



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12052

Entry Year 2022

Acreage: 1,564

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2020-05-01

Stand Examiner: Jacob Siler

Legal Description:

T43N, R29W Sections 25, 26, 27, 34, 35, 36

Identified Planning Goals:

The goal in this compartment is to continue sustainable forest management. Aspen has a fairly good age-class distribution already established. The hardwoods will be managed on a regular rotation. The compartment is roughly 1/4 hardwoods. A mix of large and small lowland stands are present throughout the compartment.

Soil and topography:

The majority of this compartment is flat to gently rolling hills with some rock bluffs which prove to be inaccessible for harvesting. There is a fair amount of lowland areas. There is well drained Emmet and Pemene sandy loams in the uplands and Carbondale and Cathro mucks dominate the lowland types.

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

Most of this compartment consists of State land with a small amount of private and industrial land mixed in. There is a fair amount of hunting and other recreation including snowmobiling on the main road system through the compartment.

Unique Natural Features:

The Sturgeon River is a nice natural feature on the south side of this compartment and it flows out of Gene's Pond.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None known.

Watershed and Fisheries Considerations:

The Sturgeon River flows on the south edge of the compartment. There are also several unnamed creeks flowing north and south.

This compartment runs along the East Branch of the Sturgeon River which is designated a Type 1 trout stream less than 50' in width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. There are also unnamed flooding areas that drain into Gene's Pond. 100' buffers are recommended around these areas.

Wildlife Habitat Considerations:

Compartment 52 is located north and west of Gene's Pond in north central Dickinson County. The compartment is divided north and south by the Elf line and east to west by gas pipelines which adds to the opening component. Turkeys, deer, songbirds, raptors and other animals take advantage of this grass type. 50% of the compartment is aspen with fairly good distribution, 30% is swamp conifer that should be maintained for cover.

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 Formation and Precambrian Michigamme and Randville Dolomite subcrop below the glacial drift. The Randville is used as a dimension stone. The other formations do not have a current economic use. The topo indicates a rock (Randville?) quarry is located 1/2 mile to the south. Groveland Iron mine is located approximately seven miles to the southwest. Section 35 was previously leased for metallic exploration and potential may still exist. A gravel pit is indicated two miles to the east. There should be gravel potential. There is no economic oil and gas production in the UP currently.

Vehicle Access:

Pirlot road is the primary access road into this compartment to the north. To the south the primary access road would be the north portion of the Wells Grade that crosses the Sturgeon river.

Survey Needs:

Most corners are established but some corners will be needed for upcoming treatments.

Recreational Facilities and Opportunities:

Snowmobiling, deer, grouse, and turkey hunting, fishing, and potential for most other recreational opportunities.

Fire Protection:

Any office in the Crystal Falls FMU may cover for fire protection.

Additional Compartment Information:

This compartment contains the old ELF line, now abandoned, which runs to the north and south.

The following reports from the Inventory are attached:

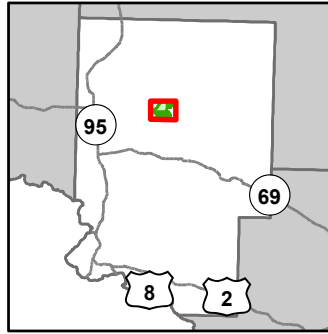
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

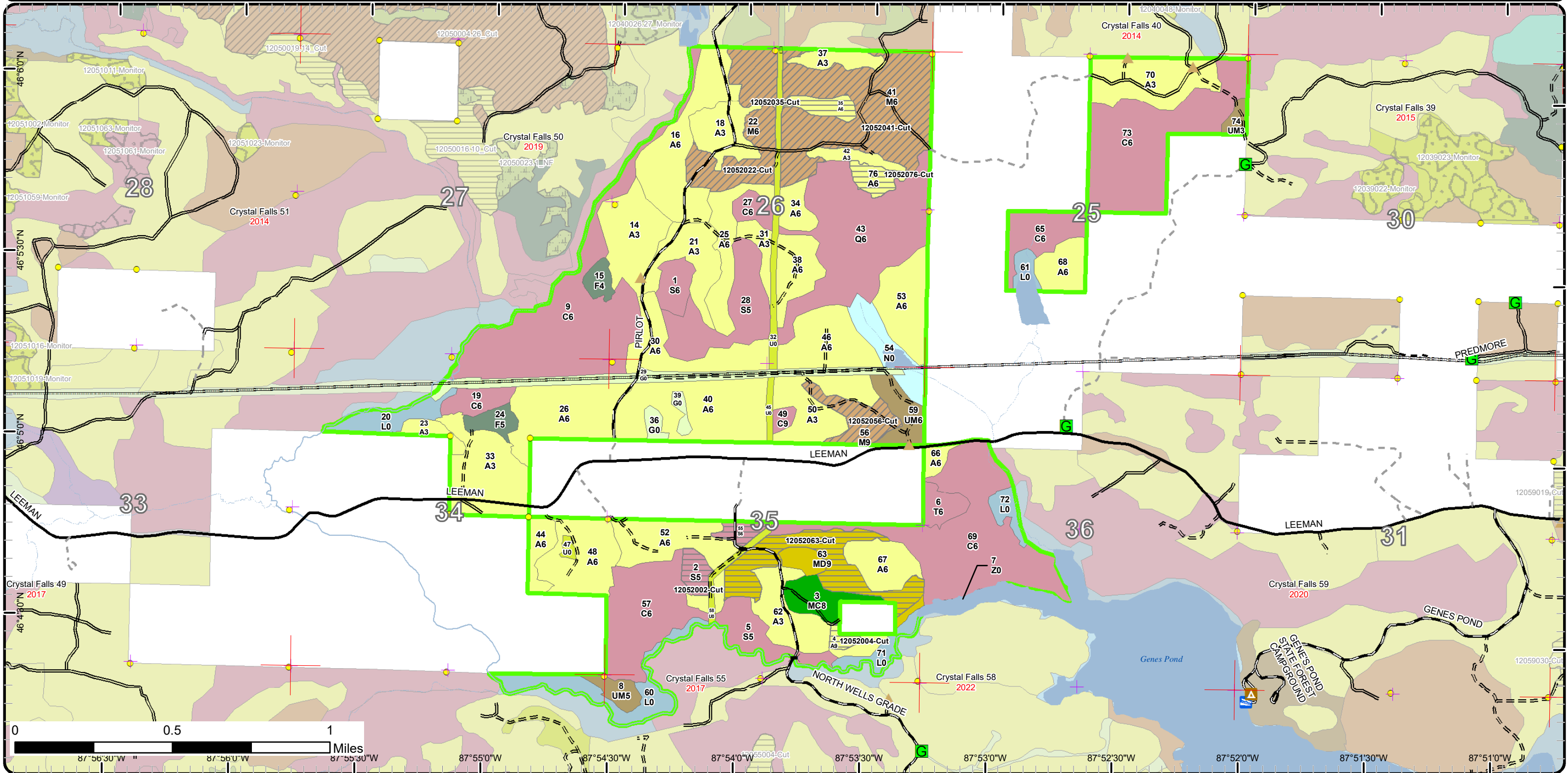
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 52
 T43N, R29W, Sec. 25-27, 34-36
 T42N, R29W, Sec. 2, 3
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2022
 Acres: 1564.5 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 1/22/2021
 Map Phase: Post-Review

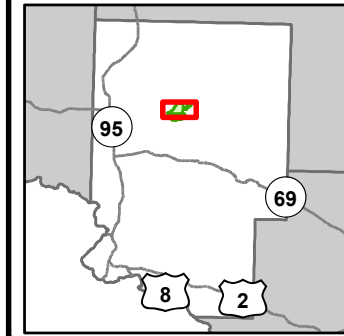


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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ● Survey Grade Corners --- Counties — DNR - Primary Forest Road — DNR - Secondary Forest Road == DNR - Forest Access Route — Federal / State / County - Paved Road - - Private - Dirt / Gravel Road ▲ Berms Ⓜ Gate Ⓜ Boating Access Site Ⓜ Bridges ▲ Campground | <ul style="list-style-type: none"> --- Intermittent Stream --- Lake/Pond --- Perennial River --- Lakes and Rivers --- Pipeline ▭ Compartment Boundary ▭ Clearcut (w/Reserves) ▨ Thinning (Crown, Low, Systematic) ■ 411 - Northern Hardwood ■ 413 - Aspen ■ 419 - Mixed Upland Deciduous ■ 422 - Natural Pines ■ 423 - Other Upland Conifers ■ 430 - Upland Mixed Forest ■ 612 - Lowland Coniferous Forest | <ul style="list-style-type: none"> ■ 310 - Herbaceous Openland ■ 330 - Low Density Trees ■ 500 - Water ■ 622 - Lowland Shrub ■ 623 - Emergent Wetland |
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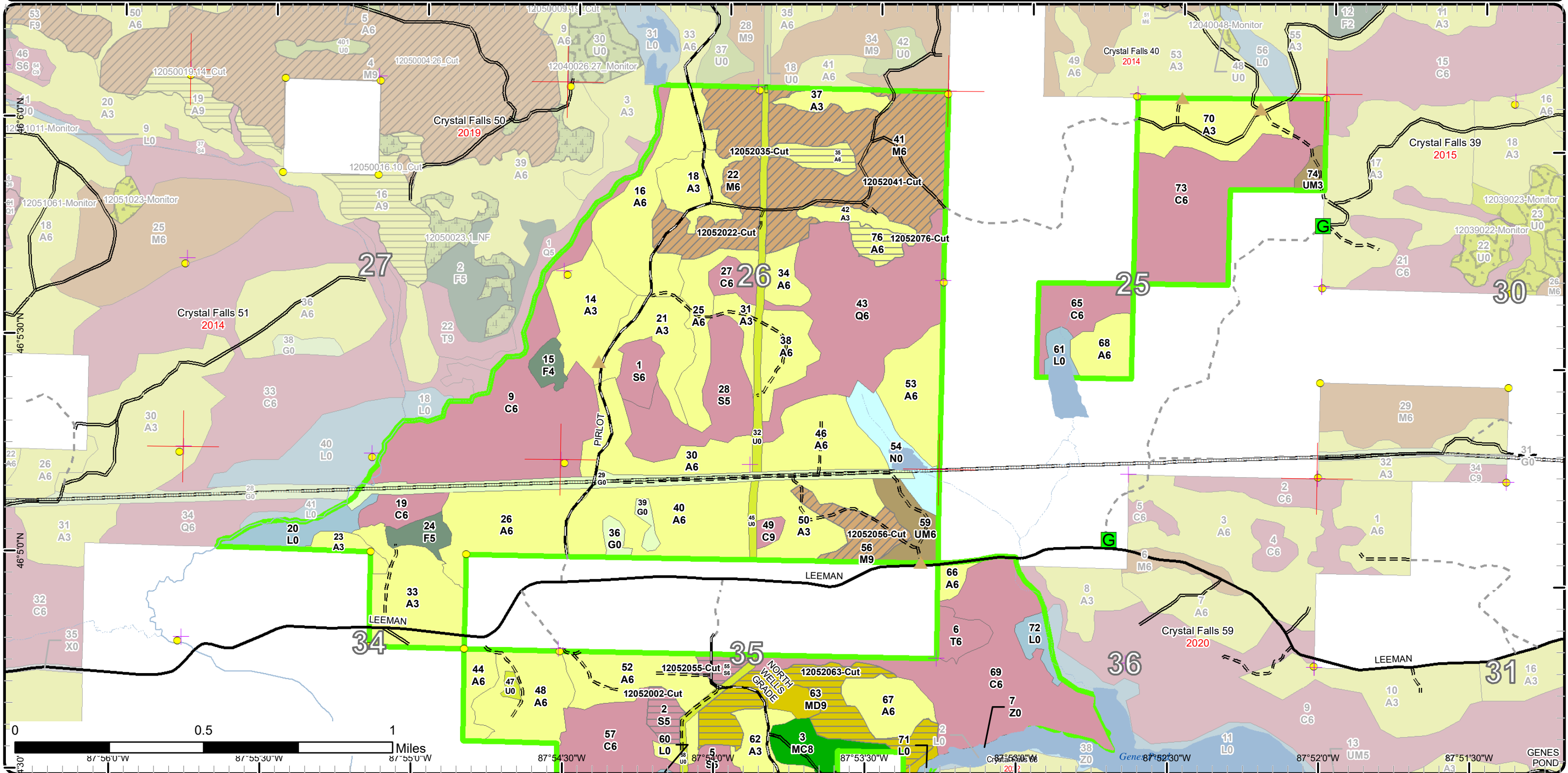


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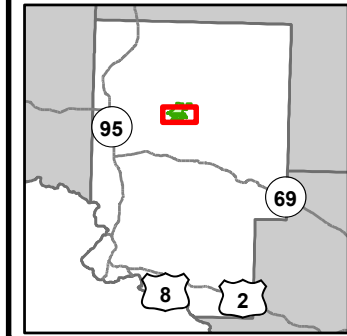


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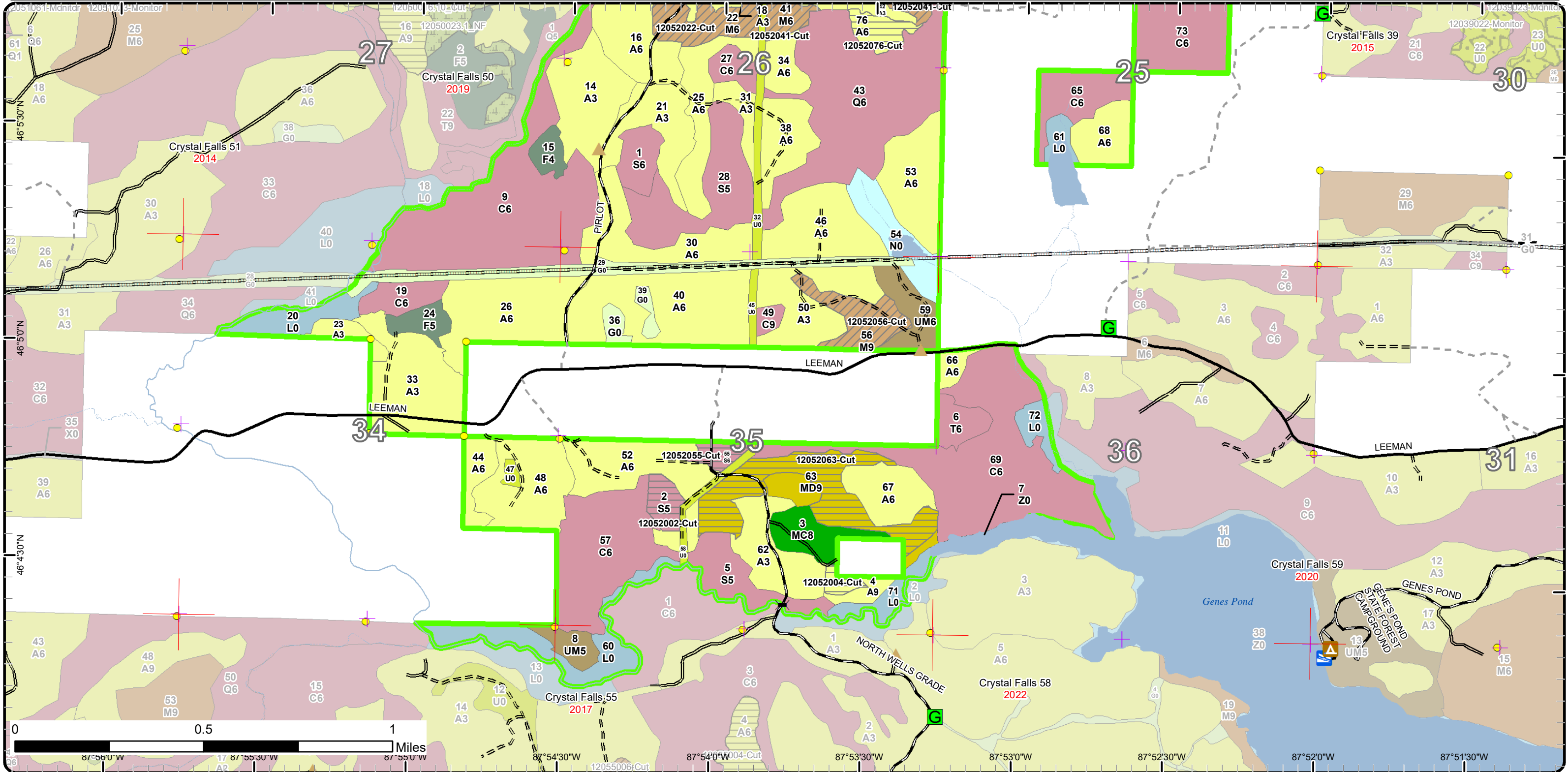


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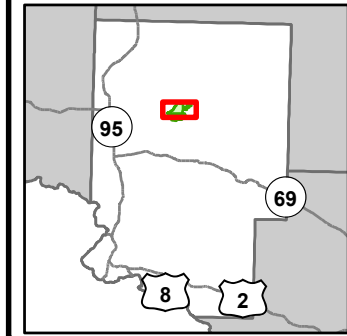


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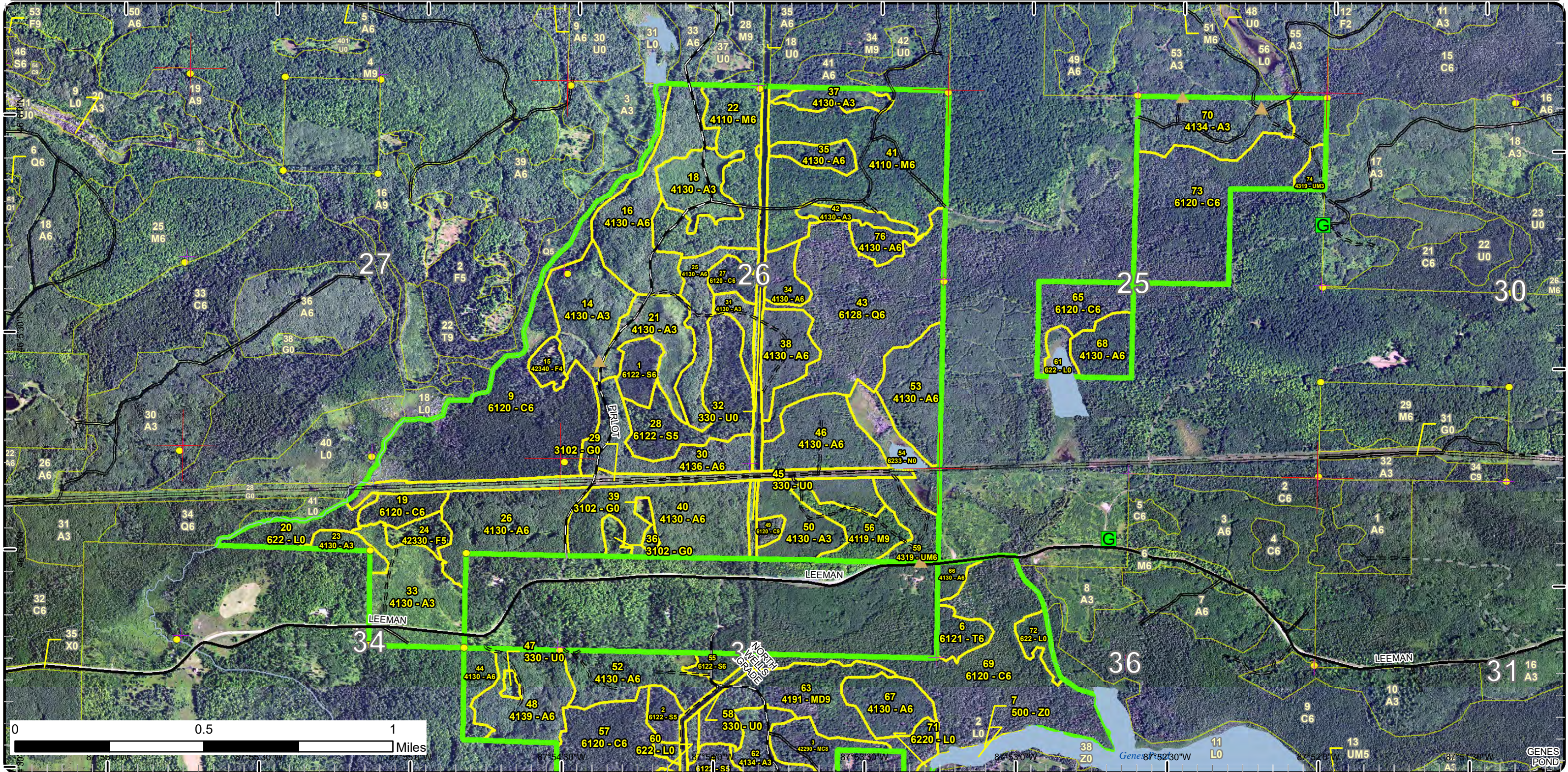


Stand Boundary Map

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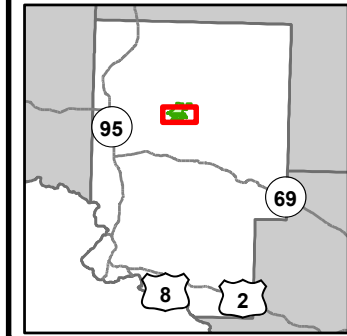


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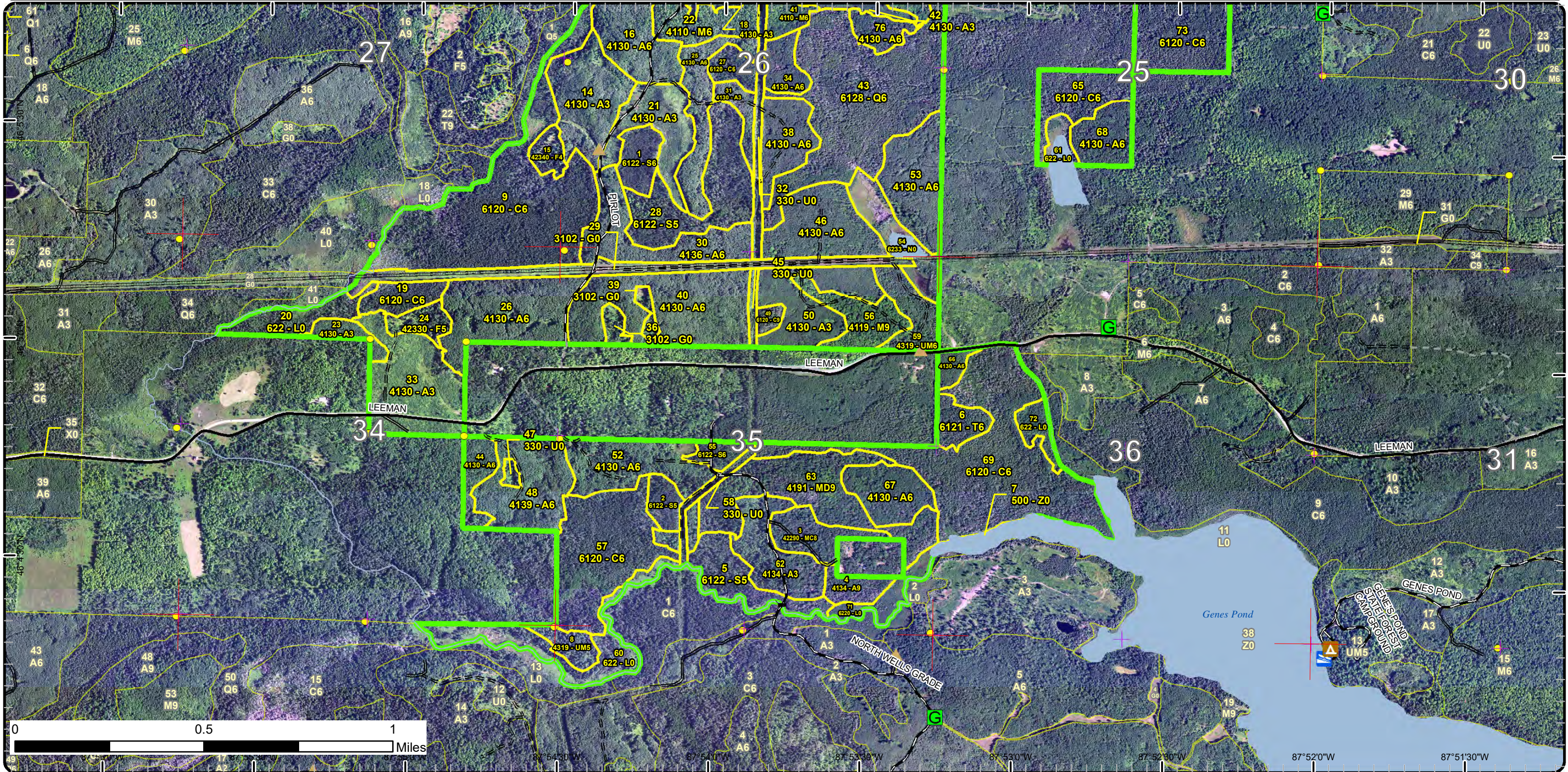


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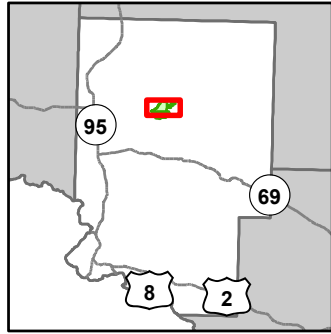


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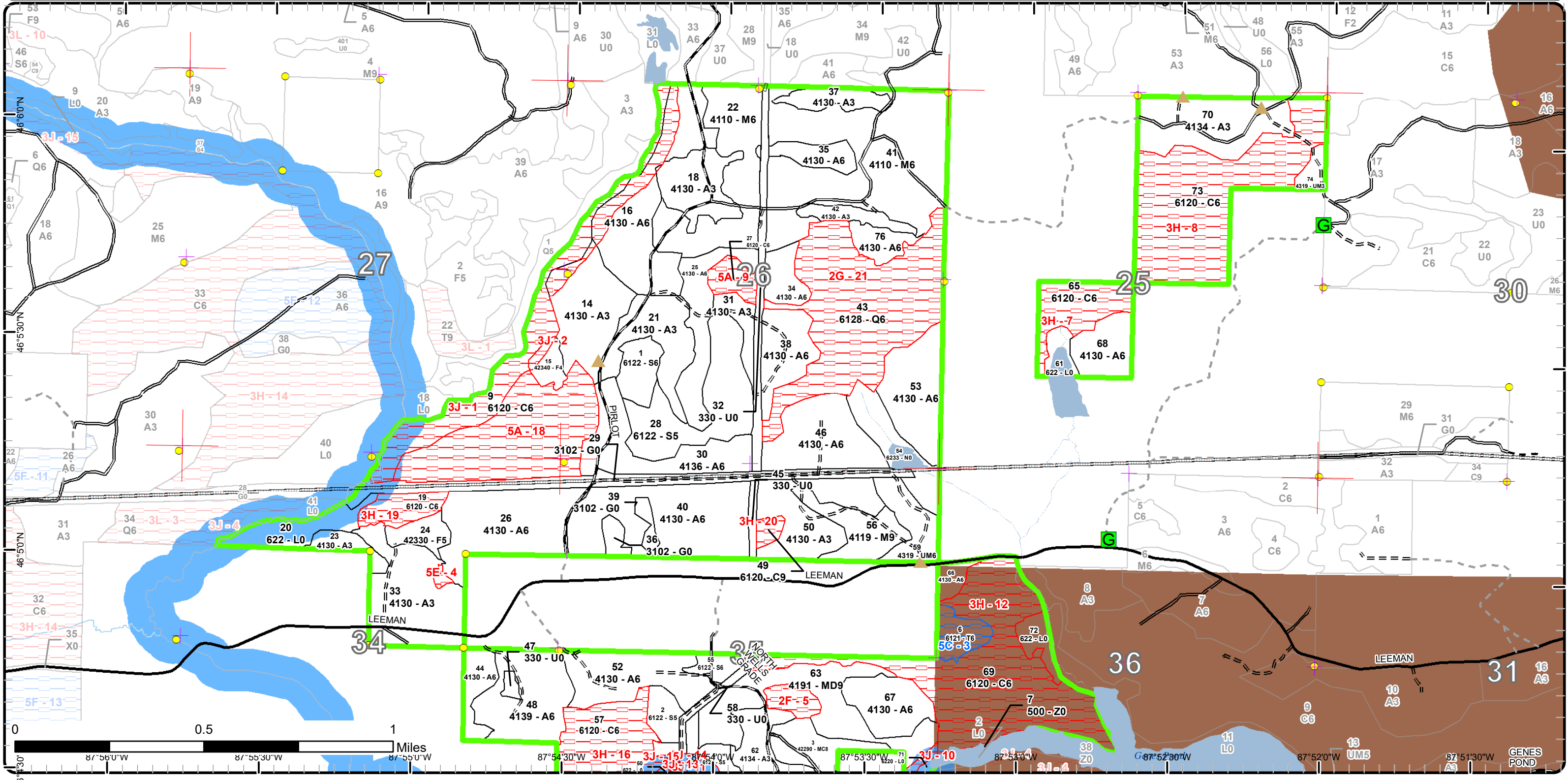


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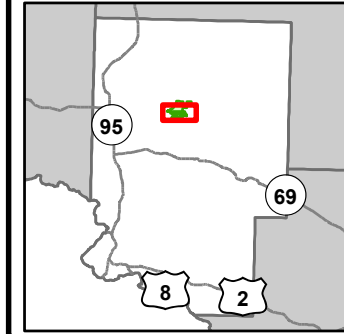


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Wildlife Management Areas

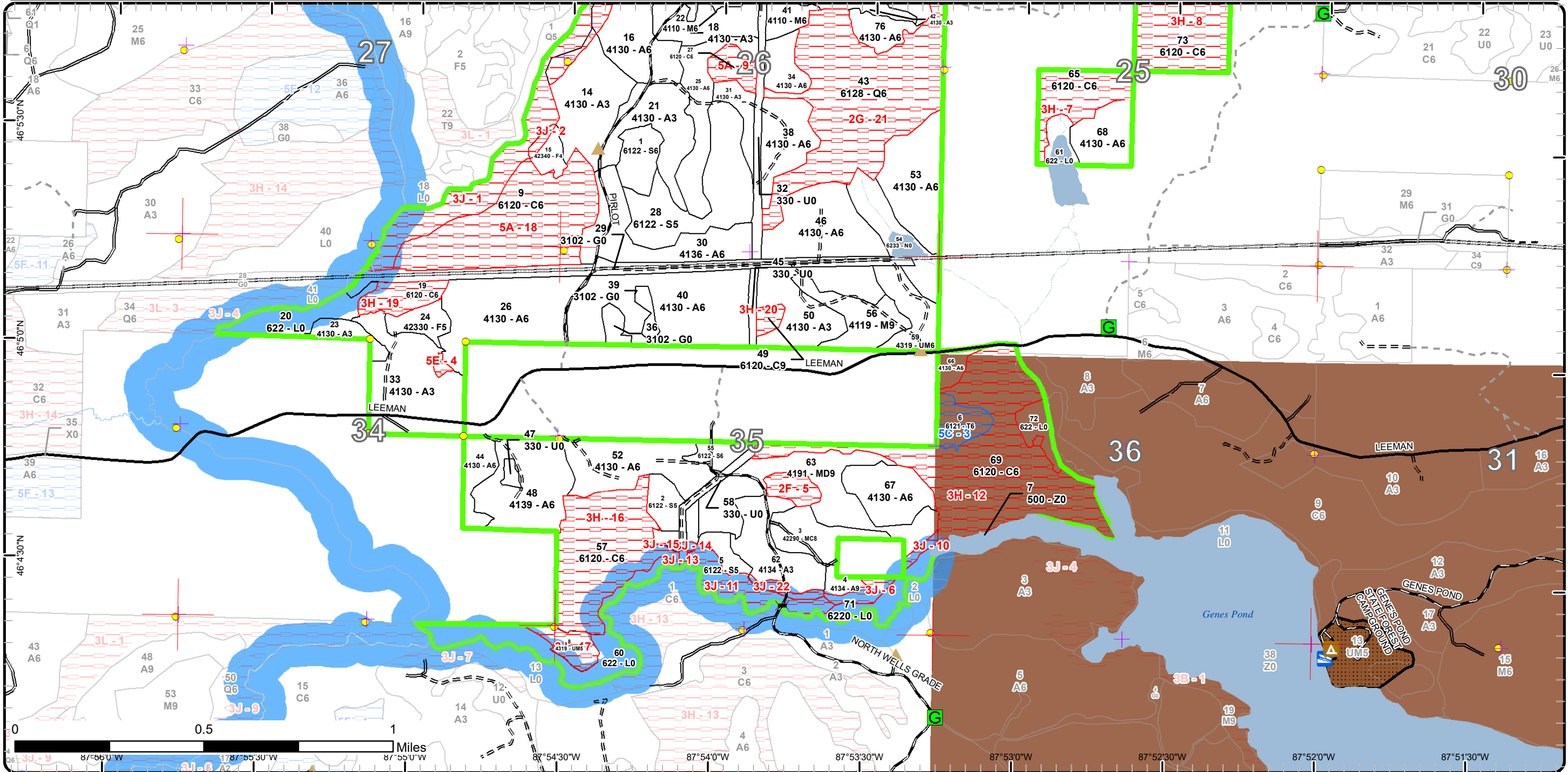


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- State Forest Campground



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	100	0	118	327	74	9	8	8	0	0	0	0	0	0	0	0	0	643
Cedar	0	0	0	0	0	0	0	0	0	0	0	253	105	0	0	0	0	0	358
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Low-Density Trees	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	87	0	0	0	0	0	87
Lowland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Spruce/Fir	0	0	0	0	0	0	0	16	0	0	27	0	0	0	0	0	0	37	80
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	47
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	14
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	130	0	0	0	0	0	0	17	147
Tamarack	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	8	27
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	141	100	0	118	346	74	9	8	71	0	0	419	192	0	0	0	0	90	1566



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 52
Total Compartment Acres: 1,564

Commercial Harvest - 218
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	20	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	39	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	147	0	0	0	147
Total	72	0	0	0	0	147	0	0	0	218

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	218	0	0	0	0	0	0	0	0	218
Next Step	0	0	0	0	0	0	72	0	0	72
Total	218	0	0	0	0	0	72	0	0	290



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

2	12052002-Cut	7.0	6122 - Black Spruce	Poletimber Medium	101	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> black spruce, tamarack, red pine, white pine, jack pine, aspen and cedar <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
4	12052004-Cut	3.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	71	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all tree 2 inches and greater. Do not cut white pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, pine, maple <u>Regen:</u> <u>Other</u> East branch of sturgeon river should be buffered 300ft. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /22/2020</p>											
22	12052022-Cut	41.0	4110 - Sugar Maple Association	Poletimber Well	101	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to a basal area of 80. Cut all aspen. Leave all hemlock if found. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> northern hardwood associates <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <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
35 12052035-Cut	8.5	4130 - Aspen	Poletimber Well	50	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees with 1 or more pulpwood sticks; 4.6 inches and greater at DBH. Do not cut cedar, balsam fir and hemlock if found.</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, maple, ash and cherry</p> <p><u>Regen:</u></p> <p><u>Other</u> No long-term retention; stand is less than 10 acres in size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
41 12052041-Cut	89.1	4110 - Sugar Maple Association	Poletimber Well	101	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to a basal area of 80. Cut all aspen. Leave all hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood associates</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 12052055-Cut	5.4	6122 - Black Spruce	Poletimber Well	79	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar, red pine and white 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> black spruce, tamarack, cedar & jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to small stand size</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
56 12052056-Cut	16.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	94	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark to a basal area of 70 to 80. Retain cedar, hemlock and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood associates</p> <p><u>Regen:</u></p> <p><u>Other</u> North/west portion of stand has a lower BA. Portion of stand along private to the west has a high percentage of poles. Treatment size may or</p> <p><u>Comment:</u> may not be reduced during prep.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
63 12052063-Cut	39.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees with 1 or more pulpwood sticks. Green tree 15 red pine trees for retention. Do not cut cedar, white pine, black spruce or hemlock</p> <p><u>Specs:</u> if found.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, paper birch, maple, jack pine, red pine, white pine, spruce and balsam.</p> <p><u>Regen:</u></p> <p><u>Other</u> East branch of Sturgeon River 300ft buffer. Buffer Genes Pond 100ft buffer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
76 12052076-Cut	7.9	4130 - Aspen	Poletimber Well	61	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Cut spruce and fir with 1 or more pulp sticks. Do not cut pine, cedar and hemlock if found. No long-term</p> <p><u>Specs:</u> retention; stand is under 10 acres.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, birch</p> <p><u>Regen:</u></p> <p><u>Other</u> Wet seep located in the south central portion of stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 218.2
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				5C	2F	2G	3H	3J	5A	5E	
642	619	0		23	Aspen					22			1
358	0	0		358	Cedar				252	38	68		
34	34	0		0	Herbaceous Openland								
23	22	0		1	Low-Density Trees					1			
87	0	0		87	Lowland Conifers			87					
62	62	0		0	Lowland Shrub				0	0			
80	65	0		15	Lowland Spruce/Fir					15			
18	18	0		0	Marsh								
47	39	0		8	Mixed Upland Deciduous		6			2			
14	14	0		0	Natural Mixed Pines								
147	147	0		0	Northern Hardwood								
9	0	9		0	Tamarack	9							
26	19	0		7	Upland Mixed Forest				0	7			
13	12	0		1	Upland Spruce/Fir					1			
4	4	0		0	Water								
1,564	1,055	9		501	Total Forested Acres	9	6	87	252	87	68	1	
	67%	1%		32%	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)	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 52
Year of Entry: 2022



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lots of Tag Alder. Looks like its quite wet. Can hold. Maybe look to treat with stand 66 to the north when silvicultural criteria is met.							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rock Bluff							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' buffer on East Branch of Sturgeon River. Black spruce is also included in this site condition beyond 300'.							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 52
Year of Entry: 2022



9	Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	92	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' Buffer							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' Buffer							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

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Year of Entry: 2022



15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300' Buffer							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	50	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5A: Not able to obtain desirable regeneration	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	87	3J: Water quality / BMPs (stream, river, or lake)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments: Stream running through stand; good portion of stand is too wet for harvest; large amount of cedar. Any areas that could be harvested are small and/or not practical.							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2G: Too wet (sensitive soils, does not include access issues)	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 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	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
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1	6122 - Black Spruce	Poletimber Well	10.5	76	51-80	N/A	Trace amounts of paper birch, cherry, red maple and aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	100	Pole/Sapling	5	76

2	6122 - Black Spruce	Poletimber Medium	7.0	101	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	58	Pole	8	101	Balsam Fir	Trace	Variable	Sapling
Tamarack	40	Log/Pole	10		Black Spruce	Trace	Variable	Sapling
Quaking Aspen	2	Log/Pole	11		Cherry (spp.)	Trace	Variable	Sapling

3	42290 - Natural Mixed Pine	Sawtimber Medium	14.5	71	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	50	Log/Pole/XLog	11	71	Balsam Fir	High	Variable	Sapling
White Pine	20	XLog	18		White Spruce	Low	Variable	Sapling
Quaking Aspen	5	Log/Pole	11		Black Spruce	Low	Variable	Sapling
White Pine	25	Pole	8		Sugar Maple	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Paper Birch	Low	Variable	Sapling
					Quaking Aspen	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Pole
					Red Maple	Low	Variable	Pole
					Paper Birch	Low	Variable	Pole

4	4134 - Aspen, Spruce/Fir	Sawtimber Well	7.8	71	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Log/Pole	11	71	Balsam Fir	Medium	Variable	Sapling
Red Maple	5	Pole	7		White Spruce	Low	Variable	Sapling
White Pine	3	XLog/Log	18		Black Spruce	Low	Variable	Sapling
Paper Birch	2	Log/Pole	11					
Black Spruce	20	Pole	8					

5	6122 - Black Spruce	Poletimber Medium	19.8	101	51-80	N/A	Trace amounts of paper birch, aspen and BAM.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	55	Pole	8	101	Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole	8		Black Spruce	Low	Variable	Sapling
Tamarack	15	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	25	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
6	6121 - Tamarack	Poletimber Well	9.1	101	111-140	N/A																																																			
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7	500 - Water	Nonstocked	4.0	0	Unspecified	No																																																			
8	4319 - Mixed Upland Forest	Poletimber Medium	7.5	71	51-80	N/A	Almost entire stand within Buffer for East Branch of Sturgeon River. Portion of stand looks to be on steep hill that slopes down to the river. There is also a sizable portion of the stand that looks to have little to zero canopy.																																																		
9	6120 - Lowland Cedar	Poletimber Well	99.0	106	141-170	N/A	Trace amounts of white pine, paper birch, cherry, and maple in canopy. Small upland area with old aspen falling out south of (Stand 15 F4). Upland patch is slightly under 5 acres. Basal area variable throughout stand ranging from around 80 to above 200.																																																		
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15	42340 - Upland Spruce/Fir	Poletimber Poor	5.8	53		N/A	Stand is a field filling in with spruce and balsam. Spruce and balsam thicker on the edges. Lots of different ages.																																																		
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19	6120 - Lowland Cedar	Poletimber Well	10.0	106	171-200	N/A	High concentration of black spruce on the west side with lower basal area and canopy closure.																																																																				
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20	622 - Lowland Shrub	Nonstocked	14.2			No	Very wet. Sparse amounts of spruce, BAM, aspen, cedar and balsam fir. Stand runs along a stream.																																																																				
21	4130 - Aspen	Sapling Well	23.7	9		N/A	Trace amounts of super canopy white pine.																																																																				
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22	4110 - Sugar Maple Association	Poletimber Well	41.0	101	111-140	N/A																																																										
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24	42330 - Upland Fir	Poletimber Medium	7.4	42		N/A	Trace amounts of maple and yellow birch in canopy. Very variable BA and lots of dead spruce and fir. Much of this stand is a field with pockets of spruce/fir, smaller trees filling in-between.																																																									
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25	4130 - Aspen	Poletimber Well	21.6	47	Unspecified	N/A	Trace black spruce and yellow birch in canopy.																																																									
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26	4130 - Aspen	Poletimber Well	40.1	36		N/A	Trace amounts of white spruce, paper birch, black spruce and tamarack in canopy. Stand is overall an upland stand. However, there is a small strip of lowland along the northeast edge. A few small opening exists within the stand but they are almost filled in.																																																									
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27	6120 - Lowland Cedar	Poletimber Well	7.0	112	171-200	N/A																																																										
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28	6122 - Black Spruce	Poletimber Medium	37.0	76	51-80	N/A	Trace aspen, red maple and paper birch. Very variable BA.																																																									
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29	3102 - Grass	Nonstocked	27.0		Unspecified	No	pipeline																																																									
30	4136 - Aspen, Mixed Conifer	Poletimber Well	28.9	36		N/A	White pine in supper canopy on north side of stand. Red maple under white pine thick but overall small area.																																																									
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41	4110 - Sugar Maple Association	Poletimber Well	89.1	101	111-140	N/A	Trace amounts of hemlock and white spruce in canopy.																																																								
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42	4130 - Aspen	Sapling Well	6.9	9	Immature	N/A	Trace amounts of cherry, balsam, spruce, red maple and paper birch.																																																								
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43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	87.4	112	51-80	N/A	Very variable BA.																																																								
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44	4130 - Aspen	Poletimber Well	9.6	45	Unspecified	N/A	Small pocket of older aspen and hardwoods on south end of stand. Steep slope down to wet area on the southern edge.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 330 - Low-Density Trees Nonstocked 2.7 Unspecified No Elf Line

46 4130 - Aspen Poletimber Well 29.6 36 N/A Trace amounts of red and sugar maple in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole/Sapling	6	36	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole	8		White Spruce	Low	Variable	Sapling
White Spruce	5	Pole	8		Red Pine	Trace	Variable	Sapling
					Cherry (spp.)	Low	Variable	Sapling
					Red Maple	Trace	Variable	Sapling
					White Ash	Trace	Variable	Sapling

47 330 - Low-Density Trees Nonstocked 1.7 Unspecified No Opening filling in with trees.

48 4139 - Aspen, Mixed Deciduous Poletimber Well 31.6 37 Unspecified N/A Trace cherry, paper birch and pine. 2 acre black spruce pocket near southern edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Sapling	6	37	Balsam Fir	Low	Variable	Sapling
Black Spruce	10	Pole	7		Sugar Maple	Trace	Variable	Sapling
Balsam Poplar	25	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	20	Pole/Sapling	7					
Tamarack	5	Pole/Sapling	7					
Black Ash	10	Pole/Sapling	7					

49 6120 - Lowland Cedar Sawtimber Well 3.0 100 171-200 N/A Trace amounts of maple and paper birch in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	90	Log/Pole	11	100	Tag Alder	Low	5 - 10 feet	Tall Shrub

50 4130 - Aspen Sapling Well 29.4 21 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	3	21	Balsam Fir	Trace	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	3		White Spruce	Trace	5 - 10 feet	Sapling
Balsam Poplar	2	Sapling	3		White Pine	Trace	5 - 10 feet	Sapling
Red Maple	3	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4130 - Aspen Poletimber Well 33.4 37 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	64	Pole/Sapling	6	37	Balsam Fir	Medium	Variable	Sapling
Red Pine	3	Log/Pole	15		Black Spruce	High	Variable	Sapling
Black Spruce	2	Pole/Sapling	5		White Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	7		White Pine	Low	Variable	Sapling
Jack Pine	1	Pole/Sapling	6		Red Pine	Trace	Variable	Sapling
Bigtooth Aspen	25	Pole/Sapling	7		Jack Pine	Trace	Variable	Sapling
					Cherry (spp.)	Trace	Variable	Sapling

53 4130 - Aspen Poletimber Well 27.5 30 Unspecified N/A Trace amounts of maple, BAM and cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole	8		White Spruce	Low	Variable	Sapling
Quaking Aspen	65	Pole/Sapling	5	30	Cherry (spp.)	Low	Variable	Sapling
Bigtooth Aspen	20	Pole/Sapling	6		White Pine	Trace	Variable	Sapling

54 6233 - Wet Meadow Nonstocked 18.1 No

55 6122 - Black Spruce Poletimber Well 5.4 79 81-110 N/A Trace amounts of red pine and aspen in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	1	Pole	7		Balsam Fir	Low	Variable	Seeding
Tamarack	33	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Northern White Cedar	5	Pole	9		Red Pine	Trace	Variable	Sapling
Black Spruce	61	Pole	8	79	Tag Alder	Medium	5 - 10 feet	Tall Shrub

56 4119 - Mixed Northern Hardwoods Sawtimber Well 16.6 94 111-140 N/A Trace amounts of cherry, aspen, paper birch, white ash, white pine, hemlock, basswood and white spruce in canopy. North/west portion of stand has a lower BA. Portion of stand along private to the west has a high percentage of poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	74	Log/Pole	11	94	Sugar Maple	Medium	Variable	Sapling
Red Maple	5	Pole	9	64	Balsam Fir	Low	Variable	Sapling
Yellow Birch	15	Log/Pole	12		White Spruce	Trace	Variable	Sapling
Balsam Fir	5	Log/Pole	10		White Pine	Trace	Variable	Sapling
Northern White Cedar	1	Pole	9					

57 6120 - Lowland Cedar Poletimber Well 49.6 101 171-200 N/A Trace amounts of tamarack, aspen and black ash in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Log/Pole	10	101				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	330 - Low-Density Trees	Nonstocked	5.0		Unspecified	No	Very variable opening filling in with tree saplings and brush. White pine, red pine, jack pine, spruce, aspen, birch and tag alder can all be found. Some of the opening may be merged into the surrounding stands as they are treated. Some of the opening will likely remain unproductive.
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59	4319 - Mixed Upland Forest	Poletimber Well	14.3	36	Immature	N/A	Trace white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	6	36	Balsam Fir	High	Variable	Sapling
Balsam Fir	40	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce	10	Pole/Sapling	6		Cherry (spp.)	Low	Variable	Sapling

60	622 - Lowland Shrub	Nonstocked	26.1		Unspecified	No	
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61	622 - Lowland Shrub	Nonstocked	5.8		Unspecified	No	
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62	4134 - Aspen, Spruce/Fir	Sapling Well	24.4	37	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Sapling/Pole	4	37	Balsam Fir	High	Variable	Sapling
Bigtooth Aspen	10	Sapling/Pole	4		White Spruce	Low	Variable	Sapling
Balsam Fir	25	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
White Spruce	10	Sapling/Pole	4		Cherry (spp.)	Trace	Variable	Sapling
Red Maple	2	Pole/Sapling	7		White Pine	Low	Variable	Sapling
Black Spruce	3	Sapling/Pole	4		Red Pine	Trace	Variable	Sapling

63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	47.1	71	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Log/Pole	11		Balsam Fir	High	Variable	Sapling
White Pine	5	XLog/Log	22		Cherry (spp.)	Trace	Variable	Sapling
Red Maple	5	Pole/Log	9		White Pine	Low	Variable	Sapling
Sugar Maple	5	Pole/Log	9		Red Pine	Trace	Variable	Sapling
Red Pine	10	Log/Pole	15		White Spruce	Trace	Variable	Sapling
Black Spruce	1	Pole	9		Black Spruce	Trace	Variable	Sapling
White Spruce	1	Log/Pole	10		Balsam Fir	High	Variable	Pole
Quaking Aspen	33	Log/Pole	10	71				
Jack Pine	15	Log/Pole	11					
Northern White Cedar	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
65	6120 - Lowland Cedar	Poletimber Well	19.8	112	81-110	N/A	Trace amounts of black ash and paper birch.																																								
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67	4130 - Aspen	Poletimber Well	18.6	46	Unspecified	N/A	Trace amounts of super canopy white pine and red pine. Trace amounts of white and black spruce in canopy.																																								
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68	4130 - Aspen	Poletimber Well	14.8	45	Unspecified	N/A	Trace amounts of white pine and black spruce in canopy.																																								
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69	6120 - Lowland Cedar	Poletimber Well	91.7	101	111-140	N/A	Trace amounts of BAM, black ash and quaking aspen. BA very variable.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70 4134 - Aspen, Spruce/Fir Sapling Well 35.5 31 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Sapling/Pole	3	31	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	25	Sapling/Pole	3		White Spruce	Low	Variable	Sapling
Paper Birch	2	Sapling/Pole	3		Balsam Poplar	Low	Variable	Sapling
Black Cherry	2	Sapling/Pole	2		Quaking Aspen	Medium	Variable	Sapling
Black Spruce	3	Pole/Sapling	6		White Pine	Low	Variable	Sapling
White Spruce	10	Sapling/Pole	3					
Balsam Poplar	8	Sapling/Pole	3					

71 6220 - Alder/willow Nonstocked 9.3 Unspecified No

72 622 - Lowland Shrub Nonstocked 6.6 Unspecified No Sparse trees.

73 6120 - Lowland Cedar Poletimber Well 78.0 112 81-110 N/A Stream runs through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole	6		Balsam Fir	Low	Variable	Seeding
Northern White Cedar	55	Log/Pole	10	112	Tag Alder	Medium	Variable	Tall Shrub
Paper Birch	5	Pole/Log	8		White Spruce	Low	Variable	Sapling
Balsam Poplar	20	Log/Pole	10		Black Spruce	Low	Variable	Sapling
					Black Ash	Low	Variable	Sapling
					Balsam Poplar	Low	Variable	Sapling

74 4319 - Mixed Upland Forest Sapling Well 4.4 31 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling/Pole	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	1	Sapling/Pole	3		Black Spruce	Medium	< 5 feet	Seeding
Balsam Fir	20	Pole/Sapling	6		Balsam Fir	Medium	< 5 feet	Seeding
White Spruce	10	Pole/Sapling	6		White Spruce	Medium	5 - 10 feet	Seeding
Black Spruce	10	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling
Sugar Maple	2	Sapling/Pole	3		Sugar Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	40	Sapling/Pole	3	31				
Balsam Poplar	12	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	4130 - Aspen	Poletimber Well	7.9	61	81-110	N/A	Most large balsam are dead. Trace amounts of cherry in canopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	71	Log/Pole	10	61	Sugar Maple	Low	Variable	Sapling
Black Spruce	1	Pole	7		White Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Log/Pole	10		Cherry (spp.)	Trace	Variable	Sapling
Red Maple	20	Pole	8					
White Spruce	1	Pole	7					