



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12051

Entry Year 2024

Acreage: 1,938

County Dickinson

Management Area: Ralph Ground Moraine

Stand Examiner: Ed Rice

Legal Description:

T42N, R29W Sections 3, 4, 5 T43N, R29W Sections 27-29, 32-34

Identified Planning Goals:

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

Soil and topography:

Uplands are loams with lowland stands on mucks. Rolling hills to flat, there are scattered steep hills.

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

This compartment is fairly contiguous with a few private parcels intermixed with camps.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

There is one area of archeological interest within the compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

East and North Branches of the Sturgeon River are located on the northern and western edges of this compartment, respectively. They are both designated Type 1 trout streams less than 50' width. Warren Pond, a Fish Division walleye rearing pond is located in the southern portion of the compartment and its outlet is also a designated trout stream. In 2017, Fisheries Division deployed three temperature loggers (below Warren Pond, above & below confluence of the EB Sturgeon) and conducted a fisheries survey along the outlet to Warren Pond. Brook trout were captured and temperatures at all locations were suitable for brook trout survival. 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.

Wildlife Habitat Considerations:

Wintering deer use the lowland stands and adjacent uplands within the compartment, even though it falls outside any map layer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Cambrian Munising Formation, the Precambrian Michigamme Formation and Randville Dolomite subcrop below the glacial drift. The Groveland Iron mine, now decommissioned is located approximately six miles to the southwest. A gravel pit is located one-half mile to the north. There is no economic oil and gas production in the UP.

Vehicle Access:

The Leeman road runs east and west through the center with the Thornton Farm road running north on the west side. There are multiple woods roads throughout the compartment. The easiest access to the southern block of the compartment is through private land.

Survey Needs:

T43N R29W E1/16 btw sec 28/33 and 1/4 btw sec 28/33

Recreational Facilities and Opportunities:

Snowmobile trail along the W side of the compartment in sec 5

Fire Protection:

The majority of the compartment is aspen and n. hardwood fuel types. Any starts should be low intensity. Good to fair equipment access.

Additional Compartment Information:

The following reports from the Inventory are attached:

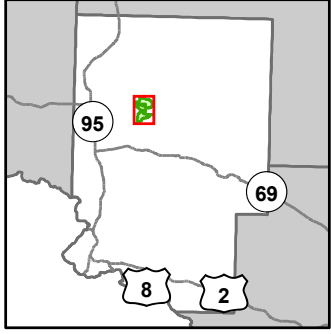
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

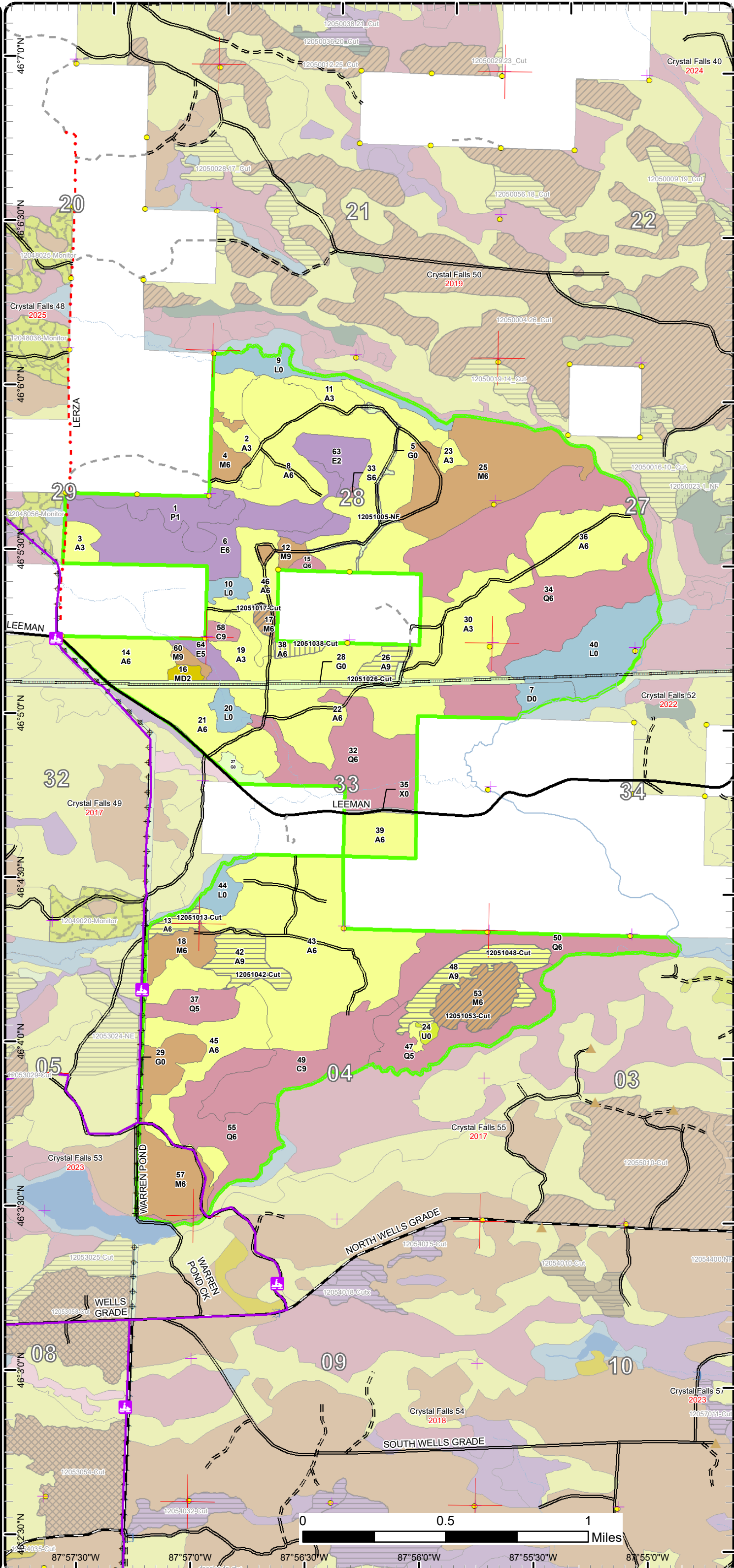
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 51
 T43N, R29W, Sec. 27-29, 32-34
 T42N, R29W, Sec. 3-5
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2024
 Acres: 1938.2 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 11/18/2022
 Map Phase: Post-Review

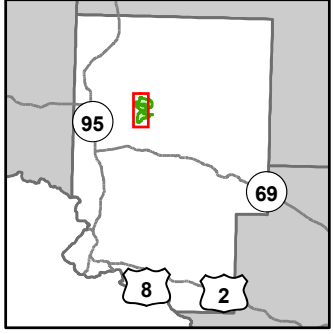


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

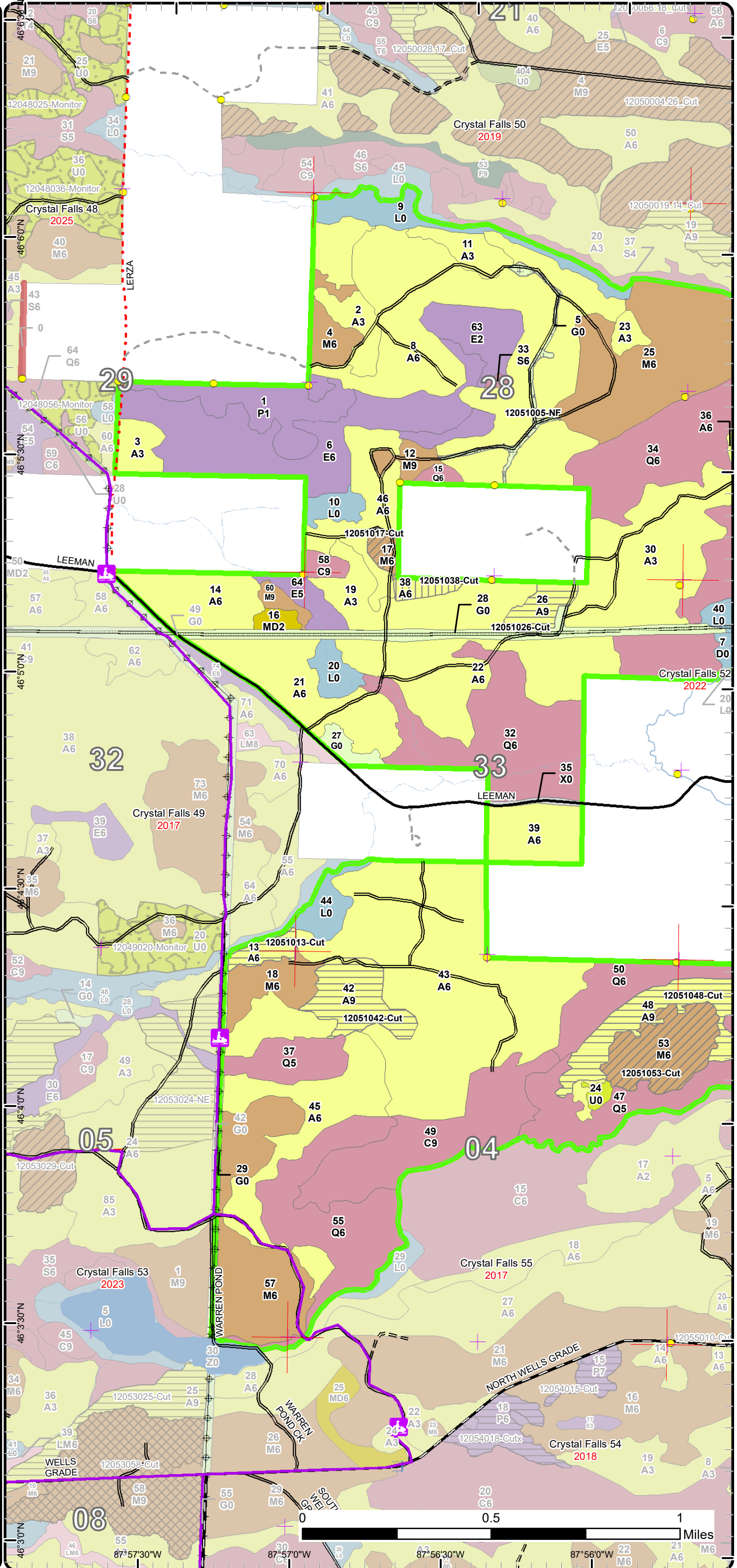


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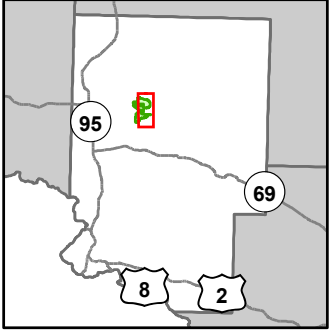


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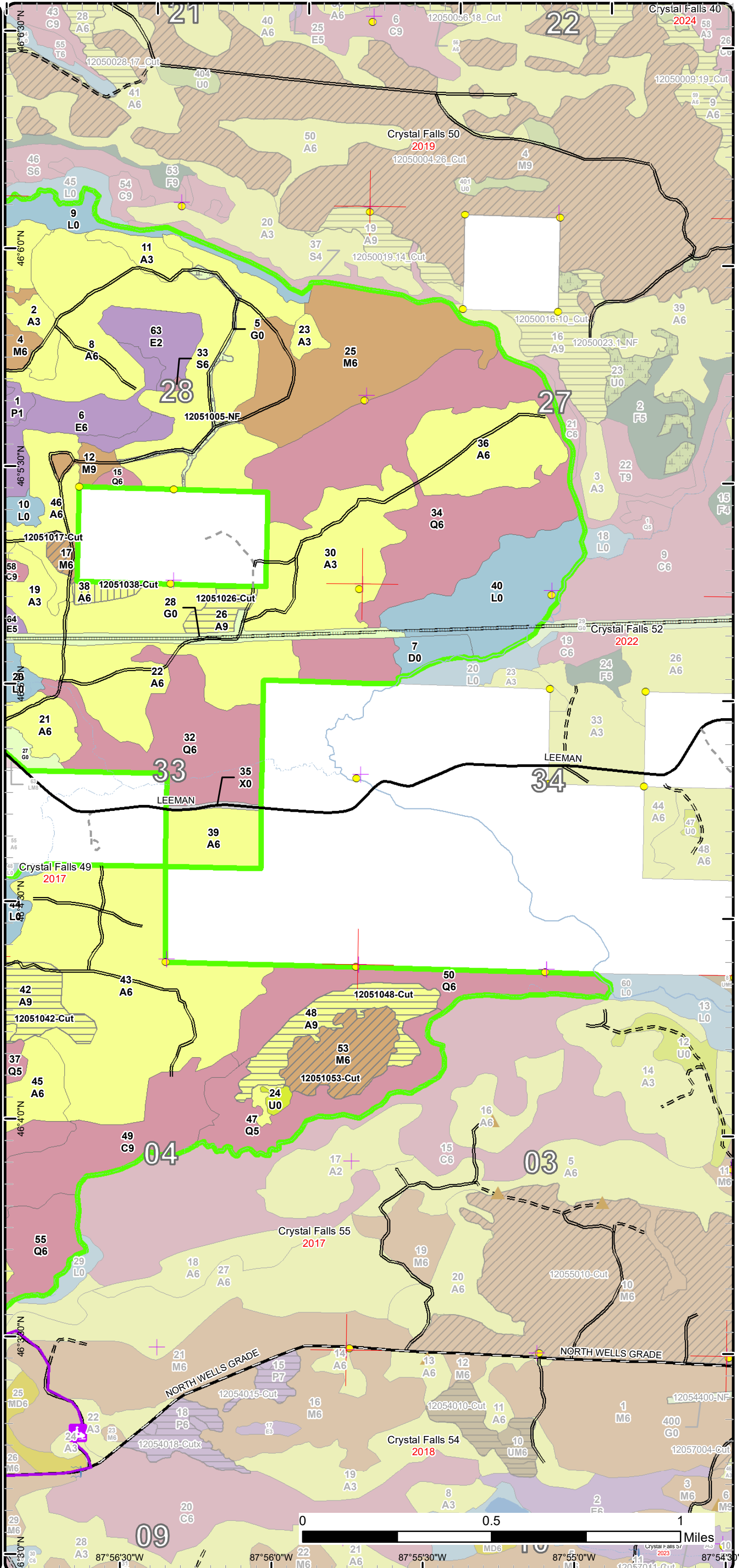


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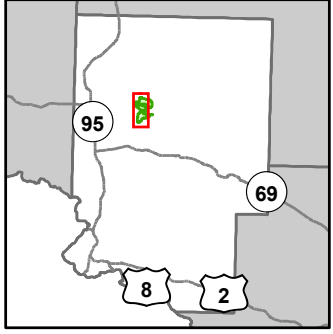


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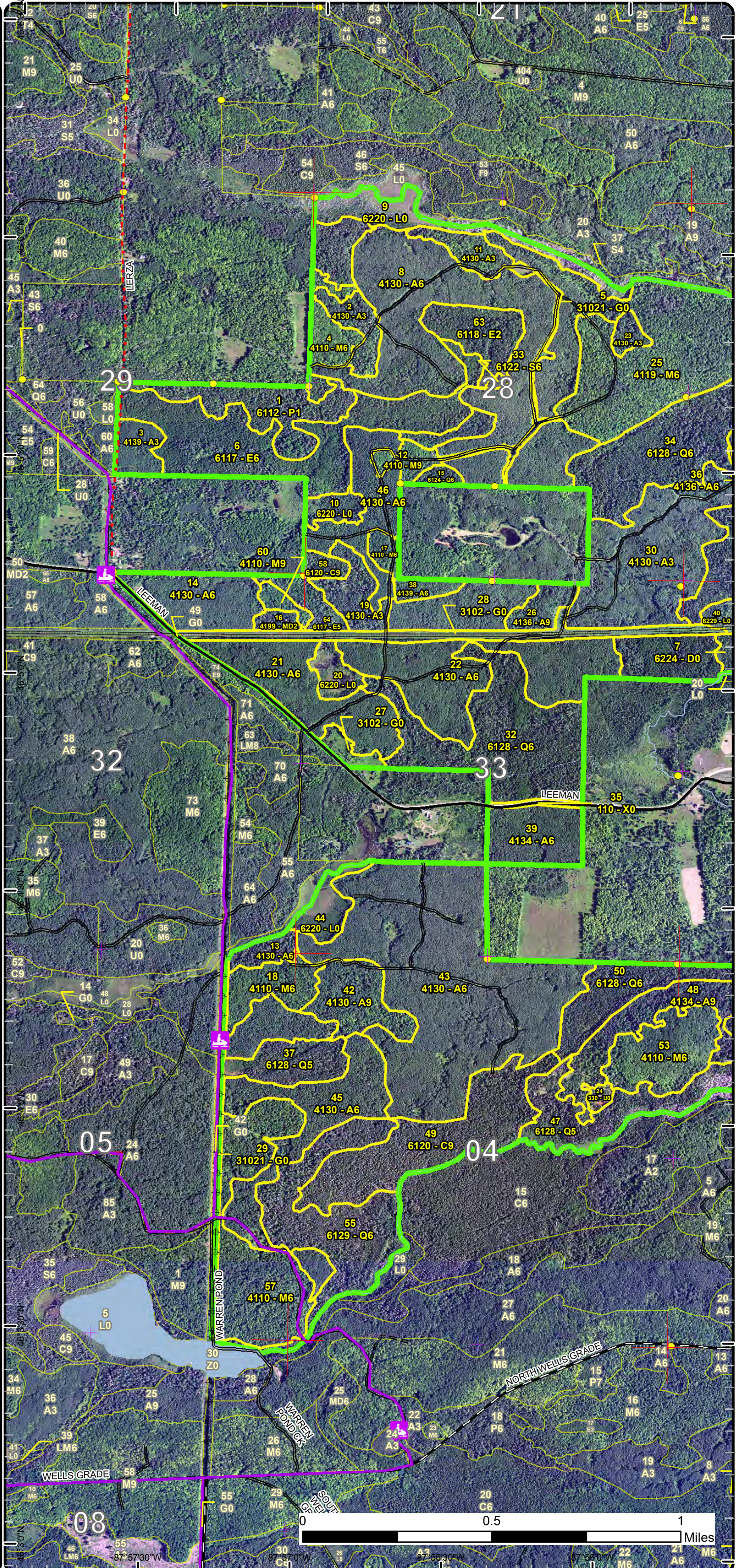


Stand Boundary Map

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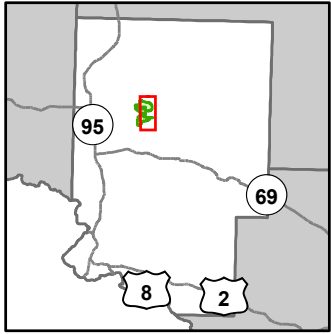


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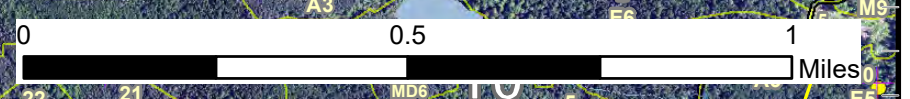
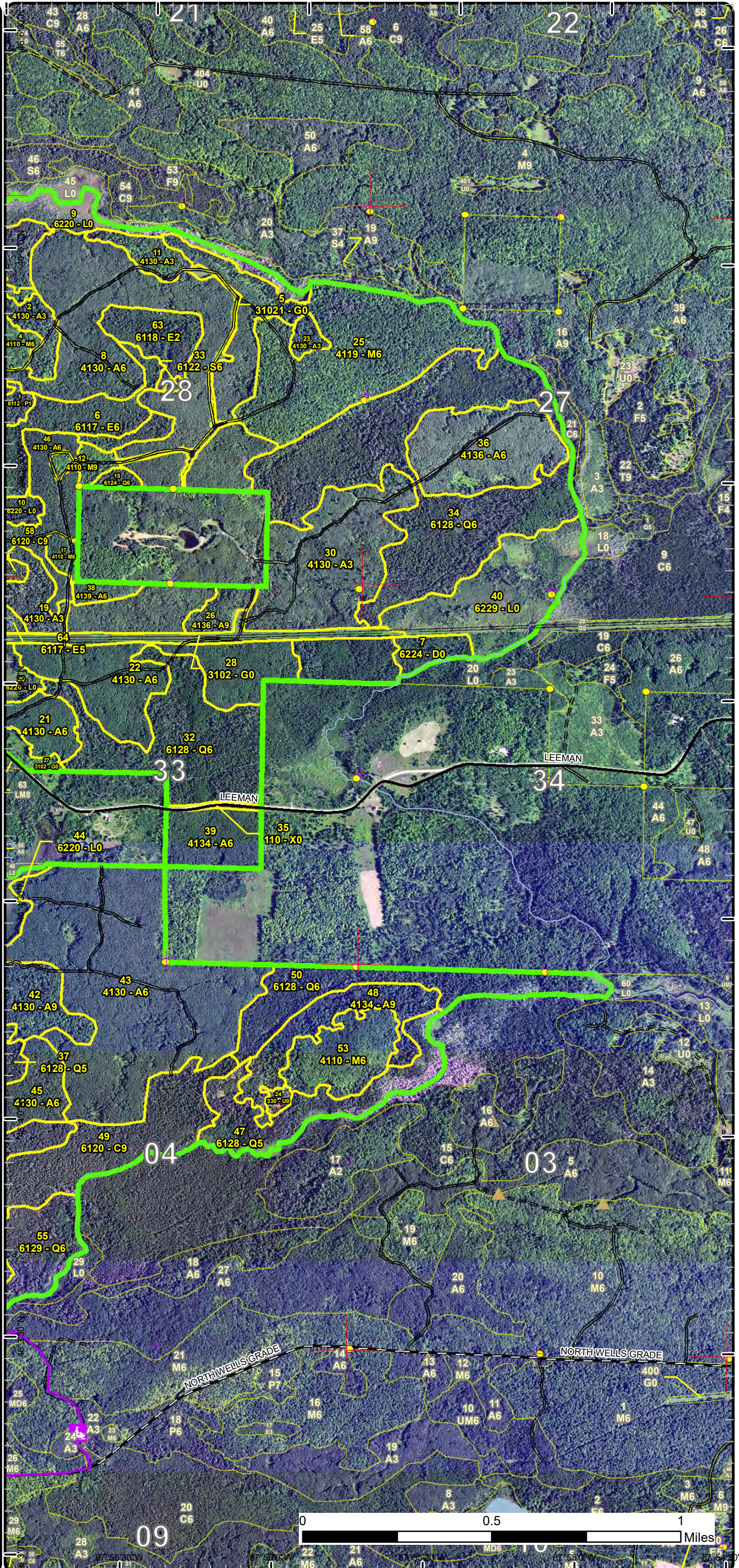


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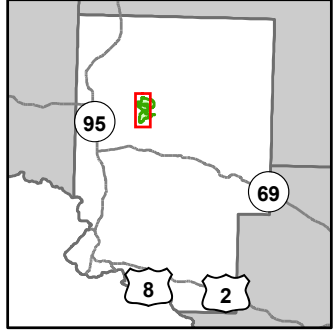


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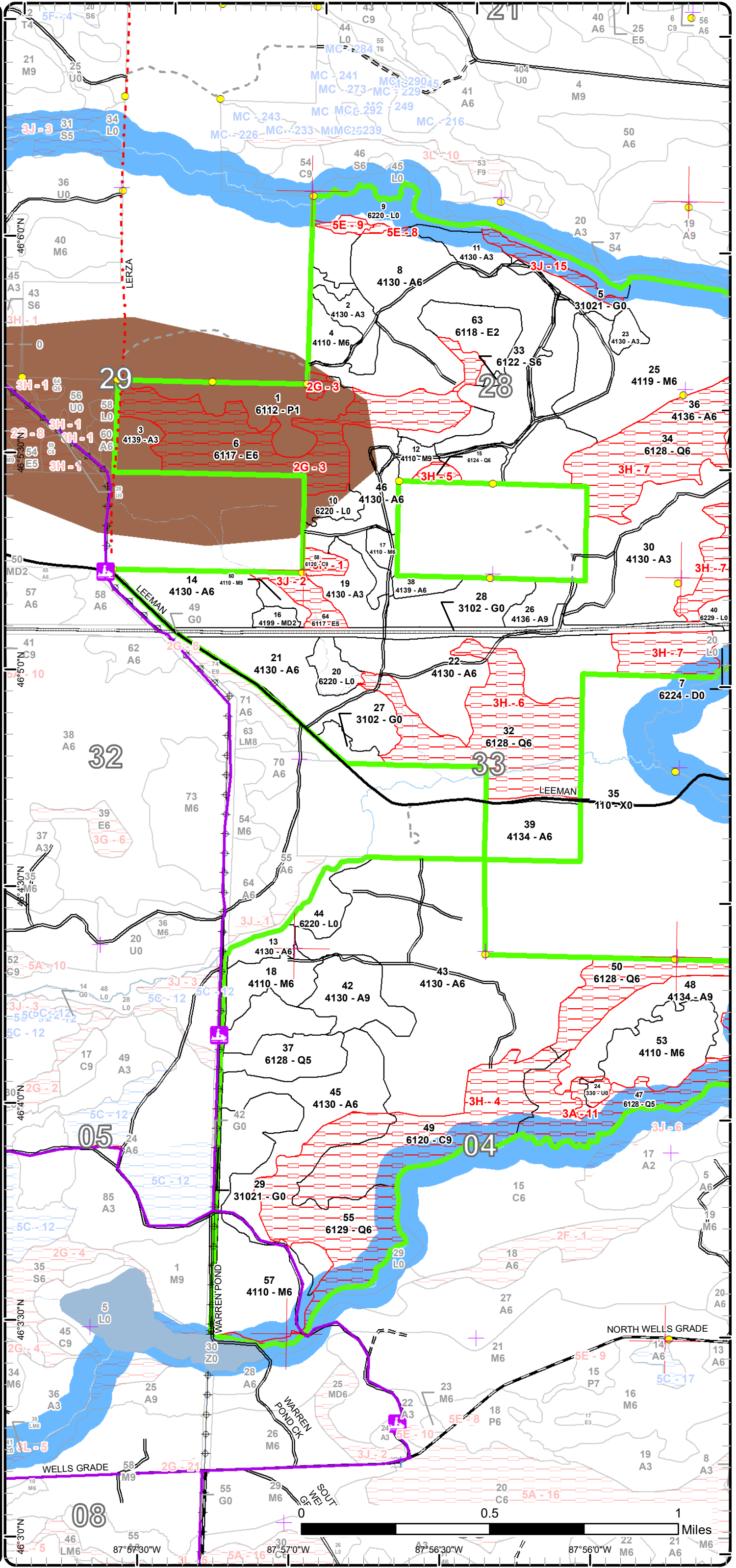


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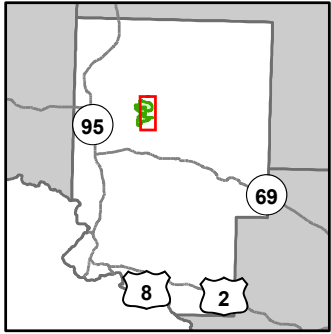


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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

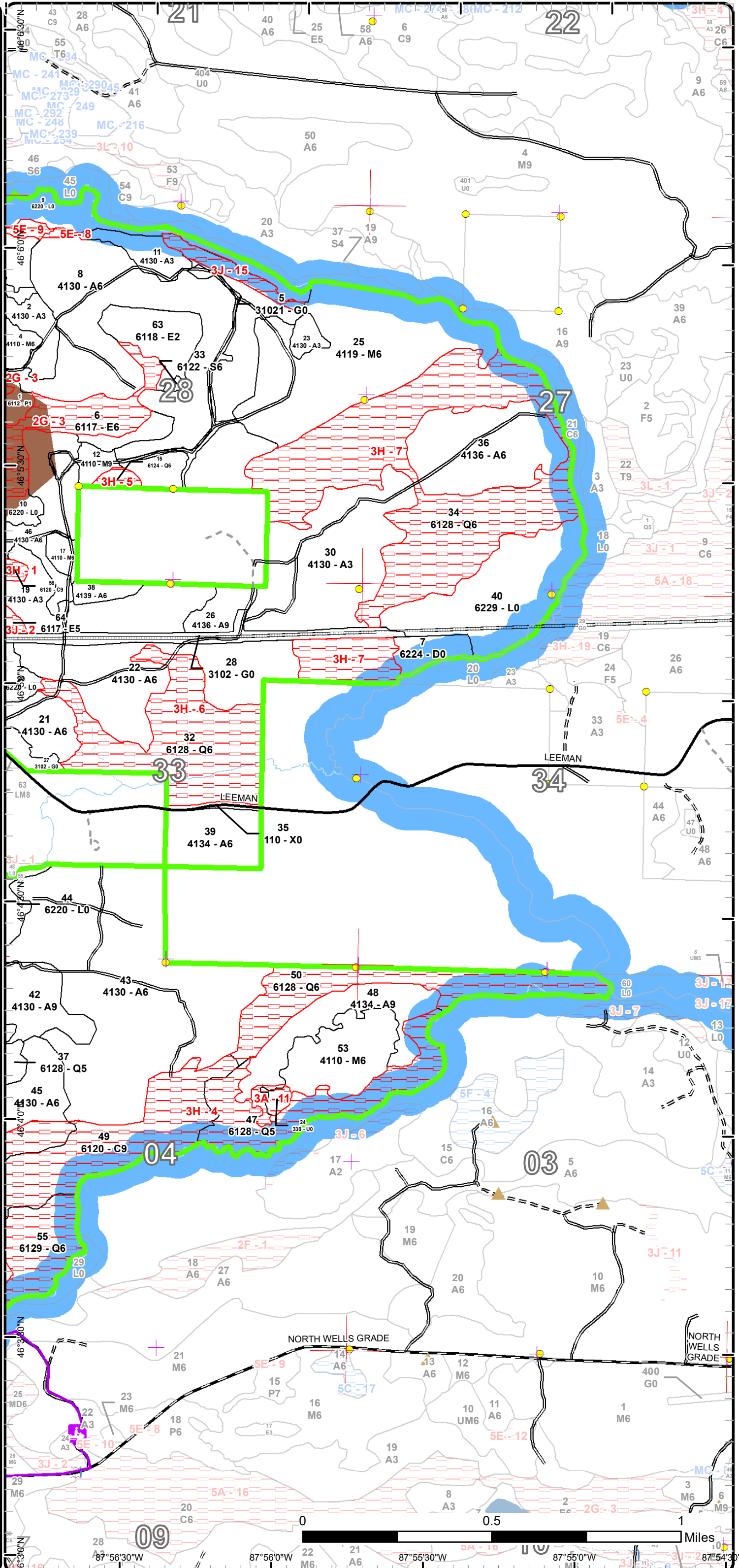


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	55	11	232	384	124	15	32	34	0	0	0	0	0	0	0	0	0	887
Cedar	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	65
Herbaceous Openland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	43	20	0	0	359	0	0	0	0	0	0	0	422
Lowland Deciduous	0	27	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	117
Lowland Shrub	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Lowland Spruce/Fir	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	75	165	0	0	0	0	0	0	0	0	0	239
Treed Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	170	118	11	232	384	124	59	217	199	0	424	0	0	0	0	0	0	0	1937



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Compartment 51
Total Compartment Acres: 1,938

Acres of Harvest

Commercial Harvest - 115
 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	72	0	0	0	5	0	0	0	0	78
Northern Hardwood	0	0	0	0	0	37	0	0	0	37
Total	72	0	0	0	5	37	0	0	0	115

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	115	0	0	0	0	0	0	0	6	121
Next Step	0	0	0	0	0	0	78	0	0	78
Total	115	0	0	0	0	0	78	0	6	199



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	12051005-NF	6.4	31021 - Cool Season Grass	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	31021 - Cool Season Grass		No
<p><u>Prescription</u> reestablish hunter walking trail, seeding</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 /2023</p>											
13	12051013-Cut	6.5	4130 - Aspen	Poletimber Well	64	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, cherry, maple, w birch. cut spruce/fir 7" stump diameter and larger (2 sticks and larger). leave one cherry and w birch per cruise point where available. do not cut w pine, r pine. exclude any low ground inclusions.</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, spruce, fir, w pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
17	12051017-Cut	5.0	4110 - Sugar Maple Association	Poletimber Well	65	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> thin to 70 BA. remove in order of priority: high risk trees that likely will not survive or decrease in value due to defects to the next cutting cycle (20 yrs). financially mature trees (18" dbh and larger), and if needed, thin from below to meet BA. [any basswood removal - attempt to capture the value of sawlogs/veneer, avoid marking pulpwood sized trees].where available, keep at least one supercanopy h maple per acre. keep all species represented in the stand, do not remove all of one species. do not cut w pine, y birch, cedar or hemlock</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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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
26 12051026-Cut	9.6	4136 - Aspen, Mixed Conifer	Sawtimber Well	52	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, cherry, maple. cut spruce/fir 7" stump diameter and larger (2 sticks and larger). leave one cherry and maple per cruise point where available. do not cut w pine, w birch, b ash. exclude any lowland areas</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 Regen:</u> aspen, maple, spruce, fir, w pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
38 12051038-Cut	5.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	55	51-80	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> treat overstory aspen as a hardwood canopy in management. mark to remove aspen, reducing canopy closure to 50%. do not remove all aspen canopy. avoid damaging advanced maple regeneration as much as possible in marking and logging operations. if maple is needed to be removed for access, mark for cutting, concentrating on r maple. cut associated spruce/fir 7" stump diameter and larger (2 sticks and larger). do not cut any cedar, pine, or hemlock</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 Regen:</u> n hardwood, some aspen</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
42 12051042-Cut	24.6	4130 - Aspen	Sawtimber Well	69	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, maple, cherry. cut spruce/fir 7" stump diameter (2 sticks and larger). leave one maple, cherry, w birch per cruise point where available. do not cut w birch unless found to be well stocked poletimber, then treat as maple above do not cut w pine, r pine, hemlock, y birch, or b ash if found. protect submerchantable conifers</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 Regen:</u> aspen, maple, spruce, fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48 12051048-Cut	31.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	75	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) aspen, maple, cherry, w birch. cut spruce/fir 7" stump diameter and larger (2 sticks and larger). leave 1 <u>Specs:</u> h maple, cherry, and w birch per cruise point where available. do not cut w pine, r pine, y birch</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, spruce, fir <u>Regen:</u></p> <p><u>Other</u> stand was set up and sold last entry but was not cut <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
53 12051053-Cut	32.2	4110 - Sugar Maple Association	Poletimber Well	67	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 70 BA. remove in order of priority: high risk trees that likely will not survive or decrease in value due to defects to the next cutting <u>Specs:</u> cycle (20 yrs). financially mature trees (18" dbh and larger), and if needed, thin from below to meet BA. [any basswood removal - attempt to capture the value of sawlogs/veneer, avoid marking pulpwood sized trees]. where available, keep at least one supercanopy h maple per acre. keep all species represented in the stand, do not remove all of one species. do not cut w pine, y birch, cedar or hemlock</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> N hardwoods <u>Regen:</u></p> <p><u>Other</u> stand was marked and sold previous: orange marks still present. likely will have to remark in differing color <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 121.4
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 51
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
887	872	0	15

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
					2G	3A	3H	3J	5E
887	872	0	15	Aspen		2		9	4
65	0	0	65	Cedar			65		
43	43	0	0	Herbaceous Openland					
3	0	0	3	Low-Density Trees		3			
32	32	0	0	Lowland Aspen/Balsam Poplar					
423	20	0	403	Lowland Conifers			403		
117	27	0	90	Lowland Deciduous	80			10	
110	109	0	0	Lowland Shrub				0	
1	1	0	0	Lowland Spruce/Fir					
4	4	0	0	Mixed Upland Deciduous					
240	240	0	0	Northern Hardwood					
10	10	0	0	Treed Bog					
5	5	0	0	Urban					
1,938	1,363		575	Total Forested Acres	80	5	468	18	4
	70%		30%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Compartment: 51

Year of Entry: 2024

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments: standing water through many areas, heavy brush							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	214	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	75	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: heavy winter deer use, multiple creeks and drainages							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	171	Unspecified	Unspecified	Unspecified	Unspecified
Comments: heavy winter deer use, very wet stand notably nearer to gas line							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 51

Year of Entry: 2024

9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	6112 - Lowland Aspen	Sapling Poor	31.8	4	Immature	N/A	areas of cattails and lowland grass - open areas where no regeneration is present. scattered cedar																																						
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3	4139 - Aspen, Mixed Deciduous	Sapling Well	10.8	16	Immature	N/A	lowland areas scattered throughout - regenerating to highly stocked b ash saplings																																						
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4	4110 - Sugar Maple Association	Poletimber Well	12.7	65	81-110	N/A	average stand 90 BA																																						
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5	31021 - Cool Season Grass	Nonstocked	6.4	0	Unspecified	Managed Opening	hunter walking trail																																						
6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	80.3	64	81-110	N/A	pockets of highly stocked cedar. areas of standing water																																						
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7	6224 - Treed Bog	Nonstocked	9.8	0	Unspecified	No	non productive forested land - scattered low quality cedar, stunted b spruce and tamarack																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Poletimber Well	158.6	25	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		15	Sapling/Pole	3		Balsam Fir	Density
Black Cherry		10	Sapling/Pole	3		10 - 20 feet	Size
Quaking Aspen		75	Pole/Sapling	6	25	Sapling	
9	6220 - Alder/willow	Nonstocked	22.6		Unspecified	No	E Branch Sturgeon River and associated lowlands - alder, meadows, associated scattered cedar snags
10	6220 - Alder/willow	Nonstocked	7.2		Unspecified	No	tag alder, scattered fir
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Low	5 - 10 feet	Sapling			
11	4130 - Aspen	Sapling Well	10.9	4	Immature	N/A	scattered w birch left in previous cut. areas showing little to no regeneration notably in W end
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log	16		Balsam Fir	Density
Quaking Aspen		90	Sapling	1	4	< 5 feet	Size
Paper Birch		5	Log/Pole	10		Sapling	
12	4110 - Sugar Maple Association	Sawtimber Well	7.3	61	81-110	N/A	very scattered w birch. average stand 100 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		90	Pole/Log	8	61	Leatherwood	Density
Basswood		5	Pole	8		Variable	Size
Black Cherry		5	Pole	7		< 5 feet	Tall Shrub
						Sapling	
						Sugar Maple	Density
						>20 feet	Size
						Sapling	
13	4130 - Aspen	Poletimber Well	7.4	64	81-110	N/A	areas of low ground holding tag alder in SE
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		15	Pole/Sapling	7		Tag Alder	Density
Black Cherry		5	Pole	7		5 - 10 feet	Size
Sugar Maple		15	Pole	8		Hazelnut (Spp.)	Density
Quaking Aspen		65	Log	11	64	5 - 10 feet	Size
						Tall Shrub	
						White Spruce	Density
						10 - 20 feet	Size
						Sapling	
14	4130 - Aspen	Poletimber Well	29.3	35	Unspecified	N/A	scattered b ash sapling inclusions - low ground.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole/Sapling	6		Black Ash	Density
Balsam Fir		5	Pole/Sapling	5		Low	Size
Quaking Aspen		90	Pole/Sapling	6	35	5 - 10 feet	Sapling
						Balsam Fir	Density
						High	Size
						10 - 20 feet	Sapling
						White Spruce	Density
						High	Size
						10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
15	6124 - Lowland Spruce-Fir	Poletimber Well	3.3	95	Unspecified	N/A	winter deer use																																						
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16	4199 - Other Mixed Upland Deciduous	Sapling Medium	3.8	4	Immature	N/A	areas open with little to no regeneration																																						
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17	4110 - Sugar Maple Association	Poletimber Well	5.0	65	111-140	N/A	scattered upland cedar. average stand 110-120 BA																																						
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20	6220 - Alder/willow	Nonstocked	8.7		Unspecified	No	small creek and series of old beaver meadows.																																						
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24	330 - Low-Density Trees	Nonstocked	2.6	0	Unspecified	No	semi open, scattered w pine																																											
25	4119 - Mixed Northern Hardwoods	Poletimber Well	98.7	72	81-110	N/A	component of h maple and basswood 16-18" dbh. far E end transitions to 12" dbh aspen intermixed with hardwood. small inclusion of 12-14" aspen in NW of the stand. areas highly stocked to ironwood saplings. average stand 100 BA																																											
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26	4136 - Aspen, Mixed Conifer	Sawtimber Well	9.6	52	Unspecified	N/A	very scattered r maple and h maple 4-6". N central of stand has a lowland inclusion - b ash saplings/aspen/cedar																																											
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27	3102 - Grass	Nonstocked	5.5		Unspecified	No	areas of semi open with spruce, fir aspen																																											
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28	3102 - Grass	Nonstocked	25.9		Unspecified	No	gas line - open																																											



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29	31021 - Cool Season Grass	Nonstocked	5.4	0	Unspecified	No	transmission line																																																				
30	4130 - Aspen	Sapling Well	73.6	27	Immature	N/A	stand just moving into poletimber size class. scattered balm and w birch. NE end has a slight component of h maple and basswood. small acreage cedar lowland inclusion in central of the stand																																																				
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32	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	74.8	97	Unspecified	N/A	winter deer use 3/8/22																																																				
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33	6122 - Black Spruce	Poletimber Well	1.1	56	Unspecified	N/A	pure b spruce																																																				
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35	110 - Low Intensity Urban	Nonstocked	5.1		Unspecified	No	Leeman Road																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	4136 - Aspen, Mixed Conifer	Poletimber Well	52.1	34	Unspecified	N/A	component of 10-11" aspen throughout. scattered maple
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log/Pole	10		Balsam Fir	
White Spruce		10	Pole/Sapling	6		Medium	
Quaking Aspen		80	Pole	7	34	White Spruce	
Balsam Fir		5	Pole/Sapling	5		Medium	
						10 - 20 feet	
						Sapling	

37	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	20.0	62	Unspecified	N/A	very heavy tag alder in W end, more open
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		30	Log/Pole	10		Tag Alder	
Tamarack		10	Pole	7		High	
Black Ash		15	Pole/Sapling	5		Balsam Fir	
Black Spruce		40	Pole	7	62	Medium	
Paper Birch		5	Pole	6		10 - 20 feet	
						Sapling	

38	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.4	55	51-80	N/A	heavily stocked maple saplings in understory. aspen in stand acting as natural shelterwood.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		5	Pole	7		Sugar Maple	
White Spruce		5	Pole/Sapling	6		High	
Paper Birch		5	Pole	6		Red Maple	
Sugar Maple		30	Pole/Sapling	6		Medium	
Quaking Aspen		40	Log	11	55	>20 feet	
Red Maple		15	Pole/Sapling	6		>20 feet	
						Sapling	

39	4134 - Aspen, Spruce/Fir	Poletimber Well	25.0	42	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		20	Pole/Sapling	5		Balsam Fir	
Balsam Fir		20	Pole/Sapling	5		Low	
Quaking Aspen		60	Pole/Sapling	6	42	Variable	
						Seeding	

40	6229 - Mixed lowland shrub	Nonstocked	59.7		Unspecified	No	series of drainages, creeks and old beaver ponds. large expanse of alder and swamp grass. scattered lowland conifer
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42	4130 - Aspen	Sawtimber Well	24.6	69	Unspecified	N/A	pockets of fir saplings. overall fairly open understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole	8		Leatherwood	
Sugar Maple		30	Pole	8		Medium	
Quaking Aspen		60	Log	14	69	Balsam Fir	
Balsam Fir		5	Pole/Sapling	7		Medium	
						10 - 20 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
43	4130 - Aspen	Poletimber Well	171.2	34	Unspecified	N/A	very scattered conifer. just about a pure aspen stand. component of 8 - 9" aspen																																														
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44	6220 - Alder/willow	Nonstocked	11.2	0	Unspecified	No	heavy tag alder																																														
45	4130 - Aspen	Poletimber Well	68.6	47	Unspecified	N/A	scattered w birch 3 - 4" dbh																																														
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46	4130 - Aspen	Poletimber Well	30.4	42	Unspecified	N/A	realistically should allow one more rotation for additional diameter growth																																														
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47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	43.4	59	Unspecified	N/A	stand overall is low stocked, with included areas of fairly well stocked.																																														
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48	4134 - Aspen, Spruce/Fir	Sawtimber Well	34.1	75	Unspecified	N/A	Aspen is in decline. h maple component is large, low quality, wolf type trees																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	6120 - Lowland Cedar	Sawtimber Well	60.4	95	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Ash		10	Pole	5		Tag Alder	
Paper Birch		5	Pole	5		Density	Avg. Height
Black Spruce		5	Pole	7		High	5 - 10 feet
Northern White Cedar		75	Log/Pole	10	95	Size	
Tamarack		5	Log/Pole	10		Tall Shrub	

50	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	48.4	95	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Sapling	7		Balsam Fir	
Tamarack		10	Pole	7		Medium	5 - 10 feet
Paper Birch		5	Pole	6		Medium	5 - 10 feet
Black Ash		20	Pole/Sapling	7	65	Size	
Balsam Poplar		10	Log/Pole	10		Sapling	
Northern White Cedar		45	Log	10	95	Tall Shrub	

53	4110 - Sugar Maple Association	Poletimber Well	32.2	67	111-140	N/A	scattered h maple 12-14" dbh. scattered large aspen. rolling hills. stand average 120 BA.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		80	Pole/Log	8	67	Sugar Maple	
Yellow Birch		5	Log/Pole	10		Low	>20 feet
Basswood		10	Log	12		Size	
Red Maple		5	Pole	8		Sapling	

55	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	61.5	95	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		20	Pole	8		Balsam Fir	
Paper Birch		5	Pole	6		Low	< 5 feet
Balsam Fir		10	Pole	7		Medium	5 - 10 feet
Black Spruce		30	Pole	7		Size	
Northern White Cedar		35	Log/Pole	10	95	Tall Shrub	

57	4110 - Sugar Maple Association	Poletimber Well	61.5	72	81-110	N/A	component of h maple 16-18"dbh. very scattered w birch 8-10". heavily stocked ironwood saplings in understory. average stand 90 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		10	Log/Pole	10		Ironwood	
Yellow Birch		5	Pole/Log	8		High	5 - 10 feet
Sugar Maple		75	Pole/Log	8	72	Size	
Red Maple		10	Pole/Log	8		Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	6120 - Lowland Cedar	Sawtimber Well	4.6	95	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		5	Log	12		Tag Alder	
Northern White Cedar		90	Log/Pole	11	95	Density	Avg. Height
Black Spruce		5	Pole	7		Low	5 - 10 feet
							Tall Shrub

60	4110 - Sugar Maple Association	Sawtimber Well	4.3	72	81-110	N/A	lower quality maple very scattered 3-4" fir. stand average 100 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		10	Log/Pole	14		Sugar Maple	
Sugar Maple		80	Log/Pole	11	72	Density	Avg. Height
Red Maple		10	Log/Pole	14		Low	>20 feet
							Sapling

63	6118 - Lowland Deciduous with Cedar	Sapling Medium	27.3	4	Immature	N/A	NW has small pockets of aspen regeneration. S end regenerating to tamarack. scattered cedar and tag alder. little to no regen in areas previously lowland conifer - cattails
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		20	Sapling	1		Tag Alder	
Northern White Cedar		20	Pole	7		Density	Avg. Height
White Pine		5	Log	14		Medium	5 - 10 feet
Tamarack		5	Sapling	1			Tall Shrub
Black Ash		10	Sapling/Pole	4			
Quaking Aspen		40	Sapling	1	4		

64	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.5	65	81-110	N/A	stand acting as buffer to creek
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		15	Log/Pole	12		Tag Alder	
Black Ash		40	Pole/Sapling	6	65	Density	Avg. Height
White Spruce		35	Pole	8		Medium	5 - 10 feet
Balsam Poplar		10	Log/Pole	12			Tall Shrub