



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12034

Entry Year 2022

Acreage: 3,613

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2020-10-19

Stand Examiner: Deb Goupell

Legal Description:

T44N R28W Sec 21-23,25-28,33-36

T43N R28W Sec 1-3

Identified Planning Goals:

Manage for best tree species based on Kotar habitat recommendations. Maintain a sustainable, healthy forest with diversity. Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Some rolling terrain, some flat terrain with large glacial boulders, some lowland Cathro muck in swamp lands.

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

Mostly state land with a few private parcels.

Unique Natural Features:

McGregor Creek and North branch of the North branch of the Ford River make up the north and south boundaries.

Archeological, Historical, and Cultural Features:

None noted

Special Management Designations or Considerations:

Cold water trout streams.

Watershed and Fisheries Considerations:

This compartment contains McGregor Creek and the North Branch of the Ford River. McGregor Creek is a designated a Type 1 trout stream less than 50' width and serves as a tributary to the West Branch of the Escanaba River. A 300' buffer is recommended for McGregor 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 North Branch of the Ford River is a designated 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.

Wildlife Habitat Considerations:

This compartment contains both state game fund purchased lands and DWC. Maintaining age-class and species diversity is of primary importance for wildlife. Riparian and lowland corridors provide important habitat and movement corridors for many wildlife species including deer, bear, wolves and furbearers.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Aimone Road is a county road that crosses through the center of this compartment. Various other state forest roads access the majority of compartment.

Survey Needs:

A couple corners may need to be established or re-established.

Recreational Facilities and Opportunities:

Snowmobile trail crosses a piece in far east. Area used heavily for hunting, ATV riding, fishing, trapping.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

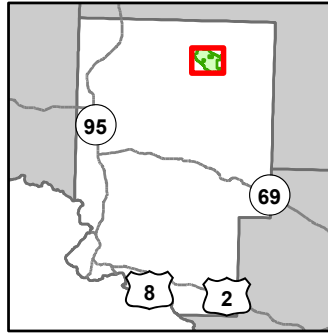
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

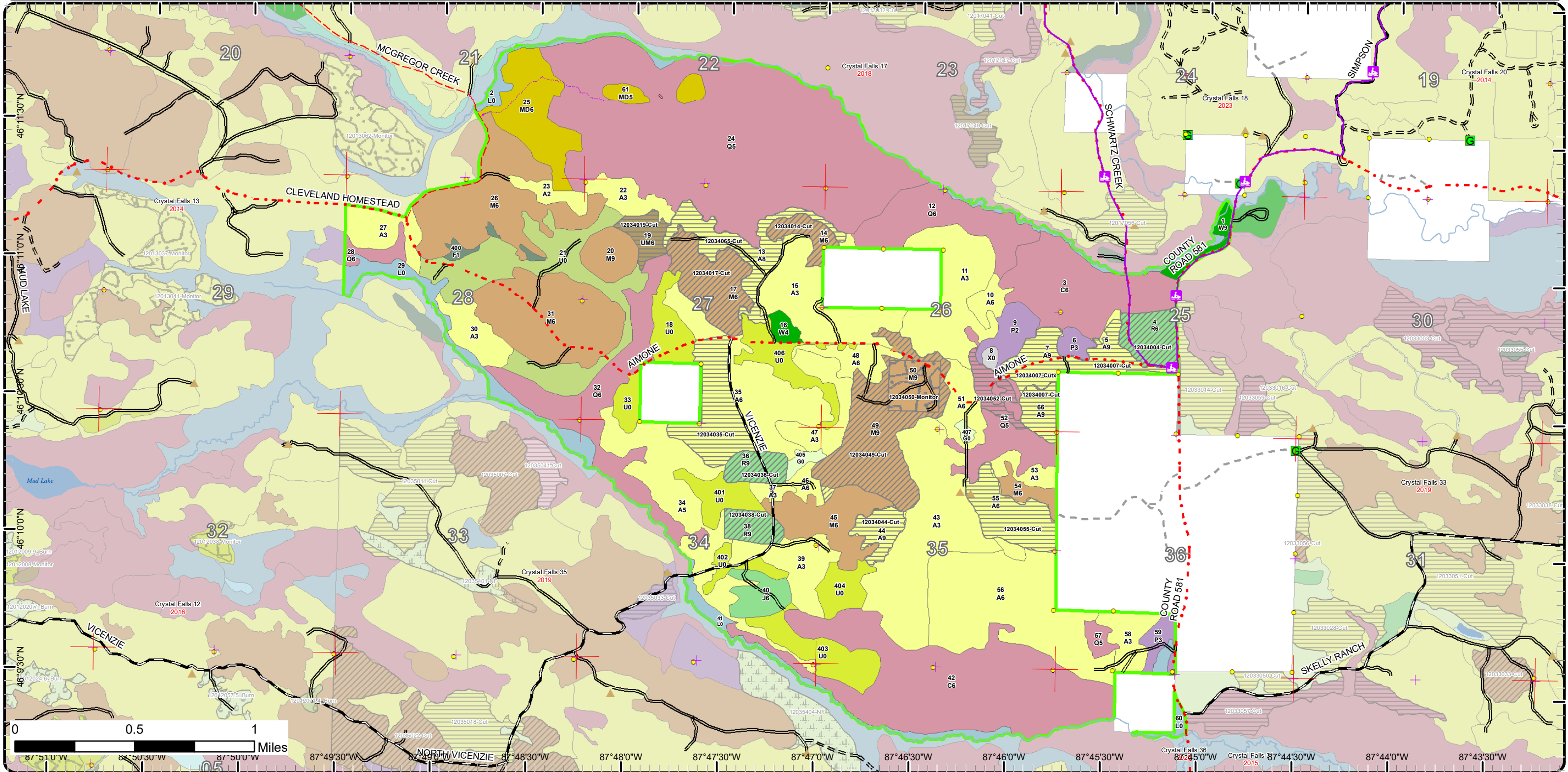
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 34
 T44N, R28W, Sec. 21-23, 25-28,
 33-36
 T43N, R28W, Sec. 1-3
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2022
 Acres: 3613 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 1/22/2021
 Map Phase: Post-Review

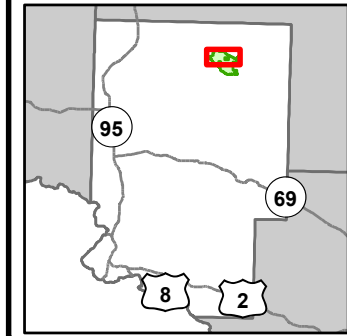


- Miris Corners
- ✦ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .-.- County - Gravel Road
- .-.- County - Dirt Road (Seasonal)
- - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- 🚙 Designated Snowmobile Trails
- ▲ Berms
- ⬮ Gate
- Intermittent Stream
- Perennial River
- Pipeline
- Non-Designated Recreational Trail
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

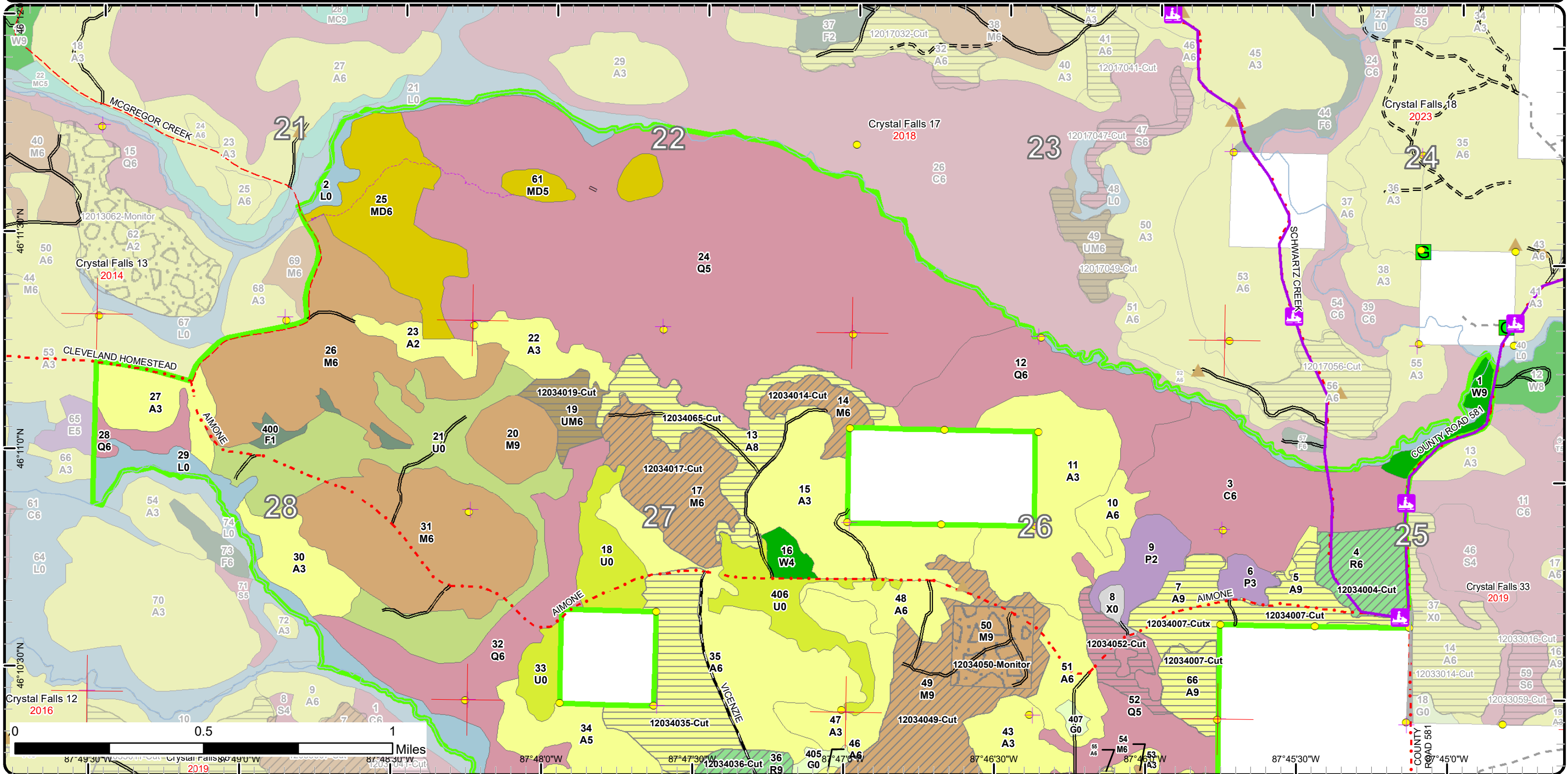


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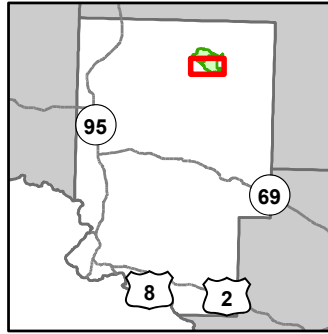


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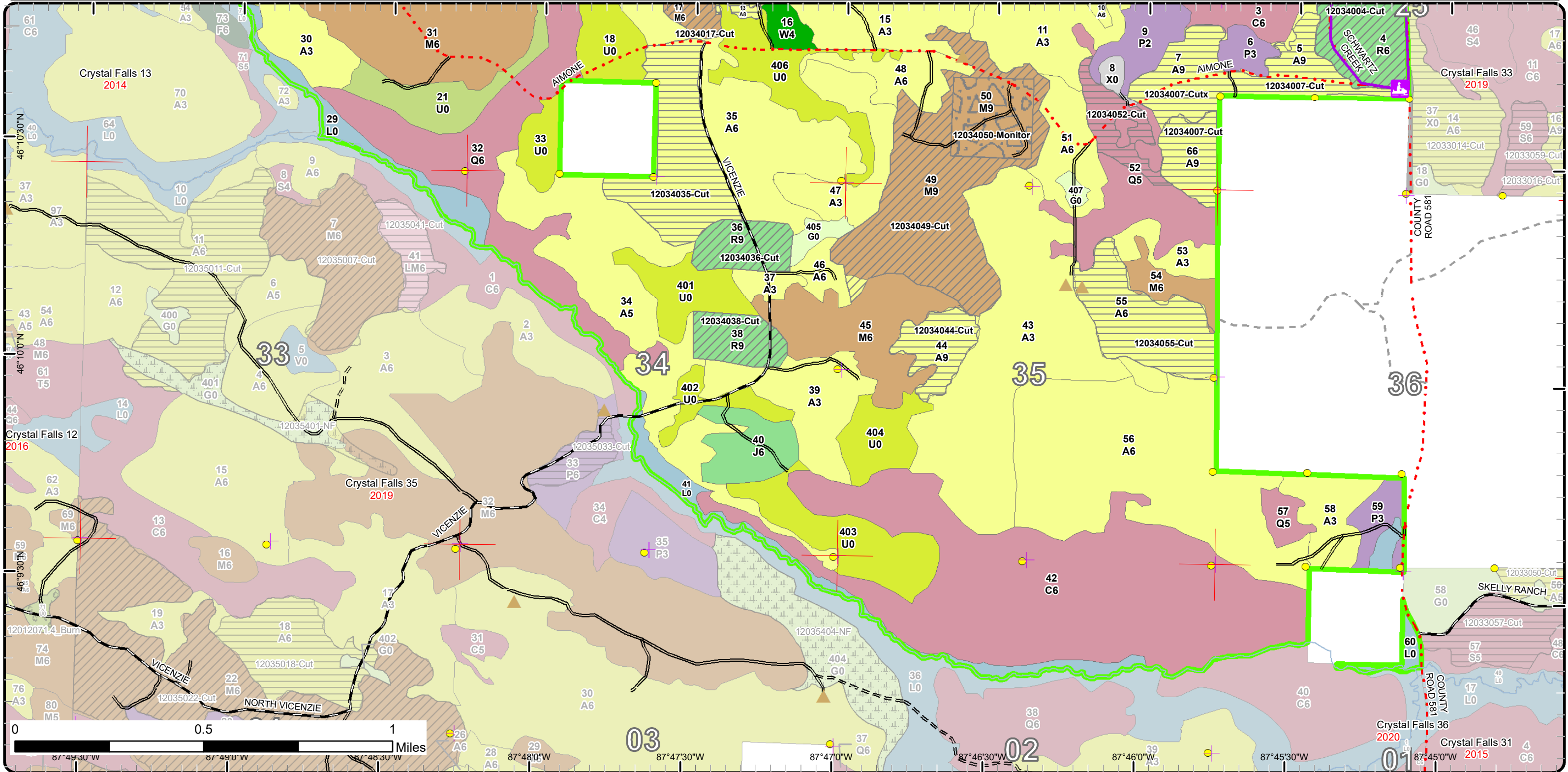


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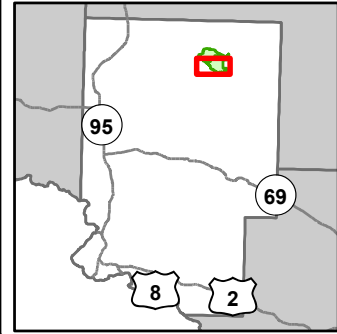


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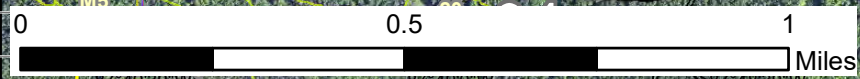
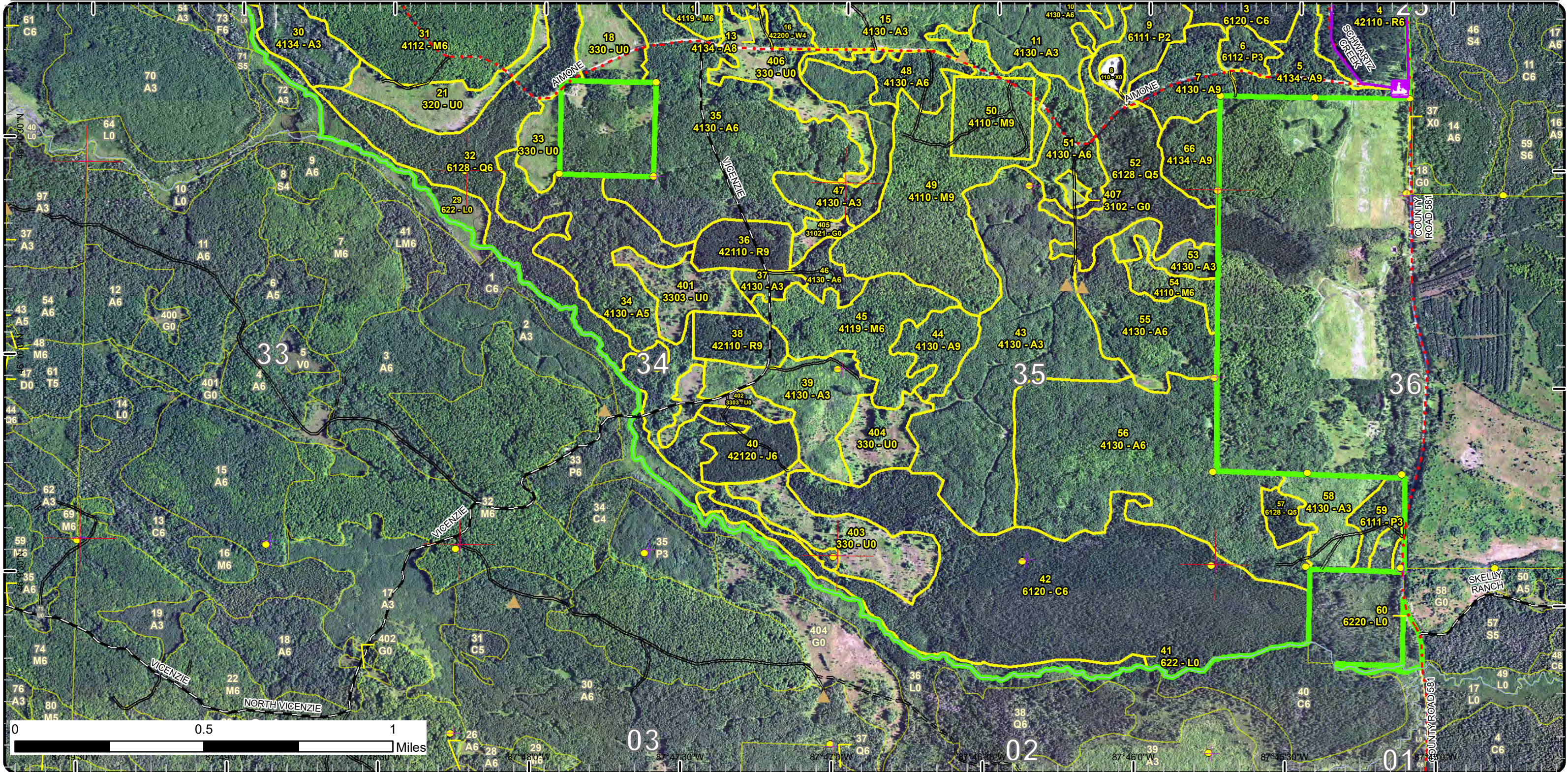


Stand Boundary Map

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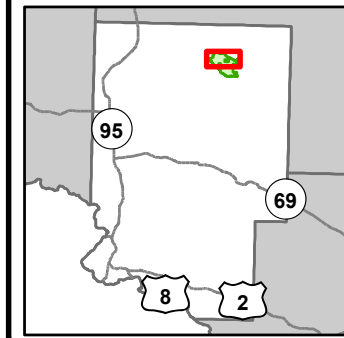


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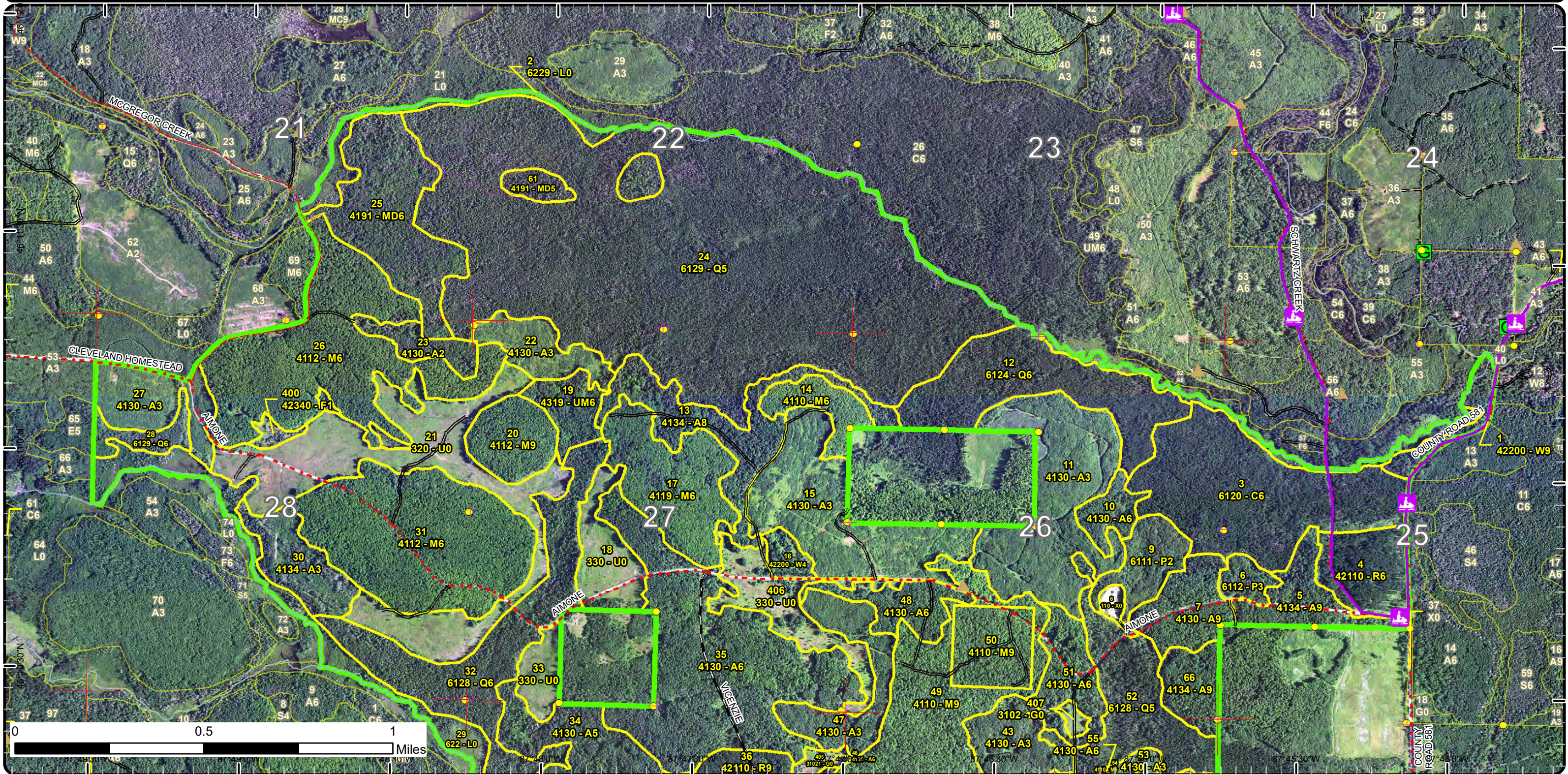


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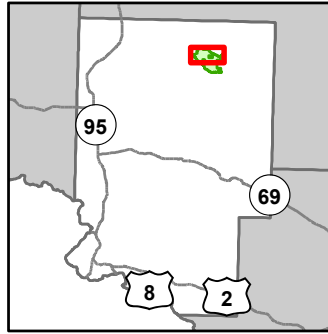


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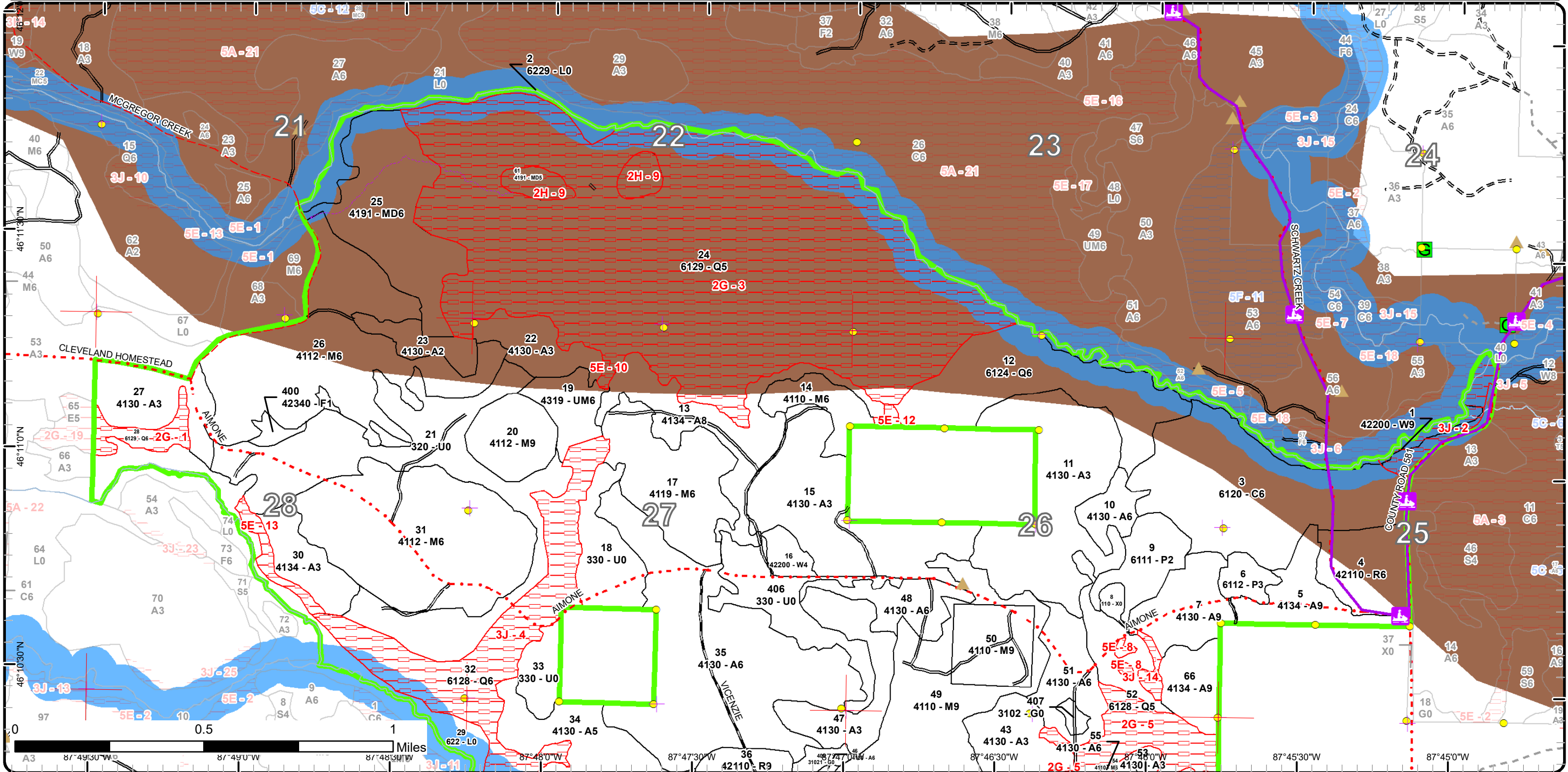


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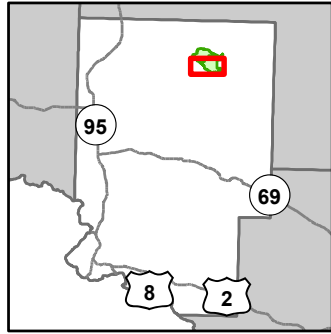


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- Non-Designated Recreational Trail
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

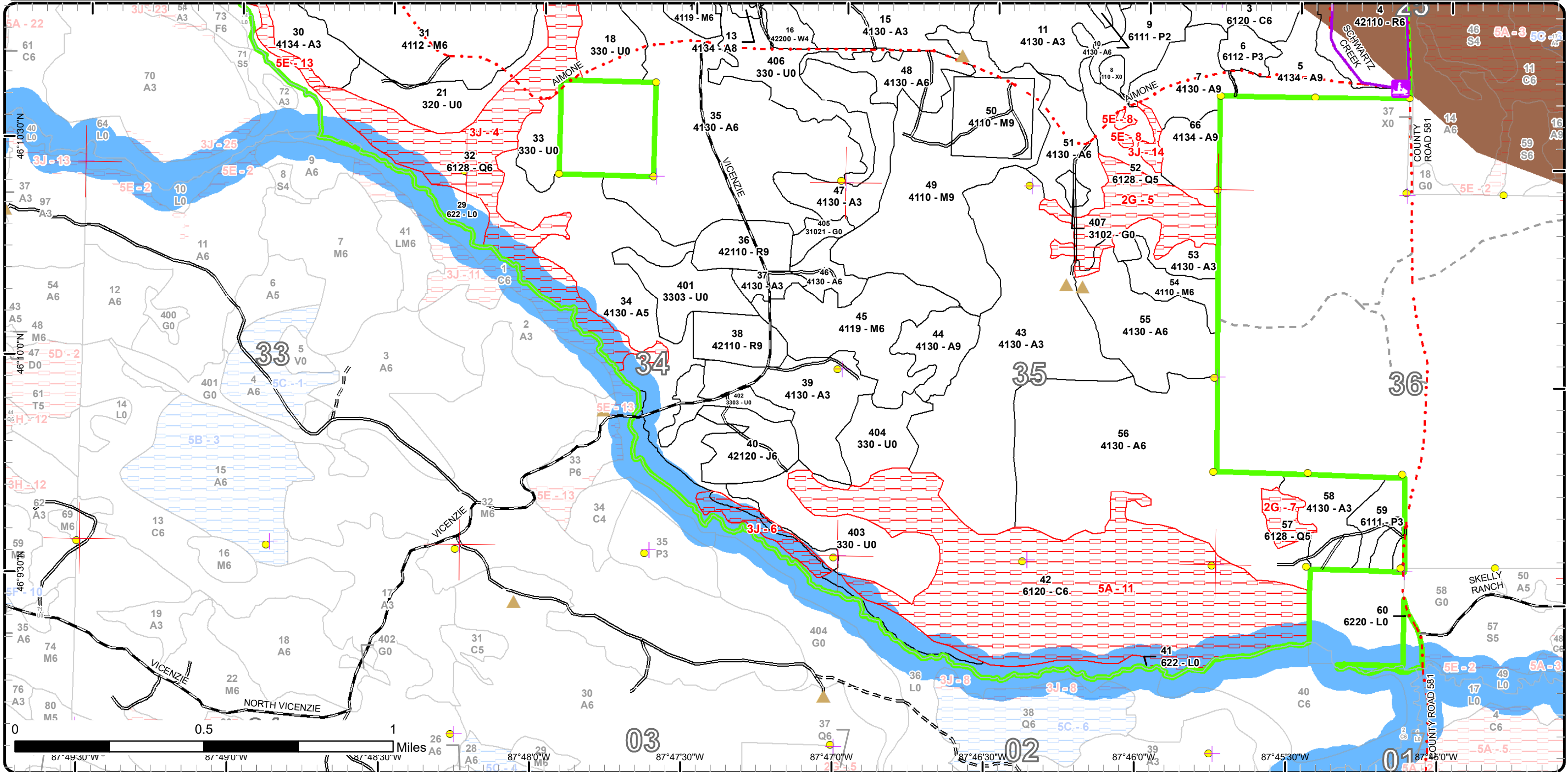


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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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	106	252	35	252	309	219	53	0	0	0	0	0	0	0	0	0	0	1224
Cedar	0	0	0	0	0	0	0	0	0	0	0	371	0	0	0	0	0	0	371
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
Lowland Aspen/Balsam Poplar	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	0	0	76	0	0	184	0	514	0	0	0	0	0	0	774
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Mixed Upland Deciduous	0	0	0	0	0	0	71	0	0	0	0	15	0	0	0	0	0	0	86
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	548	0	0	0	0	0	0	0	548
Red Pine	0	0	0	0	0	0	0	0	32	39	0	0	0	0	0	0	0	0	71
Upland Mixed Forest	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Upland Spruce/Fir	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	8	21
Total	420	106	252	88	277	327	366	53	32	223	561	900	0	0	0	0	0	8	3611



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 34
Total Compartment Acres: 3,613

Commercial Harvest - 532
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	248	0	0	0	0	0	0	0	0	248
Lowland Conifers	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	177	0	0	0	177
Red Pine	0	0	0	0	0	72	0	0	0	72
Upland Mixed Forest	18	0	0	0	0	0	0	0	0	18
Total	283	0	0	0	0	249	0	0	0	532

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	532	0	0	0	0	159	29	0	0	721
Next Step	0	0	159	0	0	0	602	0	0	762
Total	532	0	159	0	0	159	631	0	0	1482



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:

4	12034004-Cut	32.3	42110 - Planted Red Pine	Poletimber Well	72	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release crowns of crop trees. Remove poorer formed trees. Thin to 90-100 BA. Leave WP and oak if present</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 /2021</p>											
7	12034007-Cutx	29.0	4130 - Aspen	Sawtimber Well	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" dbh and up except white pine, red pine, cedar/oak if found. Leave small clumps of 1 stick and less spruce and fir where available.</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> mixed aspen, mixed hardwood, mixed softwood</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 /2021</p>											
14	12034014-Cut	18.0	4110 - Sugar Maple Association	Poletimber Well	93	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70 BA removing the poorest formed trees. Retain white pine. As explained in Compleat Marker, leave obvious den/cavity trees when marking for WLD</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 /2021</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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17	12034017-Cut	56.6	4119 - Mixed Northern Hardwoods	Poletimber Well	93	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Target BA around 70, removing poorly formed trees. Focus on white birch and red maple removal. Cut all aspen to promote in stand diversity. Do not cut hemlock, white pine, red pine, cedar (if found). As expounded in Compleat Marker, retain representation of all species within stand.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

18	12034018-Spray	27.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	Other - Specify	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2020 regen indicates forest health issues. will need to consult forest health specialist. may need to start over
Specs: stand may be sprayed due to insect concerns

Next Step Monitoring, Artificial Regen(3yr); Planting, Interplant; Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/22/2020

19	12034019-Cut	17.8	4319 - Mixed Upland Forest	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Final harvest 2' dbh and up except cedar, pine, hemlock (if found). Will spec out leaving small clumps of 1 stick and less spruce/fir as available (majority of which is already dead to SBW) Likely to be winter harvest. Protect drainage on east end of stand. Leave some scattered white and yellow birch

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable mixed aspen, mixed hardwood, mixed softwood
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	12034021-Spray	117.6	320 - Upland Shrub	Nonstocked	0	Unspecified	Pesticide	Other - Specify	4211 - Planted Red Pine	Even-Aged	No
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Prescription This stand needs spraying due to insects
Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Interplant
Treatments:

Acceptable
Regen:

Other Treatment on hold because of insect problem.
Comment:

Site Condition

Proposed Start Date: 1 /14/2021

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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
33 12034033-Spray	13.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	Other - Specify	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> stand may be sprayed due to insect concerns <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Interplant; Monitoring, Artificial Regen(1yr) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Treatment on hold because of insect problem.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/8 /2020</p>										
35 12034035-Cut	59.3	4130 - Aspen	Poletimber Well	55	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" and up except pine, oak (if found), cedar. Leave some ironwood along stand boundary. Retain small clumps of 1 stick and <u>Specs:</u> less spruce/fir throughout stand, where/when available.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed conifer, mixed hardwood, pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
36 12034036-Cut	20.3	42110 - Planted Red Pine	Sawtimber Well	82	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 1/3; there are pockets of 240 BA. Leave oak if found <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> I did not see oak in here</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
38 12034038-Cut	19.1	42110 - Planted Red Pine	Sawtimber Well	82	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin by 1/3. There are pockets of 180 BA and some of 110. Retain WP and oak if found. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44	12034044-Cut	19.9	4130 - Aspen	Sawtimber Well	47	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all stems 2" and greater except white pine, red pine, oak, hemlock if found. Retain small clumps of 1 stick and less spruce and fir</p> <p><u>Specs:</u> where available (much of it has been killed by SBW)</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed aspen, mixed hardwood, mixed softwood</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 /2021</p>											
49	12034049-Cut	102.8	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80 favoring quality stem trees. Remove all aspen to encourage sprouting to add diversity, except mark with orange 'X' those aspen to retain for wildlife trees. Leave obvious den cavity trees.</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 /2021</p>											
52	12034052-Cut	17.3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	82	Unspecified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest 2" and up; drainage on far east excluded. Cedar pockets will be excluded. Connect the center and south east cedar patches, leave a 2chain wide corridor along the east side that contains drainage on north side of Road (this is already reflected in treatment boundary). Leave 2 stick and less Sp/Fir where available (Spruce budworm has eliminated most of the Spr/Fir in this area.</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, tamarack, mixed conifer, mixed hardwood</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 /2021</p>											
55	12034055-Cut	47.6	4130 - Aspen	Poletimber Well	47	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater except red pine, white pine, oak, hemlock if found. Retain small clumps of 1 stick and less spruce/fir as available.</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> mixed aspen, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Not much spruce/fir of this size is left in the stand. Heavy hazel; cruise leaf off!</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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

5	12034007-Cut	42.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	53	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 2" spec. Leave hemlock, Pine and Cedar .Leave spruce and balsam that are 1 stick and less. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Fir, Mixed Conifers, Mixed Deciduous <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 6 /12/2017</p>											
50	12034050- Monitor	28.9	4110 - Sugar Maple Association	Sawtimber Well	93	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> why do we need RX to monitor?? <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwoods <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 8 /1 /2018</p>											
13	12034065-Cut	50.1	4134 - Aspen, Spruce/Fir	Sawtimber Medium	67	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 2" spec. Leave Cedar and Pine. Leave spruce and balsam that are 1 stick and less. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Aspen, Fir, Pine, Mixed Conifers, Mixed Deciduous <u>Regen:</u></p> <p><u>Other</u> Make sure treatment follows low ground type line. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 6 /12/2017</p>											

Total Treatment 720.7
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 34
 Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2G	2H	3J	5A	5E
1225	1210	0	15	Aspen	2		3		10
371	122	0	249	Cedar			8	241	
9	9	0	0	Herbaceous Openland					
25	25	0	0	Jack Pine					
184	184	0	0	Low-Density Trees			0		
46	46	0	0	Lowland Aspen/Balsam Poplar					
774	95	0	679	Lowland Conifers	564		114		2
106	101	0	4	Lowland Shrub			4		
86	71	0	15	Mixed Upland Deciduous		15			
548	548	0	0	Northern Hardwood					
72	72	0	0	Red Pine					
18	18	0	0	Upland Mixed Forest					
118	118	0	0	Upland Shrub					
7	7	0	0	Upland Spruce/Fir					
4	4	0	0	Urban					
21	10	0	11	White Pine			11		
3,614	2,639		975	Total Forested Acres	566	15	141	241	12
	73%		27%	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)	12	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: portion of this was left for retention							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is entirely within 300 foot buffer to trout water							

Report 4 – Site Conditions

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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	506	4A: No Markets Available for these Forest Products	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	110	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: stand is surrounded by cedar and swamp; most of mature (harvestable) timber is dead and stand is currently regenerating.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5A: Not able to obtain desirable regeneration	241	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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 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	42200 - Natural White Pine	Sawtimber Well	12.9	95	111-140	N/A	Most of the aspen is in far south. Couple cedar trees. Most of balsam and white spruce are dead; may want to see if anyone would be interested in a salvage to clean up the dead trees.																																													
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2	6229 - Mixed lowland shrub	Nonstocked	28.7		Unspecified	No																																														
3	6120 - Lowland Cedar	Poletimber Well	112.0	105	Unspecified	N/A	OI Stand Year Origin was 1916																																													
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4	42110 - Planted Red Pine	Poletimber Well	32.4	72	111-140	N/A	OPIC - FMD: No Mad TS cut 2013																																													
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5	4134 - Aspen, Spruce/Fir	Sawtimber Well	26.8	53	Unspecified	N/A	Majority of Aspen is 49 years old with some pockets of older Aspen found throughout. Spruce and Fir is showing mortality due to Spruce Budworm.																																													
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6	6112 - Lowland Aspen	Sapling Well	9.3	25	Immature	N/A	Old inventory says cut 1996. Aspen diameters range 1-6". Quite wet.																																													
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7	4130 - Aspen	Sawtimber Well	29.4	53	Unspecified	N/A	Wet areas along stand edge.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
8	110 - Low Intensity Urban	Nonstocked	3.9		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																													
9	6111 - Lowland Balsam Poplar	Sapling Medium	22.7	25	Immature	N/A	Gravel Pit TS cut 1996. Center of stand is primarily tag alder. Drainage flows east/northeast																																													
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10	4130 - Aspen	Poletimber Well	12.9	44	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1977. Lower ground, more conifer on far east																																													
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11	4130 - Aspen	Sapling Well	87.8	19	Immature	N/A	Center Section TS cut 2002. Thick, healthy stand. Fire in 2015 burned from private land onto State (~9acre) to cause the different age in the northwest corner (due northeast off private)																																													
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12	6124 - Lowland Spruce-Fir	Poletimber Well	75.8	59	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1962																																													
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13	4134 - Aspen, Spruce/Fir	Sawtimber Medium	52.5	67	Unspecified	N/A	Aspen, Birch, Fir, and Spruce are all in decline. Much mortality throughout entire stand. Small pocket of younger Aspen in middle of stand. Scattered supercanopy Pines.																																													
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14	4110 - Sugar Maple Association	Poletimber Well	18.2	93	111-140	N/A	Princess pine throughout; more ironwood and hazel on west half. Fair amount of defect (cankers, broken forks, sugar maple borer).																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4130 - Aspen	Sapling Well	80.0	11	Immature	N/A	Wagon Trail TS cut Dec 2010. Regenerating well despite some of the old openings in the original sale.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		84	Sapling	1	11		
Sugar Maple		10	Sapling	1			
Red Maple		5	Sapling	1			
Balsam Fir		1	Sapling	2			
16	42200 - Natural White Pine	Poletimber Poor	8.1	47	51-80	N/A	This has filled in with haphazard planting and the Lone Pine seeding.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		85	Pole/Log	8	47		
Red Pine		10	Pole	8			
Jack Pine		5	Pole	7			
17	4119 - Mixed Northern Hardwoods	Poletimber Well	57.0	93	111-140	N/A	White birch not holding up well for the most part; leave those that appear healthy. A lot of cracks, forks, holes and poor quality yet there's potential quality stems too. Cut all aspen (these are in small pockets) to add diversity within the stand. Average BA is 129 from 11 points.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		40	Pole/Log	9	93		
Basswood		10	Log/Pole	10			
Red Maple		30	Pole/Log	9			
Paper Birch		15	Pole	9			
Quaking Aspen		5	Log/Pole	11			
Sub-Canopy Species		Density	Avg. Height	Size			
Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub			
Balsam Fir		Low	Variable	Sapling			
White Spruce		Low	Variable	Sapling			
18	330 - Low-Density Trees	Nonstocked	28.1	0	Unspecified	4211 - Planted Red Pine	All sprayed 2014, then trenched 2015. Red pine planted 2016 in 3 rows, skipping every 4th. Was release sprayed fall 2017. WP planted in every 4th trench, 2018. All under FTP 13-1171.2018 regen surv results – NOTE: 600 TPA = FULLY-STOCKED St 17 – TPA = 531 RP + 104 WP = 635 TPA, fully- stocked on 68.2% of stand area
19	4319 - Mixed Upland Forest	Poletimber Well	17.9	46	81-110	N/A	Stand Year Origin was 1975. Seepy/soft in NE corner and further south. Treatment will be reduced to stay out of wettest areas; may be a winter harvest.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		40	Pole	8	46		
Sugar Maple		15	Log/Pole	10			
Red Maple		20	Pole	7			
White Spruce		10	Pole	9			
Quaking Aspen		15	Log/Pole	12			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	Variable	Sapling			
20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.4	93	81-110	N/A	Wolf Den TS cut 2013. Princess pine in south half; balsam & ironwood on south 1/3 of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		55	Log/Pole	10	93		
Red Maple		40	Log/Pole	10			
Paper Birch		5	Log/Pole	10			
Sub-Canopy Species		Density	Avg. Height	Size			
Ironwood		Medium	Variable	Sapling			
Balsam Fir		Low	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	320 - Upland Shrub	Nonstocked	117.6	0	Unspecified	4211 - Planted Red Pine	Thinned initially, final harvest due to severe budworm (Winter Spruce Salvage 2012 cut). Plant red pine 750 tpa; between 5-10 years, interplant white pine 150-200 tpa. 10/10/19: needs a follow up exam to determine adequate stocking
22	4130 - Aspen	Sapling Well	23.5	11	Immature	N/A	Wagon Trail TS cut 2010
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	75	Sapling	1	11	
		Balsam Poplar	25	Sapling	1		
23	4130 - Aspen	Sapling Medium	14.1	5	Immature	N/A	McSchwartz SBW cut in 2016 (OOYOE budworm salvage). Bit sparse with more raspberries on west end.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	85	Sapling	1	5	
		Balsam Poplar	15	Sapling	1		
24	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	505.7	100	Unspecified	N/A	There is a small island of upland in north/north east but it is mostly red maple saplings as the white spruce died out. It's a pretty ugly swamp: hummocks, deep moss, no deer trails, stunted trees. Mistletoe on black spruce down to 4" dbh.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Northern White Cedar	40	Pole	8	100	
		Black Spruce	30	Pole/Sapling	5		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Alder	Medium	5 - 10 feet	Tall Shrub		
25	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	70.7	56	81-110	N/A	Upland cedar on far east edge will go toward retention. Most of the balsam is dead. Lots of wet pockets; vernal in south central will be buffered. Some young birch on far east edge in north will also be left. Most of aspen is scattered on stand edges.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	47	Pole/Log	8	56	
		Balsam Fir	20	Pole	8		
		White Spruce	5	Log/Pole	12		
		Yellow Birch	1	Log/Pole	10		
		Balsam Poplar	4	Pole	8		
		Black Spruce	1	Pole	6		
		Paper Birch	15	Pole	8		
		Northern White Cedar	2	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	5 - 10 feet	Sapling		
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	127.6	93	81-110	N/A	Wolf Den TS cut 2013. Lots of sugar maple saplings 0.5-1.0' tall browsed hard. Most of larger white birch is dead. Some nice trees but many with cracks, forks, hole. No basswood! a very few SM saps over 10'. South edge of stand had more white birch, red male, hazel, fir.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Sugar Maple	65	Pole/Log	9	93	
		Red Maple	30	Log/Pole	10		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Sugar Maple	Medium	< 5 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
27	4130 - Aspen	Sapling Well	31.6	11	Immature	N/A	Wagon Trail TS cut 2010. Couple white birch seedlings along road, plenty of cherry mixed in.																																																
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28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.9	85	Unspecified	N/A	OI Stand Year Origin was 1936. Wet, was left as retention for the cut in stand 27.																																																
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32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	110.3	89	Unspecified	N/A	Stand has an intermittent stream flowing southerly through stand. Some pockets of dead tamarack from EAB.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
33	330 - Low-Density Trees	Nonstocked	14.0	0	Unspecified	4221 - Natural Red Pine	All sprayed 2014, then trenched 2015. Red pine planted 2016 in 3 rows, skipping every 4th. Was release sprayed fall 2017. WP planted in every 4th trench, 2018. All under FTP 13-1171St 37 – TPA = 477 RP + 55 WP = 532 TPA, moderately stocked overall, Just under fully stocked overall but about 67% of stand area is fully-stocked. Again, WLD may want to add oak, otherwise we check again next year and decide if we need more RP.																																																	
34	4130 - Aspen	Poletimber Medium	103.6	39	Unspecified	N/A	Aimone Block TS cut 1982. Autumn olive scattered through stand. 10-14" aspen on south edge and scattered. Tag swales in far north. Open areas with cherry and conifers around edges.																																																	
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36	42110 - Planted Red Pine	Sawtimber Well	20.3	82	141-170	N/A	Stand Year Origin was 1939. Red pine is 12-16" dbh with a couple 18". Thinned 2003. Crowns are somewhat small.																																																	
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37	4130 - Aspen	Sapling Well	7.2	8	Immature	N/A	NoMad TS cut 2013																																																	
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38	42110 - Planted Red Pine	Sawtimber Well	19.1	82	141-170	N/A	OI Stand Year Origin was 1939. Some autumn olive in stand on west edge. This stand is more open than the plantation north. Thin to 100 but not more than 1/3 BA																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4130 - Aspen	Sapling Well	45.1	8	Immature	N/A	No Mad TS cut 2013. Some jack pine are seeding in.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		70	Sapling	2	8		
Bigtooth Aspen		10	Sapling	2			
Balsam Poplar		5	Sapling	2			
Sugar Maple		15	Sapling	1			
40	42120 - Planted Jack Pine	Poletimber Well	25.2	38	111-140	N/A	Stand Year Origin was 1983. Red pine mostly in north finger. Jack pine is very limby to ground.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		95	Pole	8	38		
Red Pine		4	Log/Pole	14			
White Spruce		1	Pole	7			
Sub-Canopy Species		Density	Avg. Height	Size			
Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub			
White Spruce		Medium	Variable	Sapling			
41	622 - Lowland Shrub	Nonstocked	26.8		Unspecified	No	OPIC - FMD: OI Stand Year Origin was
42	6120 - Lowland Cedar	Poletimber Well	259.4	107	Unspecified	N/A	Diameters decrease further south you go into stand. Mistletoe on black spruce in northwest. Upland black spruce/white spruce on edge of far west finger. Much of balsam is dead.
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		60	Pole/Log	9	107		
Black Spruce		20	Pole	8			
Tamarack		15	Pole	9			
White Spruce		5	Log/Pole	10			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	Variable	Sapling			
Tag Alder		High	5 - 10 feet	Tall Shrub			
Tamarack		Low	5 - 10 feet	Sapling			
43	4130 - Aspen	Sapling Well	147.7	31	Immature	N/A	Rocky Road TS cut 1990. Variable stand with aspen dbh 3-4" to 8", averaging 5-6" dbh
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Poplar		5	Pole	6			
Balsam Fir		5	Pole	7			
Quaking Aspen		90	Pole/Sapling	6	31		
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium	Variable	Sapling			
Sugar Maple		High	Variable	Sapling			
White Spruce		Low	Variable	Sapling			
Red Maple		Medium	Variable	Sapling			
44	4130 - Aspen	Sawtimber Well	20.7	47	Unspecified	N/A	Larger big tooth/aspen/balm of gilead on south side. Likely a two-aged stand; could be cut now or held.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		5	Log/Pole	12			
Balsam Poplar		5	Pole	9			
Balsam Fir		10	Pole	8			
Sugar Maple		5	Pole	9			
Basswood		2	Log/Pole	12			
Quaking Aspen		73	Log/Pole	10	47		
Sub-Canopy Species		Density	Avg. Height	Size			
Sugar Maple		Low	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
45	4119 - Mixed Northern Hardwoods	Poletimber Well	56.8	93	81-110	N/A	Long Road Contract TS cut 2013																																														
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46	4130 - Aspen	Poletimber Well	11.0	43	Unspecified	N/A	A few red pine around opening.																																														
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48	4130 - Aspen	Poletimber Well	22.1	42	Unspecified	N/A	Aspen diameters range from 7-12". Trace amounts of white ash and white birch.																																														
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50	4110 - Sugar Maple Association	Sawtimber Well	28.8	93	51-80	N/A	Stand thinned in 2017 as a MWR research project. All tops 8" and less were left on site. Group selection was treatment where circles were clearcut.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
51	4130 - Aspen	Poletimber Well	27.6	45	Unspecified	N/A	Wet on south edge. Aspen 4-5 sticks.																																																					
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52	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	62.0	82	Unspecified	N/A	Sugar maple saplings north of County road. If cut, cedar pockets will be excluded.																																																					
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54	4110 - Sugar Maple Association	Poletimber Well	13.4	93	81-110	N/A	Long Road Contract cut fall 2012																																																					
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55	4130 - Aspen	Poletimber Well	51.3	47	Unspecified	N/A	Nice clean boles. Hardwood pocket on southcentral line just north of pond.																																																					
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56	4130 - Aspen	Poletimber Well	163.4	40	Unspecified	N/A	Johnsons Camp TS cut 1984.																																					
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57	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	8.5	107	Unspecified	N/A	stand left due to wetness and cedar/balm inclusion																																					
58	4130 - Aspen	Sapling Well	25.9	8	Immature	N/A	No Mad TS cut 2013. Some cherry coming in. Aspen 10-15 ft tall, shorter in low areas along southeast																																					
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59	6111 - Lowland Balsam Poplar	Sapling Well	13.7	27	Immature	N/A	String Sale TS cut 1994. Has bed/bank along far east. Trace amounts of cherry. Wild roses along road																																					
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60	6220 - Alder/willow	Nonstocked	9.9	0	Unspecified	No																																						
61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	15.3	100	Unspecified	N/A	This is a small island of upland in north/north east but it is mostly red maple saplings as the white spruce and balsam died out.																																					
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66	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.1	53	Unspecified	N/A	Stand cut Tbone TS summer 2019																																					
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401	3303 - Mixed Low Density Trees	Nonstocked	25.8		Unspecified	Managed Opening	This opening is really filling in and is actually nearly stocked with minimal trees.																									
402	3303 - Mixed Low Density Trees	Nonstocked	13.3		Unspecified	Managed Opening																										
403	330 - Low-Density Trees	Nonstocked	43.4	0	Unspecified	No																										
404	330 - Low-Density Trees	Nonstocked	23.0		Unspecified	Managed Opening																										
405	31021 - Cool Season Grass	Nonstocked	6.1		Unspecified	No																										
406	330 - Low-Density Trees	Nonstocked	35.7		Unspecified	No	OPIC - FMD: Opening does not need treatment this YOE. OI Stand Year Origin was																									
407	3102 - Grass	Nonstocked	3.0		Unspecified	Managed Opening	OPIC - FMD: OI Stand Year Origin was																									