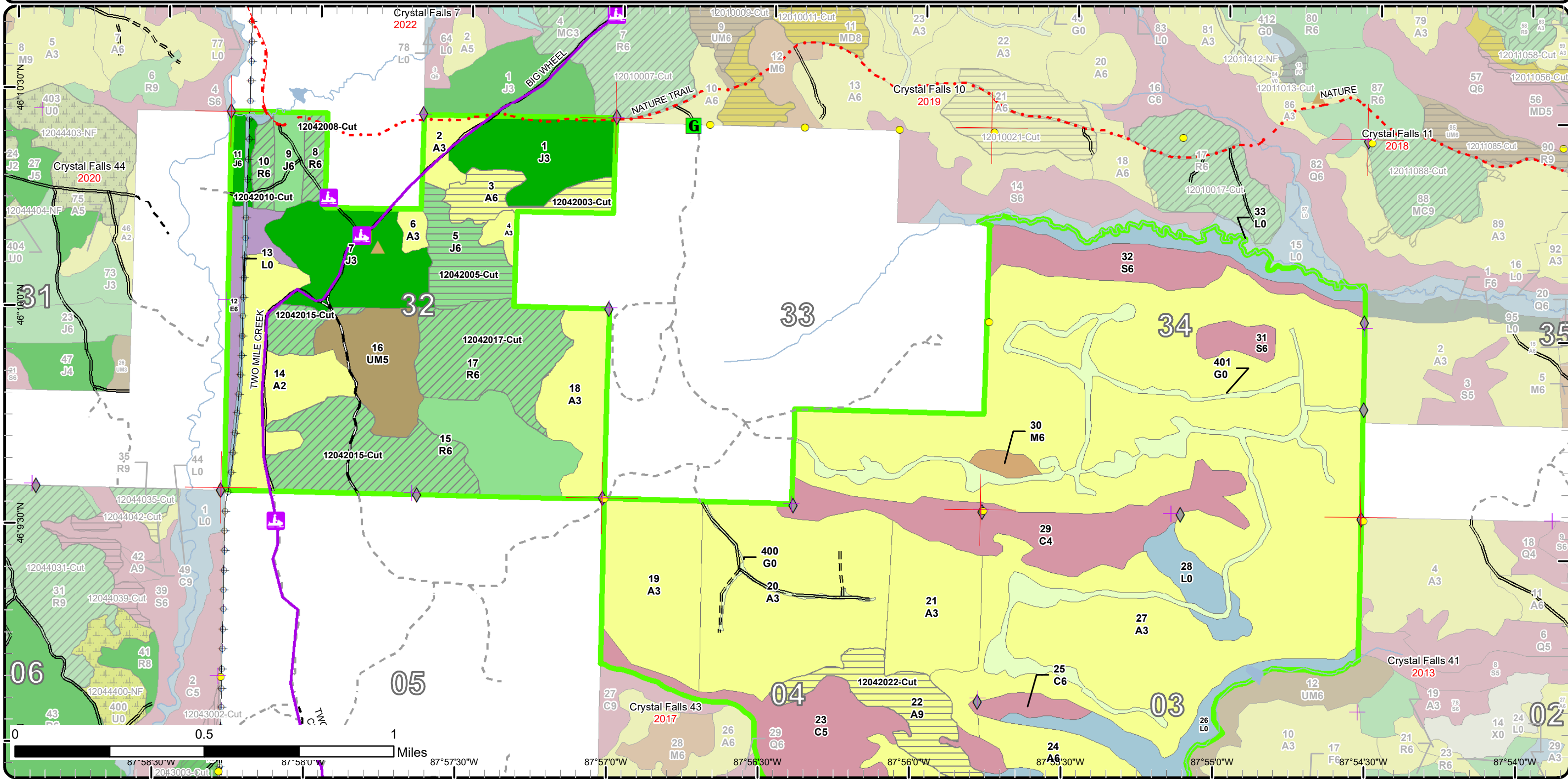


# Cover Type & Treatments Map

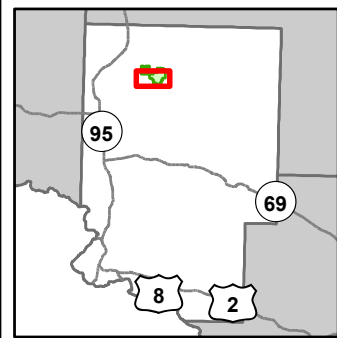


Compartment: 42  
 T44N, R29W, Sec. 32-34  
 T43N, R29W, Sec. 3, 4, 9, 10  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Ralph Ground  
 Moraine  
 YOE: 2021  
 Acres: 2,151 GIS Calculated  
 Examiner: Deb Goupell  
 Map Revised: 1/27/2020  
 Map Phase: Post-Review

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>✚ Remonumented Section Corners</li> <li>● Survey Grade Corners</li> <li>◆ Field 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>- - - Federal / State - Dirt / Gravel Road</li> <li>- . - . County - Gravel Road</li> <li>- - - County - Dirt Road (Seasonal)</li> <li>- - - Private - Dirt / Gravel Road</li> <li>🚙 Snowmobile Trails</li> <li>🚙 Designated Snowmobile Trails</li> </ul> | <ul style="list-style-type: none"> <li>▲ Berms</li> <li>G Gate</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>■ 421 - Planted Pines</li> <li>■ 422 - Natural Pines</li> <li>■ 430 - Upland Mixed Forest</li> <li>■ 611 - Lowland Deciduous Forest</li> </ul> | <ul style="list-style-type: none"> <li>■ 612 - Lowland Coniferous Forest</li> <li>■ 310 - Herbaceous Openland</li> <li>■ 622 - Lowland Shrub</li> </ul> |
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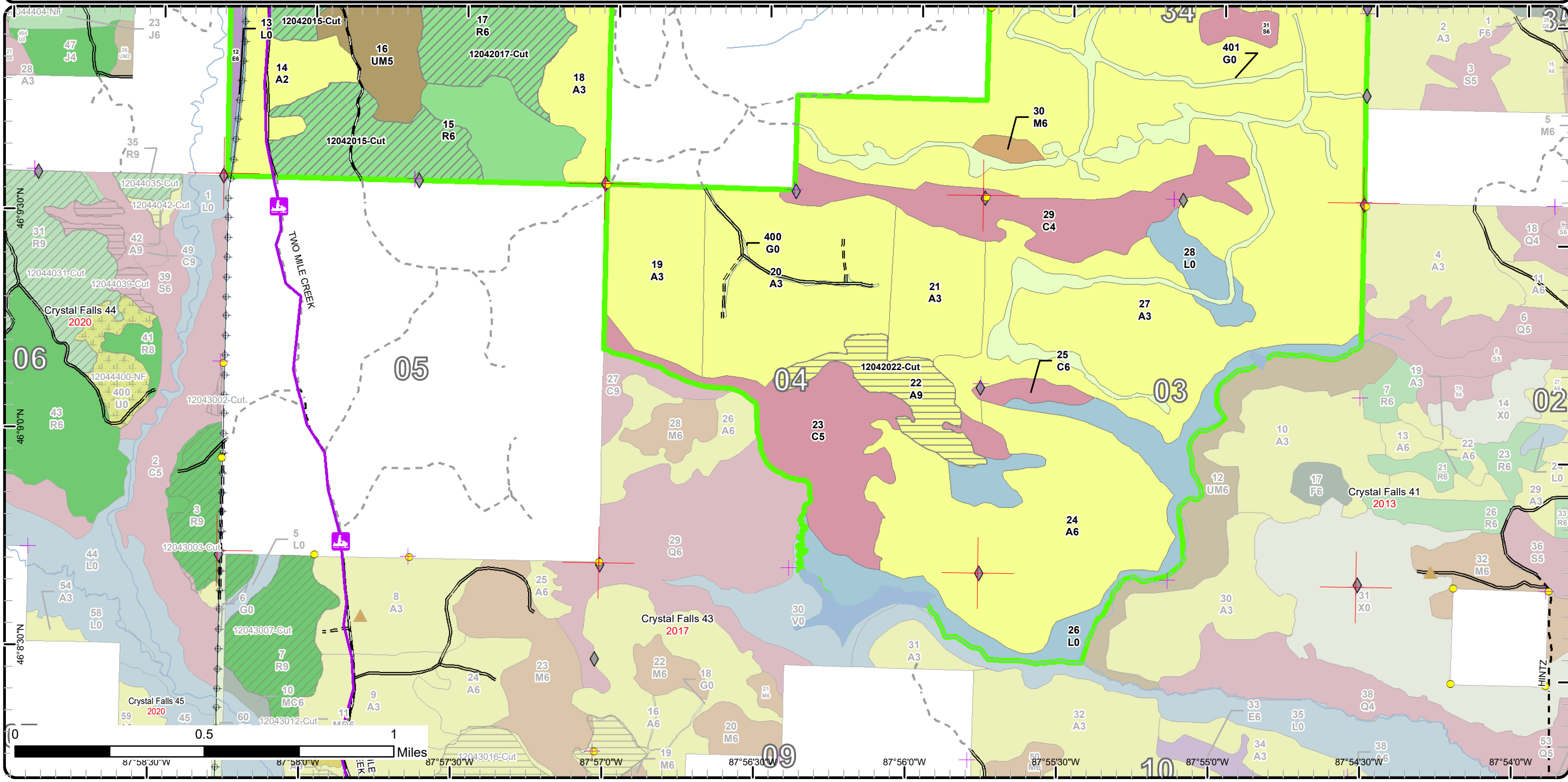


# Cover Type & Treatments Map



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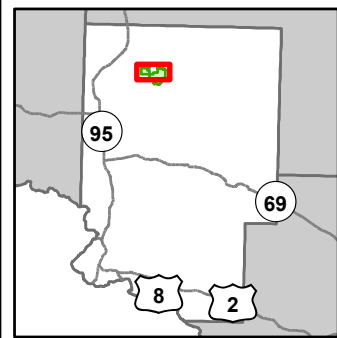
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- ▨ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
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- 622 - Lowland Shrub



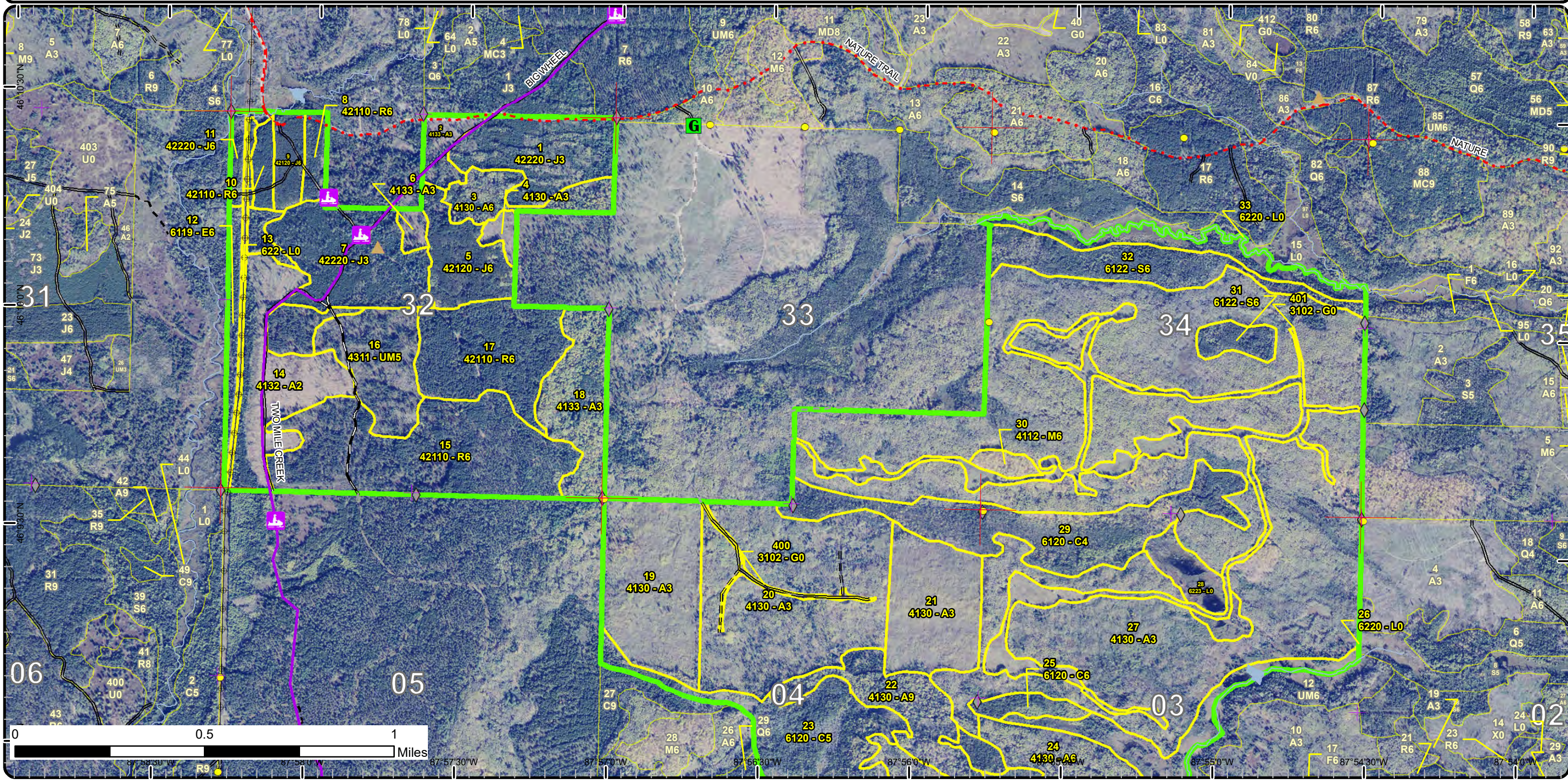


# Stand Boundary Map

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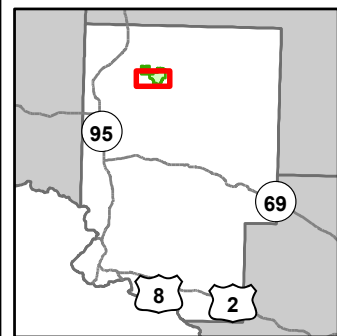
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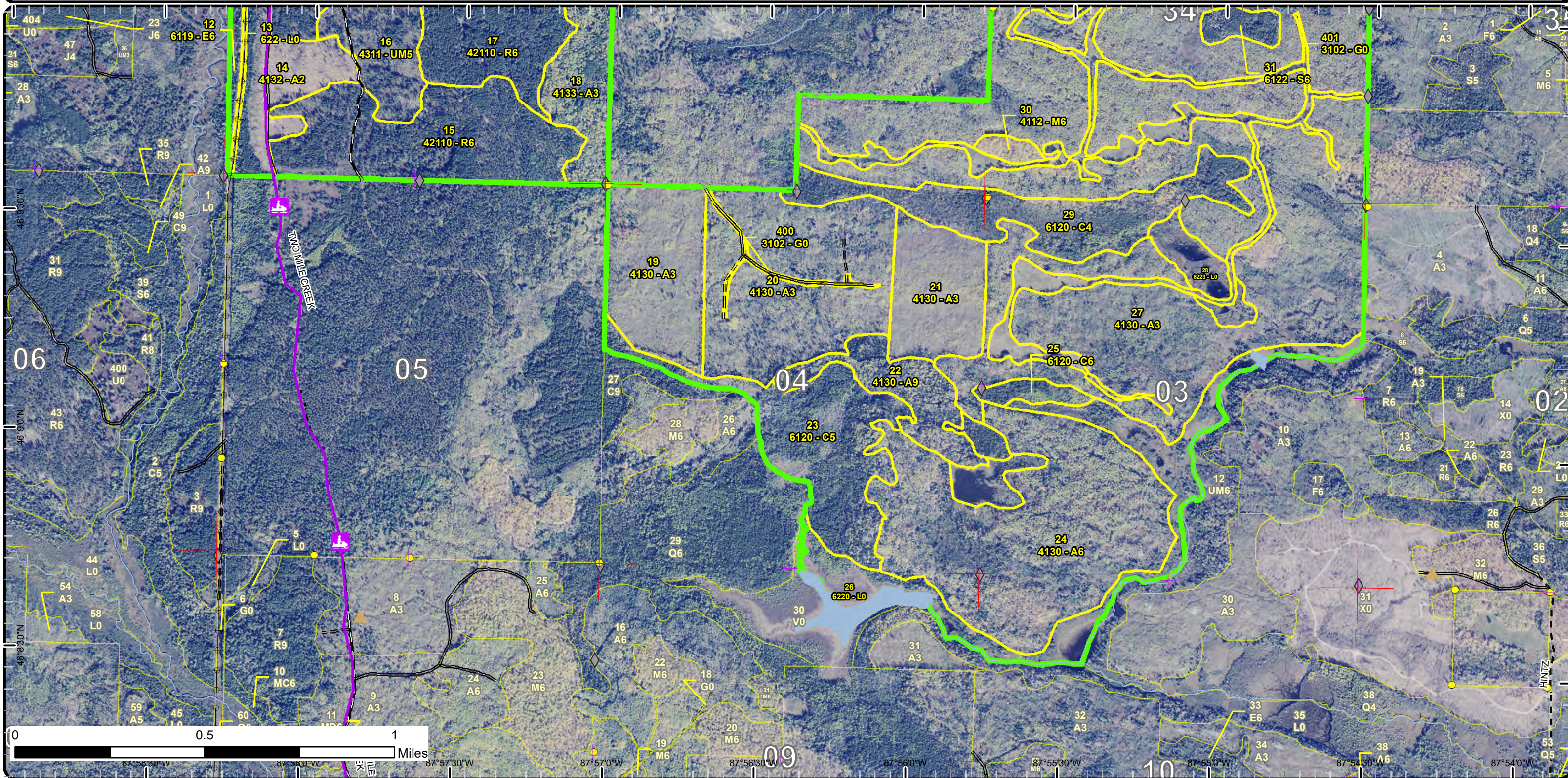


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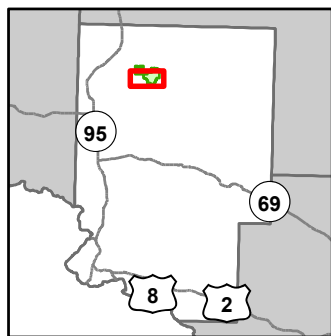




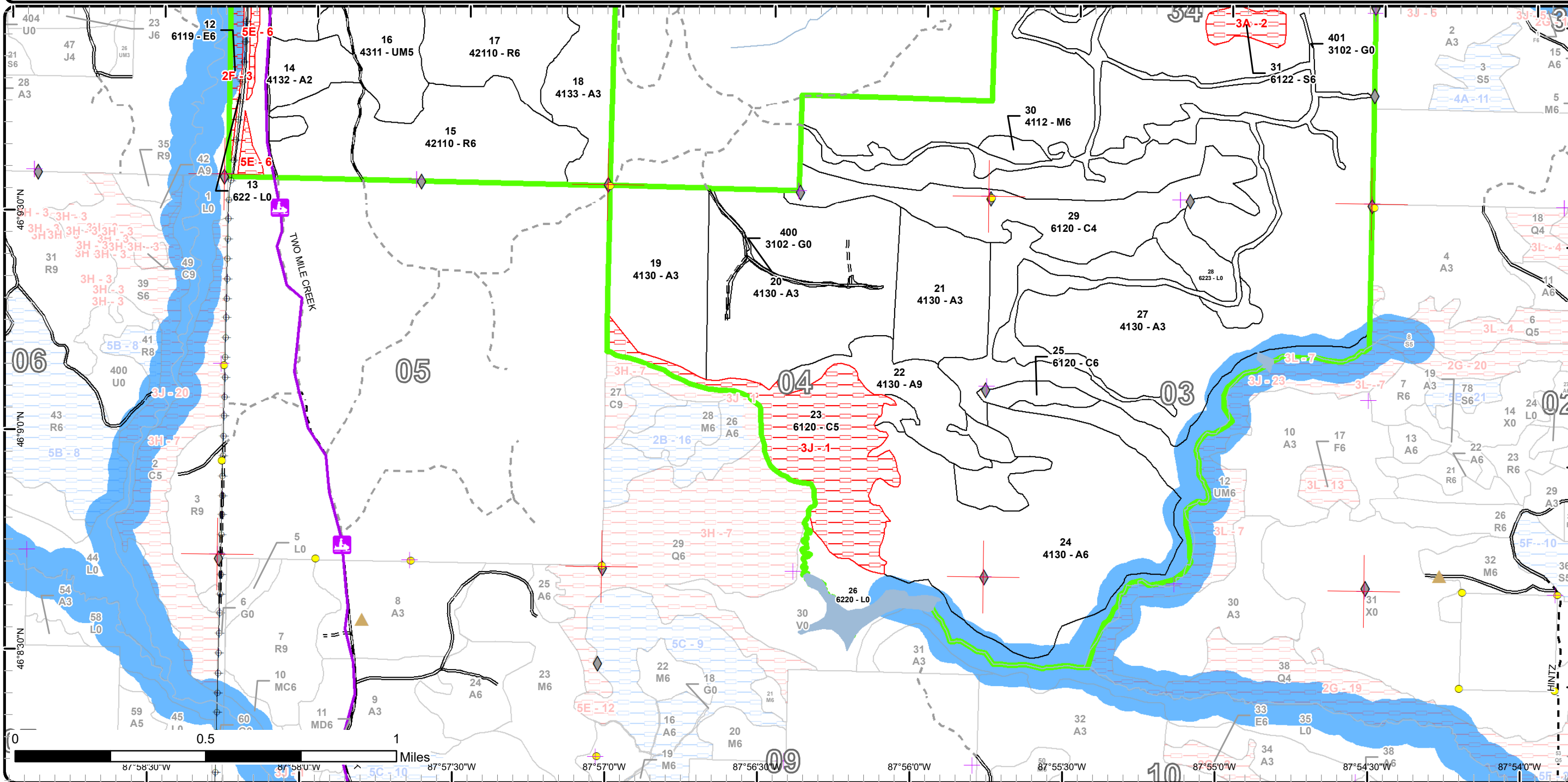


# Special Conservation Areas & Site Conditions Map

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- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





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	123	128	135	611	226	0	0	0	39	0	0	0	0	0	0	0	0	1261
Cedar	0	0	0	0	0	0	0	0	0	105	81	0	0	0	0	0	0	0	186
Herbaceous Openland	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Jack Pine	0	0	0	105	0	21	0	31	0	0	0	0	0	0	0	0	0	0	157
Lowland Deciduous	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Lowland Shrub	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	11	0	44	0	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	8	0	188	0	0	0	0	0	0	0	0	0	0	196
Upland Mixed Forest	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
<b>Total</b>	<b>229</b>	<b>123</b>	<b>169</b>	<b>240</b>	<b>611</b>	<b>255</b>	<b>0</b>	<b>219</b>	<b>11</b>	<b>169</b>	<b>125</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2150</b>





## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 42  
Total Compartment Acres: 2,151

Commercial Harvest - 245  
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	62	0	0	0	0	0	0	0	0	62
Jack Pine	31	0	0	0	0	0	0	0	0	31
Red Pine	0	0	0	0	0	152	0	0	0	152
<b>Total</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>152</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>245</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	245	0	0	0	0	0	0	75	0	320
Next Step	0	0	54	0	0	54	40	0	0	147
<b>Total</b>	<b>245</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>40</b>	<b>0</b>	<b>75</b>	<b>467</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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**Proposed Treatments:**

<b>3</b>	<b>12042003-Cut</b>	22.7	4130 - Aspen	Poletimber Well	46	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, herbicide and plant to red pine. Kotar supports red pine, suggests aspen, maple and oak will not do well on this soil type.</p> <p><u>Specs:</u> West half of stand will be treated and planted to pine. East half will be left for natural regeneration.</p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red 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 /2020</p>											
<b>5</b>	<b>12042005-Cut</b>	31.0	42120 - Planted Jack Pine	Poletimber Well	62	Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest, no retention. Herbicide and plant to jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Kotar supports red pine growth on this site (also jack pine). Originally recommended red pine due to the nice form of red pine directly south of this stand</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>8</b>	<b>12042008-Cut</b>	8.9	42110 - Planted Red Pine	Poletimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to BA 110 or 1/3, whichever comes first. Remove all jack pine &amp; other species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2020</p>											
<b>10</b>	<b>12042010-Cut</b>	8.0	42110 - Planted Red Pine	Poletimber Well	48	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to release crop trees to BA 110 or 1/3, whichever comes first. Remove all other species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2020</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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15	12042015-Cut	74.8	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to BA 110, or 1/3, whichever comes first. Focus on releasing crowns and choosing quality stems.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

17	12042017-Cut	60.1	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Focus on removal of 16"+ dbh red pine and suppressed trees, releasing crowns of residual trees. Retain 26"dbh and greater red pine.

Specs: Diameters range from 8-20". Remove suppressed and limby white pine 10" dbh and smaller. Leave 1-2 white birch and/or red maple per acre as available.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

22	12042022-Cut	39.5	4130 - Aspen	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stems 2" and greater, retaining all cedar, white/red pine, oak if found. Swale with some black ash cuts stand but will be easily crossable with mats.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, mixed softwood, pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

400	12042400-NF	4.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
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Prescription WLD- mechanical opening maintenance. This should probably be scheduled after the harvest of stand 22 to the south as this will be the route utilized for access.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020





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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
401 12042401-NF	70.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> WLD- Mechanical opening maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2020</p>										

**Total Treatment** 319.9  
**Acreage Proposed:**



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 42  
 Year of Entry: 2021



### Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions						
		With Condition	Not Available		5C	2F	2G	3A	3H	3J	5E
1262	1254	0	8	Aspen			0			0	8
186	101	0	85	Cedar						85	
75	75	0	0	Herbaceous Openland							
157	157	0	0	Jack Pine							
19	0	0	19	Lowland Deciduous		13			6		
153	153	0	0	Lowland Shrub		0					
55	0	26	29	Lowland Spruce/Fir	26			11		18	
6	6	0	0	Northern Hardwood							
196	196	0	0	Red Pine							
41	41	0	0	Upland Mixed Forest							
2,151	1,983	26	141	Total Forested Acres	26	13	0	11	6	103	8
	92%	1%	7%	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)	86	5A: Not able to obtain desirable regeneration	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is quite wet.							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Deb Goupell : Examiner

Compartment: 42  
 Year of Entry: 2021



3	Unavailable	2F: Too steep	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Consider harvest when there is more volume.							



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
<b>Comments</b>				





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

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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	42220 - Natural Jack Pine	Sapling Well	46.0	26	Immature	N/A	Jack Pine Junction II cut in 1994. Jack pine dbh ranges from 3-6". aspen more in center of stand, mature red pine on east line.																																				
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2	4133 - Aspen, Mixed Pine	Sapling Well	12.4	5	Unspecified	N/A	south 1/2 of stand is red pine overstory. Cut in 2015 Aspen or Pine TS																																				
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3	4130 - Aspen	Poletimber Well	22.7	46	51-80	N/A	white birch more on east side of stand. This may be a better jack pine or white pine site, possibly red pine.																																				
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Jack Pine	8	Pole	8																																								
4	4130 - Aspen	Sapling Well	5.3	5	Immature	N/A	There was a trace of white pine residual. Aspen or Pine TS cut 2015.																																				
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5	42120 - Planted Jack Pine	Poletimber Well	31.0	62	Unspecified	N/A	Jack pine is breaking up and limby. Consider conversion to red pine.																																				
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6	4133 - Aspen, Mixed Pine	Sapling Well	4.8	5	Immature	N/A	Aspen or Pine TS cut 2015																																				
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Quaking Aspen	75	Sapling	1	5																																							
White Pine	22	Sapling	1																																								
7	42220 - Natural Jack Pine	Sapling Well	59.2	26	Immature	N/A	There is a few pockets of pole sized jack pine in here (7"dbh). JP sapling dbh range from 2-5". Jack Pine Junction II cut in 1994																																				
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Red Pine	15	Log/Pole	12																																								
8	42110 - Planted Red Pine	Poletimber Well	8.9	61	141-170	N/A	Some scattered jack pine in here																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
9	42120 - Planted Jack Pine	Poletimber Well	12.7	47	Unspecified	N/A	Crowns are thin. Hold it until we final harvest adjacent stands.																											
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10	42110 - Planted Red Pine	Poletimber Well	8.0	48	111-140	N/A	row thinned in 2014 under Powerline Pine sale #12-060-11. should be field verified next inventory cycle																											
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11	42220 - Natural Jack Pine	Poletimber Well	8.1	47	111-140	N/A	OI Stand Year Origin was 1958??																											
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12	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	19.3	85	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1935																											
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13	622 - Lowland Shrub	Nonstocked	7.7		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																											
14	4132 - Aspen, Jack Pine	Sapling Medium	57.7	6	Immature	N/A	Stand was cut 2014 Powerline Pine and scarified in 2015. Jack pine ~1 foot tall scattered in pockets: far east edge and center along road. Aspen is 4+' tall. Retention along powerline 300' from Two Mile Ck.																											
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15	42110 - Planted Red Pine	Poletimber Well	119.2	65	141-170	N/A	a few jackpine along road on east side. BAs range from 120-190. Thinned in 2004 Section 32 Pine TS except far southeast portion was thinned in 2014 Powerline Pine. Focus on removal of 1/3																											
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Red Pine	100	Pole	8	65	Quaking Aspen	Low	10 - 20 feet	Sapling																										
16	4311 - Pine, Aspen Mix	Poletimber Medium	40.6	16	1-50	N/A	Stand last harvested in 2004 Section 32 Pine: aspen, birch, red maple and jack pine were cut plus some orange marked red pine. Jack pine dbhs range from 3-8".																											
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17	42110 - Planted Red Pine	Poletimber Well	60.1	65	141-170	N/A	Red pine is very good looking. Dbhs range from 8-20". Focus on removal of 16" dbh + and suppressed trees. BA sample plots were: 220, 160, 180,140,190,120,180 of RP.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
18	4133 - Aspen, Mixed Pine	Sapling Well	42.0	5	Immature	N/A	Powerline Pine cut 2015. Some WP overstory (saw 1 oak). Aspen in south seems off site for 3 year old aspen as it was fairly short.																																	
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19	4130 - Aspen	Sapling Well	73.4	16	Immature	N/A	Turner Creek TS cut 2004																																	
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20	4130 - Aspen	Sapling Well	134.9	27	Immature	N/A	Fall Mushroom TS cut 1993. conifer more along trail edges in center of stand																																	
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21	4130 - Aspen	Sapling Well	54.2	16	Immature	N/A	Turner Creek TS cut 2004																																	
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22	4130 - Aspen	Sawtimber Well	39.4	88	111-140	N/A	Stand was held for age class diversity. Tag swale cuts the stand but can easily be crossed with mats or frozen ground condition.																																	
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23	6120 - Lowland Cedar	Poletimber Medium	89.0	85	Unspecified	N/A	Some flooded out tamarack dying in north.																																	
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24	4130 - Aspen	Poletimber Well	203.7	42	Unspecified	N/A	North Branch Turner Ck Block TS cut 1978																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
25	6120 - Lowland Cedar	Poletimber Well	16.0	85	141-170	N/A																					
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Northern White Cedar	85	Pole	9	85																							
Tamarack	15	Pole	8																								
26	6220 - Alder/willow	Nonstocked	99.6		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																				
27	4130 - Aspen	Sapling Well	611.1	33	Immature	N/A	Aspen is 4" dbh on north half, 8-9" along trail, 6" average. Smattering of sugar maple, red maple and pine. Comp 42 TS cut 1987.																				
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Quaking Aspen	78	Pole/Sapling	6	33																							
Balsam Poplar	20	Pole/Sapling	5																								
28	6223 - Inundated Shrub Swamp	Nonstocked	20.5	0	Unspecified	No	Stand is very wet and not very dense except for tag alder.																				
29	6120 - Lowland Cedar	Poletimber Poor	81.3	95	Unspecified	N/A	Stand is very wet and not very dense except for tag alder.																				
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Tamarack	15	Pole/Sapling	5																								
30	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.9	85	81-110	N/A	Most of birch is half dead. Will benefit from cleansing thin but not enough to come after alone.																				
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31	6122 - Black Spruce	Poletimber Well	10.9	79	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1925																				
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32	6122 - Black Spruce	Poletimber Well	44.4	95	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1925																				
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33	6220 - Alder/willow	Nonstocked	25.7		Unspecified	No																					
400	3102 - Grass	Nonstocked	4.0		Unspecified	Managed Opening	OPIC - FMD: Opening maintenance. OI Stand Year Origin was																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	3102 - Grass	Nonstocked	70.9		Unspecified	Managed Opening	OPIC - FMD: Opening maintenance. OI Stand Year Origin was