



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12058

Entry Year 2022

Acreage: 2,308

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2020-05-01

Stand Examiner: Andrew Church

Legal Description:

T42N R28W: Sec 6, 7 T42N R29W: Sec 1, 2, 11, 12 T43N R29W: Sec 35, 36

Identified Planning Goals:

Conserve, protect, manage, use and enjoy the State's natural and cultural resources for current and future generations.

Soil and topography:

The uplands are dominated by Pemene-Rock outcrop complex which has well-drained Pemene soil intermingled with areas of rock outcrop. Other upland soils include Emmet fine sandy loam located on rolling, well-drained soils. Lowland soils are Carbondale and Cathro mucks and Ensley fine sandy loam.

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

This compartment is a large contiguous block of State-owned land primarily used by a variety of outdoor enthusiasts. State land surrounds much of the compartment boundary.

Unique Natural Features:

Gene's Pond, Sturgeon River

Archeological, Historical, and Cultural Features:

none

Special Management Designations or Considerations:

Genes Pond Flooding State Wildlife Management Area and Obligate Deer Wintering Complex. Also, Eagle and Osprey considerations.

Watershed and Fisheries Considerations:

This compartment contains the East Branch of the Sturgeon River which is designated a Type 1 trout stream less than 50' in width (above Gene's Pond). 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. Gene's Pond is also in this compartment and a 100' buffer plus 5' per 1% increase in slope is recommended for this area. The outlet, EB Sturgeon River is also in this compartment, however this portion is not a designated trout stream. The stretch of river below Gene's Pond should have a 100' buffer. In the southwest corner of the compartment, there is an unnamed stream that flows into Sixmile Creek. A 100' buffer should be implemented on this stream as well.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Wells Grade road from the West is the main point of access.

Survey Needs:

none

Recreational Facilities and Opportunities:

Hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

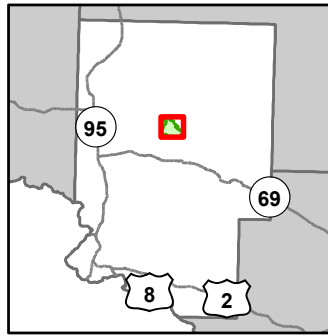
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

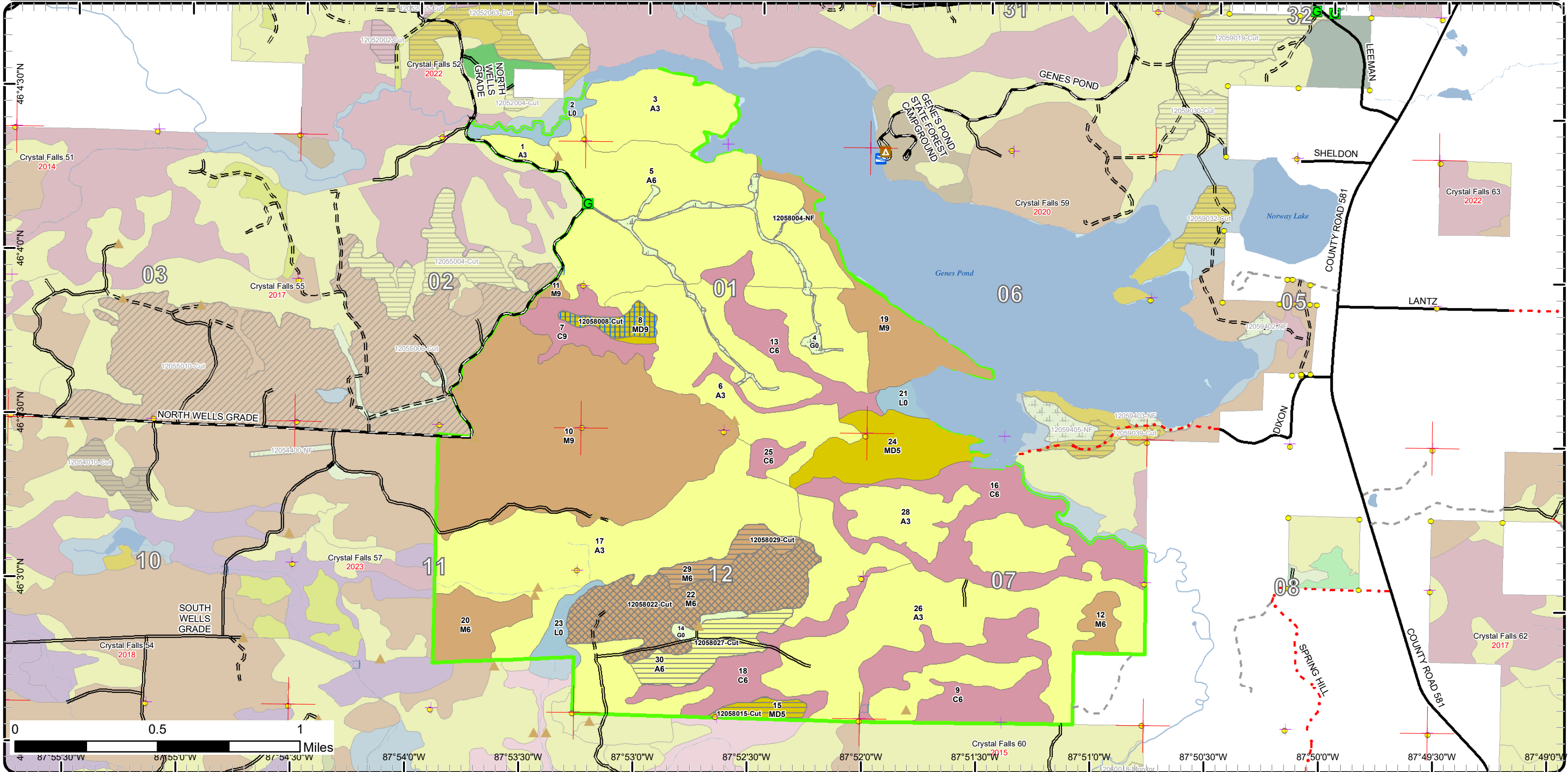
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 58
 T43N, R29W, Sec. 35, 36
 T42N, R29W, Sec. 1, 2, 11, 12
 T42N, R28W, Sec. 6, 7
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2022
 Acres: 2307.9 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 2/5/2021
 Map Phase: Post-Review

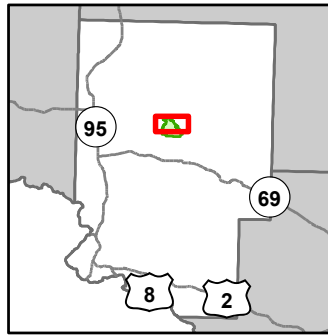


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- B Boating Access Site
- ⚡ Bridges
- C Culvert
- ▲ Campground
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- X Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

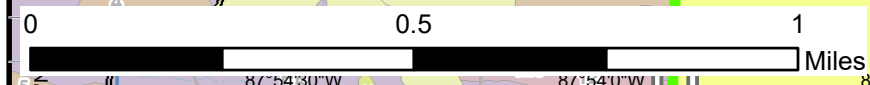
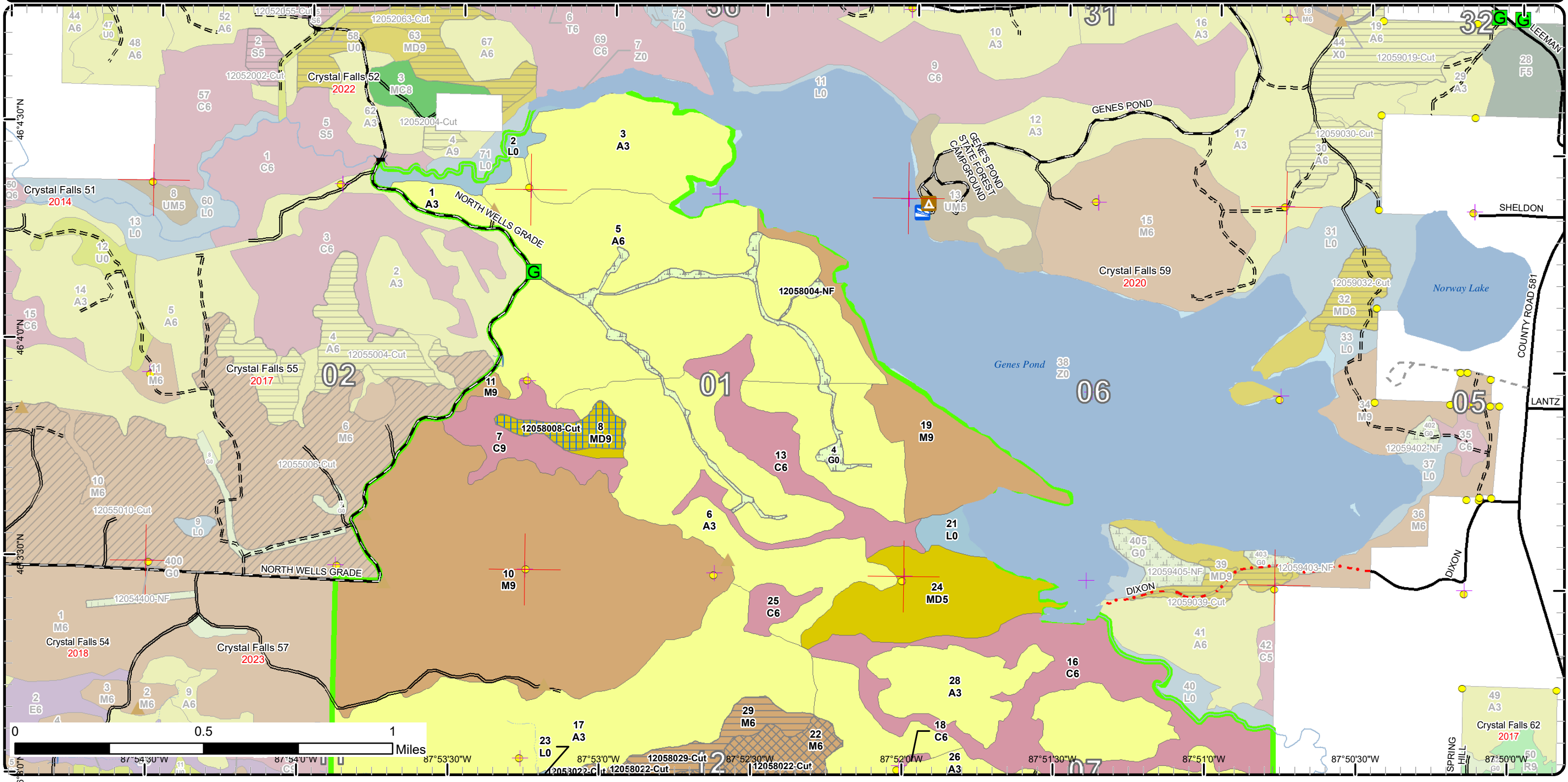


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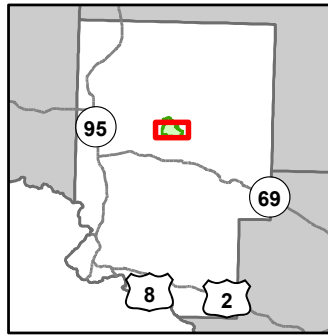
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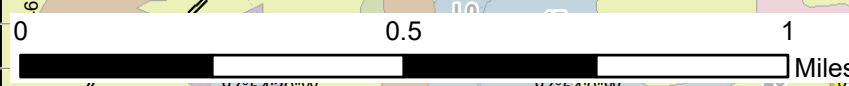
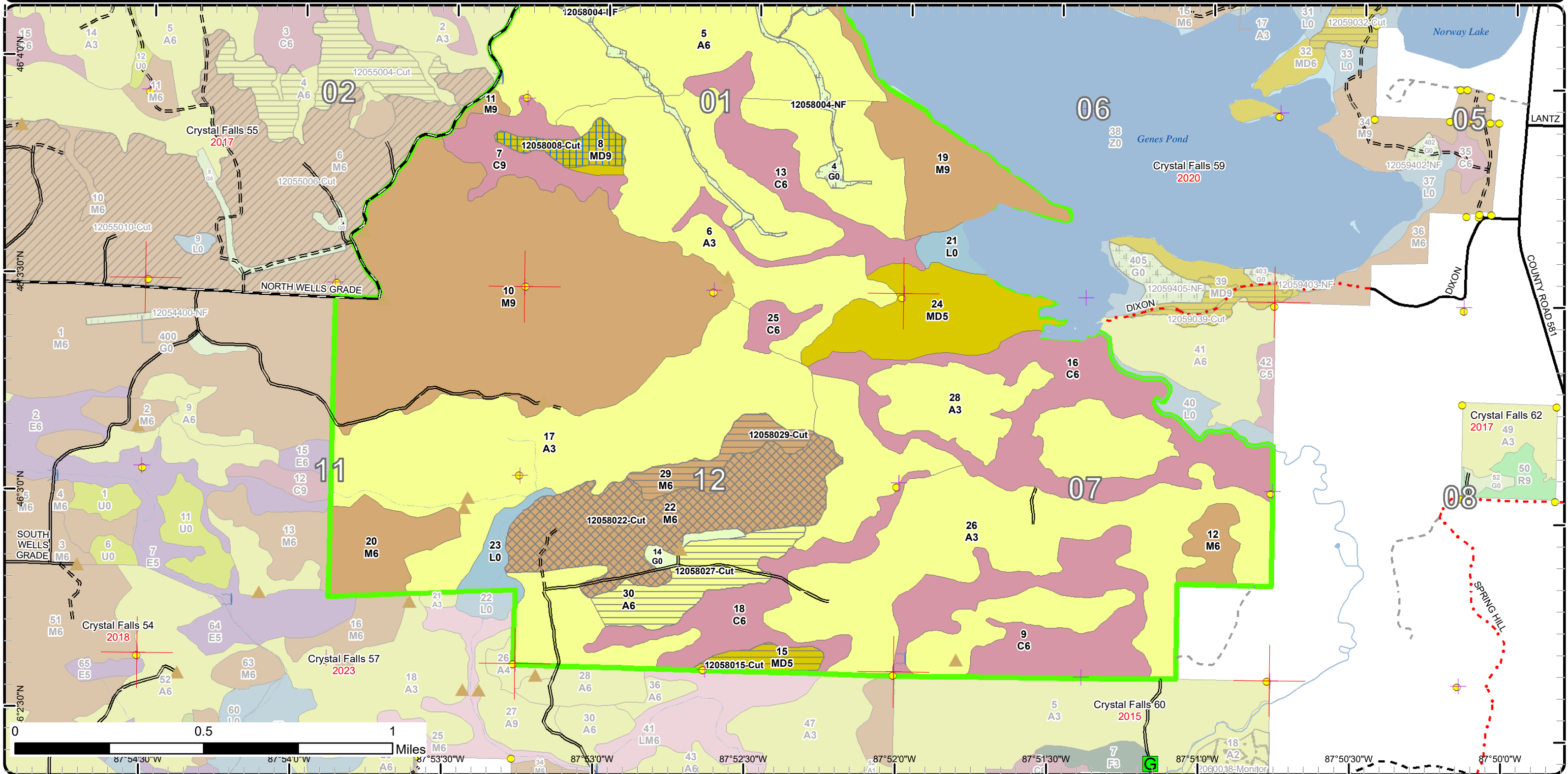
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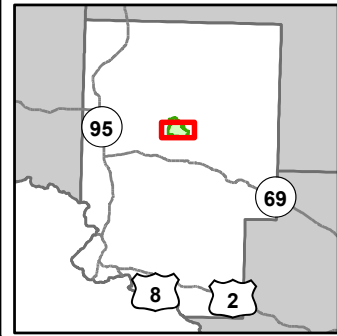
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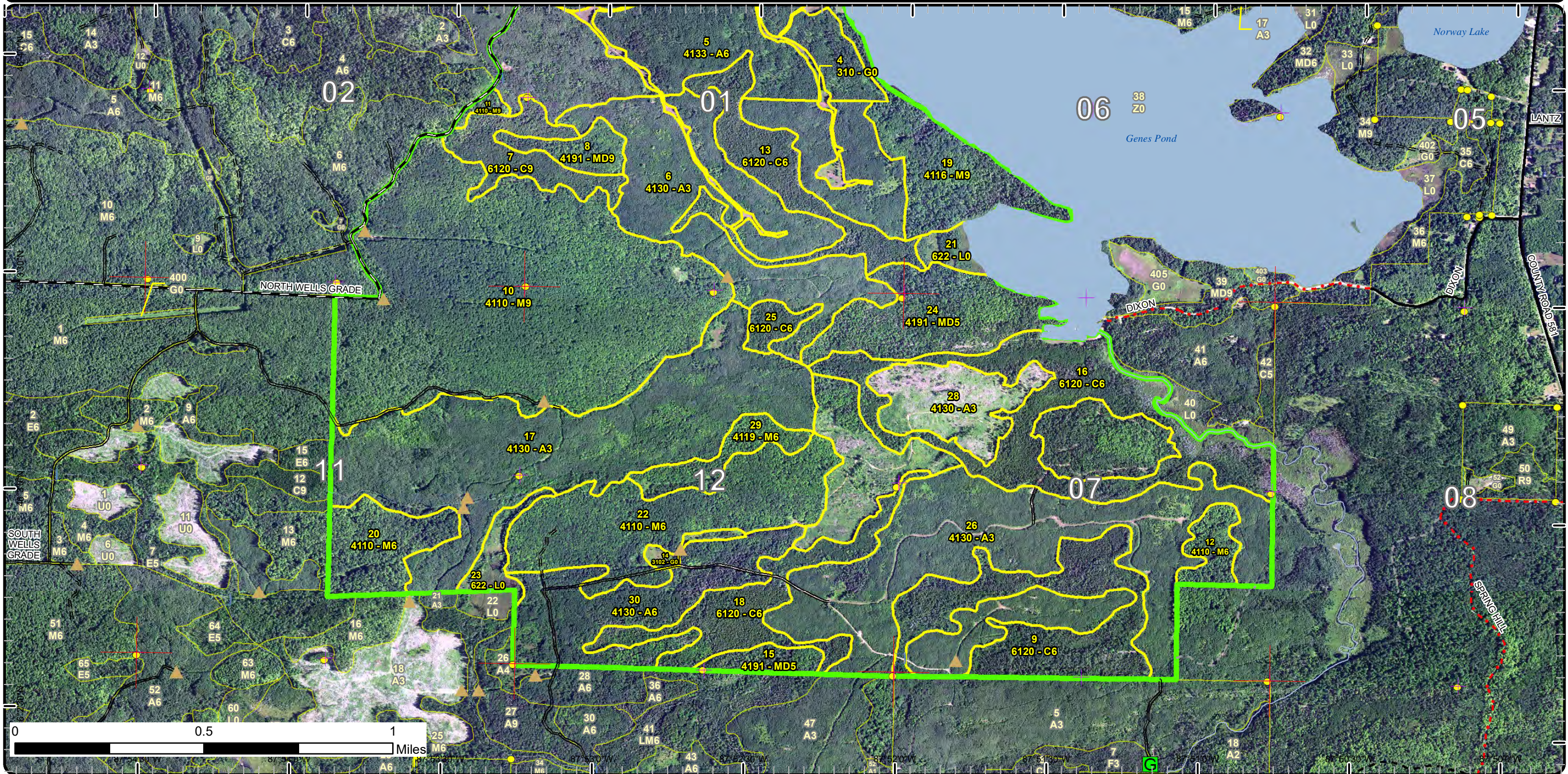
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Stand Boundary Map

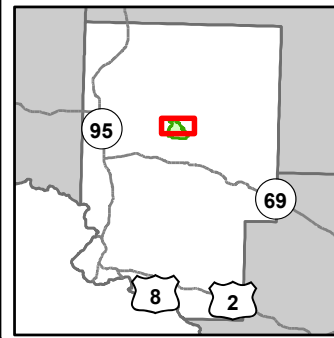
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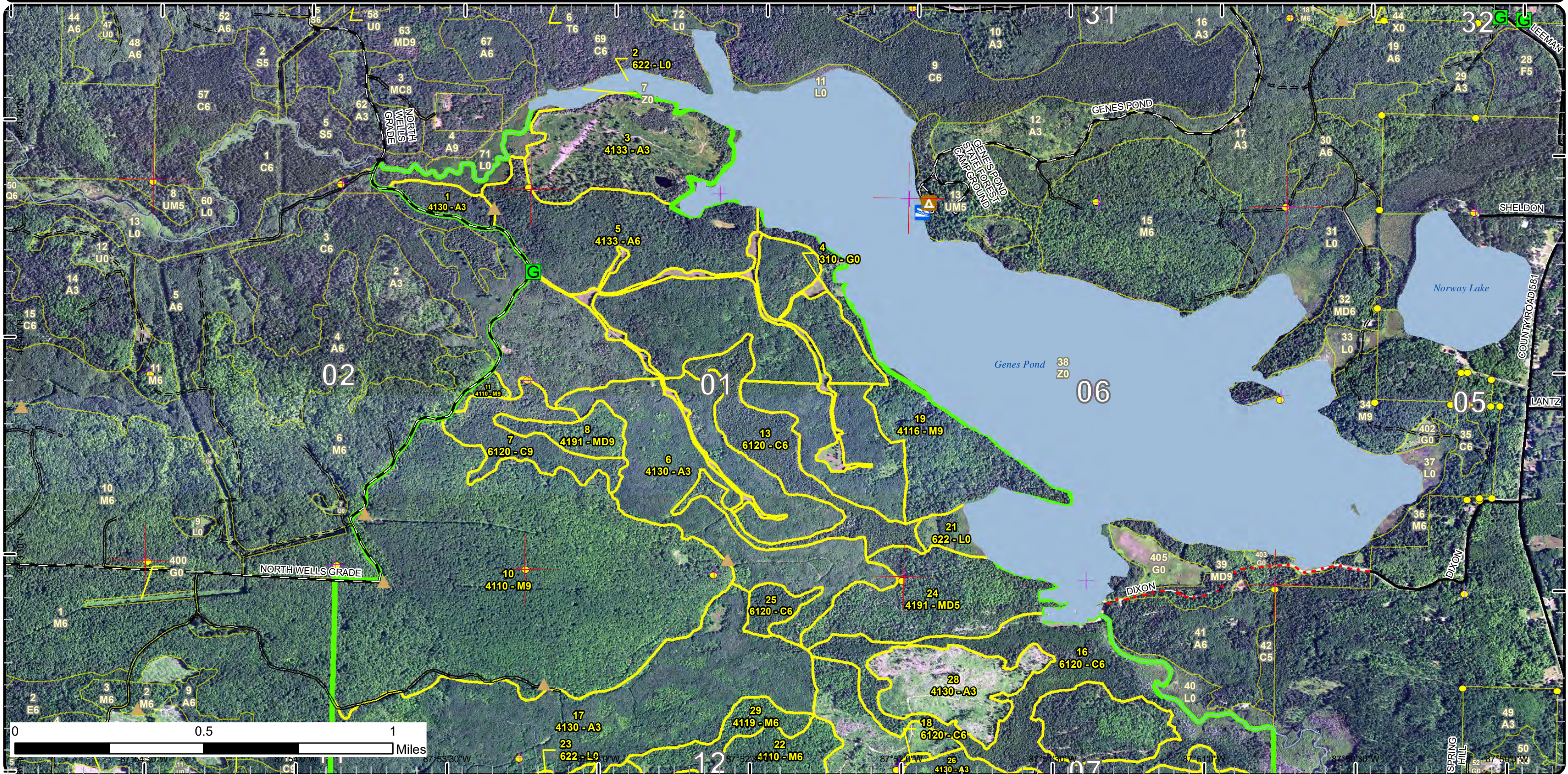


Stand Boundary Map



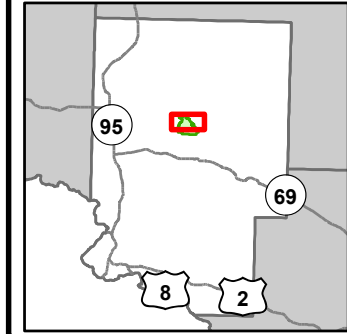
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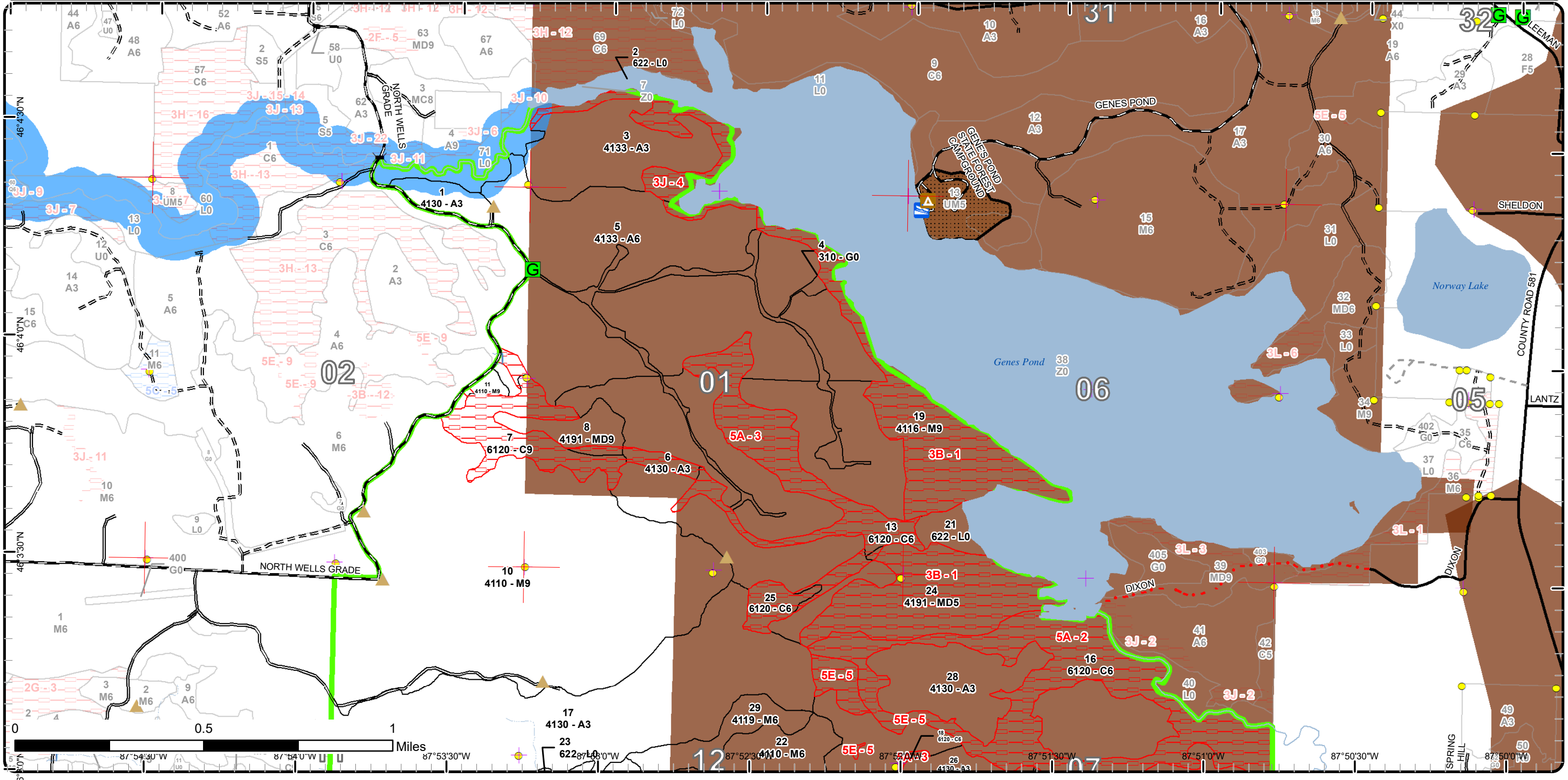


Special Conservation Areas

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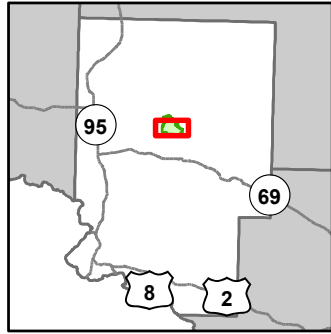


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- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Wildlife Management Areas
- State Forest Campground

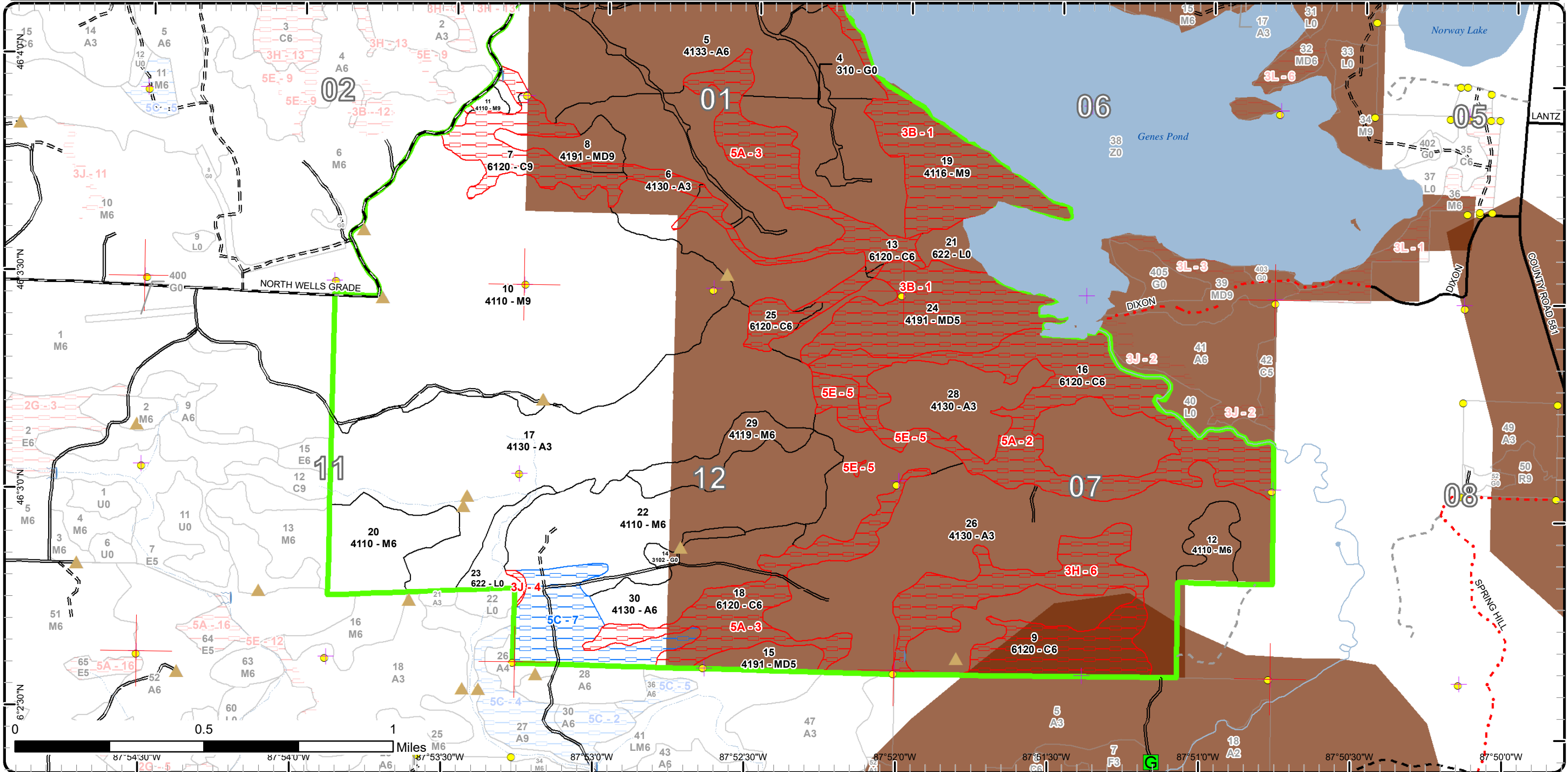


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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Cold Water Lakes
- Deer Winter Range
- Wildlife Management Areas
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



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	211	229	407	259	84	0	0	0	0	0	0	0	0	0	0	0	0	1189
Cedar	0	0	0	0	0	0	0	0	0	0	99	204	54	0	0	0	0	0	357
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Mixed Upland Deciduous	0	0	0	0	0	0	0	70	12	16	0	0	0	0	0	0	0	0	98
Northern Hardwood	0	0	0	0	0	0	0	0	22	88	148	0	0	0	0	0	0	338	596
Total	68	211	229	407	259	84	0	70	34	104	247	204	54	0	0	0	0	338	2307



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 58
Total Compartment Acres: 2,308

Commercial Harvest - 198
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	41	0	0	0	0	0	0	0	0	41
Mixed Upland Deciduous	12	0	0	14	0	0	0	0	0	26
Northern Hardwood	22	109	0	0	0	0	0	0	0	131
Total	75	109	0	14	0	0	0	0	0	198

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	198	0	0	0	0	0	0	21	0	219
Next Step	0	0	0	0	0	0	198	0	0	198
Total	198	0	0	0	0	0	198	21	0	417



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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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Approved Treatments:

4	12058004-NF	21.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass	No
<p><u>Prescription</u> Hunter walking trail opening maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
8	12058008-Cut	14.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	89	141-170	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged No
<p><u>Prescription</u> Final Harvest using 2" DBH spec. Leave Cedar, Hemlock, Pine, and Oak (if found). Also, leave conifers measuring 6" and less at stump height. In addition, retain 20 BA for seed source. Buffer stream to south 100 feet.</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, Birch, Mixed Deciduous, Mixed Conifers</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>										
15	12058015-Cut	12.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	78	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged No
<p><u>Prescription</u> Final Harvest using 2" DBH spec. Leave all Yellow Birch, Oak, and conifers. Also leave some Maple trees for additional diversity.</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, Mixed Deciduous, Mixed Conifers</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
22 12058022-Cut	108.6	4110 - Sugar Maple Association	Poletimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Thin targeting 80 BA. Leave Pine, Cedar, Hemlock, Oak if found.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Mixed Deciduous, Mixed Conifers										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
30 12058027-Cut	40.7	4130 - Aspen	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Final Harvest using 2" DBH spec. Leave Cedar, Hemlock, Pine, and Oak (if found). Also, leave conifers measuring 6" and less at stump height. Buffer water 100 feet.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, Maple, Mixed Deciduous, Mixed Conifers										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										
29 12058029-Cut	22.1	4119 - Mixed Northern Hardwoods	Poletimber Well	77	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<u>Prescription</u> Final Harvest using 2" DBH spec. Leave Cedar, Hemlock, Pine, and Oak (if found). Also, leave conifers measuring 6" and less at stump height.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, Maple, Ash, Basswood, Birch, Mixed Deciduous, Mixed Conifers										
<u>Regen:</u>										
<u>Other</u> Expect a mix of Aspen, Birch, Maple, Basswood.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2021										

Total Treatment 219.1
Acres Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 58
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions					
		With Condition	Not Available		5C	3B	3H	3J	5A	5E
1190	1100	43	47	Aspen	43			25	12	9
357	0	0	357	Cedar			89		268	
27	27	0	0	Herbaceous Openland						
41	41	0	0	Lowland Shrub						
98	27	0	72	Mixed Upland Deciduous		69			2	
595	523	0	72	Northern Hardwood		72			0	
2,308	1,718	43	547	Total Forested Acres	43	141	89	25	282	9
	74%	2%	24%	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	3B: Threatened, endangered, and special concern species	141	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5A: Not able to obtain desirable regeneration	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5A: Not able to obtain desirable regeneration	168	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Cedar stands and stream buffers							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 58
Year of Entry: 2022



4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	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 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	4130 - Aspen	Sapling Well	12.4	38	Unspecified	N/A	Harvested 1983																																																												
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2	622 - Lowland Shrub	Nonstocked	17.0		Unspecified	No																																																													
3	4133 - Aspen, Mixed Pine	Sapling Well	78.5	7	Immature	N/A	Harvested 2014. Pine retained during last harvest. BA of Pine varies from 0-100+.																																																												
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4	310 - Herbaceous Openland	Nonstocked	21.3		Unspecified	No																																																													
5	4133 - Aspen, Mixed Pine	Poletimber Well	246.7	32	Unspecified	N/A	Not all Aspen is pole-sized. Pine supercanopy stocking ranges from 0-100+ BA.																																																												
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7	6120 - Lowland Cedar	Sawtimber Well	34.7	107	Unspecified	N/A	Dense Cedar stand. Small upland inclusions found mixed throughout holding Maple/Birch/Cedar/Hemlock.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 16.1 89 141-170 N/A Stand situated on E-W ridge in swamp. More Sugar Maple in NE lobe.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Log/Pole/Sap	12	89
Paper Birch	25	Log/Pole	10	
Northern White Cedar	5	Log/XLog	16	
Yellow Birch	5	Log	14	
Hemlock	15	Log/XLog	16	
White Pine	2	XLog	18	
Sugar Maple	15	Log/Pole	12	
Balsam Poplar	3	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub

9 6120 - Lowland Cedar Poletimber Well 89.3 97 Unspecified N/A Small upland inclusion in far Southern reaches of stand surrounded by Black Ash drainages.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	10	Pole/Sapling	6	
Balsam Poplar	20	Log	14	
Balsam Fir	5	Pole	8	
Black Spruce	10	Pole	8	
Northern White Cedar	50	Pole	9	97
Tamarack	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	< 5 feet	Tall Shrub

10 4110 - Sugar Maple Association Sawtimber Well 333.7 98 81-110 N/A Thinned 2016. Much Ironwood on South aspect.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Pole/Log	10	98
Basswood	20	Pole/Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	Sapling
Leatherwood	Medium	< 5 feet	Tall Shrub

11 4110 - Sugar Maple Association Sawtimber Well 3.9 98 81-110 N/A Thinned 2016. Much Ironwood on South aspect.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Pole/Log	10	98
Basswood	20	Pole/Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	Sapling
Leatherwood	Medium	< 5 feet	Tall Shrub

12 4110 - Sugar Maple Association Poletimber Well 15.9 80 81-110 N/A Thinned 2006

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole/Log	9	80
Basswood	40	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	6120 - Lowland Cedar	Poletimber Well	53.7	117	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log	12	
White Spruce	10	Pole/Log	10	
Northern White Cedar	80	Pole	9	117
Tamarack	5	Pole	9	

14	3102 - Grass	Nonstocked	5.2	0	Unspecified	No	
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15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	12.3	78	51-80	N/A	Much windthrow in stand. Situated on E-W rock outcropping.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Log	14	78	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	3	Log	14		Red Maple	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce	15	Pole/Log/Sap	9					
Basswood	5	Pole	8					
Sugar Maple	15	Pole/Sapling	6					
Paper Birch	20	Pole/Sapling	6					
Red Maple	2	Log	12					

16	6120 - Lowland Cedar	Poletimber Well	113.9	107	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	10	Pole/Sapling	6		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Poplar	10	Log	14		Black Ash	Medium	Variable	Sapling
Balsam Fir	5	Pole	8		Balsam Fir	Medium	Variable	Sapling
Black Spruce	10	Pole	8					
Northern White Cedar	60	Pole	9	107				
Tamarack	5	Log/Pole	10					

17	4130 - Aspen	Sapling Well	220.8	25	Immature	N/A	Small strip of older Aspen along Northern boundary. Many low areas within stand. Harvested 1996 with reserves of Cedar, Pine, and Hemlock.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling/Pole	3	25	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Sapling	3					
White Spruce	5	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18 6120 - Lowland Cedar Poletimber Well 55.7 109 Unspecified N/A Less Cedar, more Black Ash North of road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	15	Pole/Sapling	6		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Poplar	10	Log	14					
Balsam Fir	5	Pole	8					
Black Spruce	5	Pole	8					
Northern White Cedar	60	Pole	9	109				
Tamarack	5	Log/Pole	10					

19 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 71.6 80 111-140 N/A Less Aspen and more Hardwood to North. Scattered Oaks.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log/Pole	10	80	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	30	Log/Pole	10		White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	5	Log	12		Hazelnut (American)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	25	Log/Pole	14	80	Sedges	High	Unspecified	Non-Wood
Northern White Cedar	2	Log	12					
Yellow Birch	2	Log	14					
Red Oak	4	Log	14					
Basswood	2	Log	10					

20 4110 - Sugar Maple Association Poletimber Well 39.5 97 81-110 N/A Thinned 2005

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole	10	97	Ironwood	Low	10 - 20 feet	Sapling
Basswood	40	Log	14					
Paper Birch	10	Pole	10					

21 622 - Lowland Shrub Nonstocked 10.2 Unspecified No

22 4110 - Sugar Maple Association Poletimber Well 108.6 93 111-140 N/A Thinned 2004.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Pole/Log/Sap	9	93	Sugar Maple	Medium	10 - 20 feet	Sapling
Basswood	40	Pole	10		Ironwood	Medium	10 - 20 feet	Sapling
White Ash	5	Pole/Sap/Log	8		White Ash	Medium	Variable	Sapling
Red Maple	5	Pole/Log	8		Leatherwood	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Log	14					

23 622 - Lowland Shrub Nonstocked 13.8 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 69.7 65 51-80 N/A Spruce/Fir almost completely dead from Spruce Budworm outbreak. Much windthrow. Rocky site.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Sapling	6	
Red Maple	30	Pole/Sapling	7	65
Paper Birch	10	Pole	8	
Quaking Aspen	10	Log	14	
Northern White Cedar	5	Pole	8	
White Spruce	15	Pole/Sapling	7	
White Pine	5	Log/XLog	16	
Balsam Fir	10	Sapling/Pole	4	
Black Ash	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Spruce	Medium	Variable	Sapling

25 6120 - Lowland Cedar Poletimber Well 9.8 97 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Pole/Sapling	6	
Balsam Poplar	10	Log	14	
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	10	Pole	8	
Northern White Cedar	55	Pole	9	97
Tamarack	5	Log/Pole	10	
Quaking Aspen	5	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

26 4130 - Aspen Sapling Well 228.6 15 Immature N/A Harvested 2006

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	98	Sapling	1	15
Balsam Fir	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

28 4130 - Aspen Sapling Well 132.3 4 Immature N/A Harvested 2017 with Pine, Maple, Birch, Spruce, Fir residuals.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	7	
Paper Birch	5	Pole	8	
Quaking Aspen	80	Sapling	1	4
Balsam Fir	10	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 4119 - Mixed Northern Hardwoods Poletimber Well 22.1 77 81-110 N/A Varying stocking levels. White Birch and Aspen in declining health.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Pole/Sapling	7		Sugar Maple	Medium	Variable	Sapling
Basswood	15	Pole/Log	9		Ironwood	High	Variable	Sapling
Quaking Aspen	7	Log	16		Balsam Poplar	Low	Variable	Sapling
Balsam Poplar	8	Pole/Log	9		White Spruce	Low	Variable	Sapling
Paper Birch	20	Pole	7					
Red Maple	25	Pole/Log	9	77				
Yellow Birch	5	Pole/Sapling	7					
White Spruce	5	Pole/Sapling	6					

30 4130 - Aspen Poletimber Well 84.3 48 Unspecified N/A Varying ages and stocking levels. A few wet areas. Much mortality on the Spruce and Fir due to Spruce Budworm.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	65	Pole	8	48	Hazelnut (American)	Low	< 5 feet	Tall Shrub
Balsam Poplar	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce	10	Pole/Sap/Log	8					