



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12008

Entry Year 2023

Acreage: 2,232

County Dickinson

Management Area: Floodwood Plains

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T44N, R29W, Sections 3, 4, 5, 8, 9 and 10

Identified Planning Goals:

Continue managing aspen with varying age classes throughout the compartment. Keep a regular thinning schedule to capture mortality and increase quality in hardwoods. Sustain the integrity of lowland stands used by deer. Promote diversity for current and future wildlife and sportsman.

Soil and topography:

This compartment has everything from Cathro muck, fine sandy loam, and rubicon sand. Most areas are fairly flat with some areas with minor rolling hills.

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

This is fairly solid state ownership with a few 40's of private land with camps on them.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The northeastern region of this compartment contains Schwartz Creek and the southern region of this compartment borders Twomile Creek.

Schwartz Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperature is 60.6 °F (cold stream). 300' buffers are recommended for Schwartz Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Twomile Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperatures range from 60.6 to 61.9 °F (cold stream). 300' buffers are recommended for Twomile Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is part of the Floodwood Deeryard. About 30% of this compartment is cedar or lowland conifer type, with the cedar being some of the highest quality on the forest. Every attempt should be made to protect these stands presently and in the future. White pine and hemlock have declined substantially. Efforts to increase the upland conifer component especially on those sites that have a natural tendency to succeed to those species would increase species and structural diversity and benefit a wide range of wildlife species. Openings in this compartment will be treated if resources permit.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. Precambrian Archean granite and gneiss subcrop below the glacial drift. There is not a current economic use for these rocks, although they might have building stone potential. A rock quarry lies six miles to the northeast. Iron mines are located approximately fifteen miles to the south. A gravel pits are indicated within two miles to the west and a quart mile to the south east. There appears to be good gravel potential in the compartment. Most of this

area was previously leased and Section 3 is currently leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

This access is through the Floodwood Road which goes through some of Marquette county with several logging roads moving into the interior of the compartment.

Survey Needs:

Survey may be needed.

Recreational Facilities and Opportunities:

Hunting

Fire Protection:

Fire protection provided by Crystal Falls FMU.

Additional Compartment Information:

The following reports from the Inventory are attached:

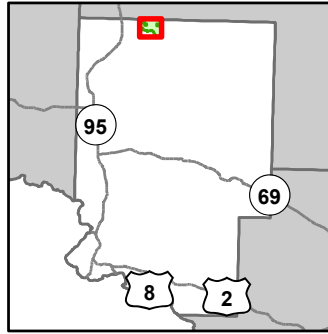
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

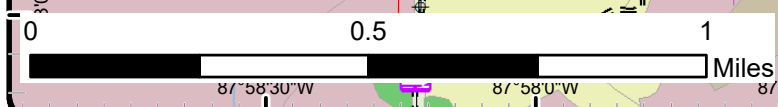
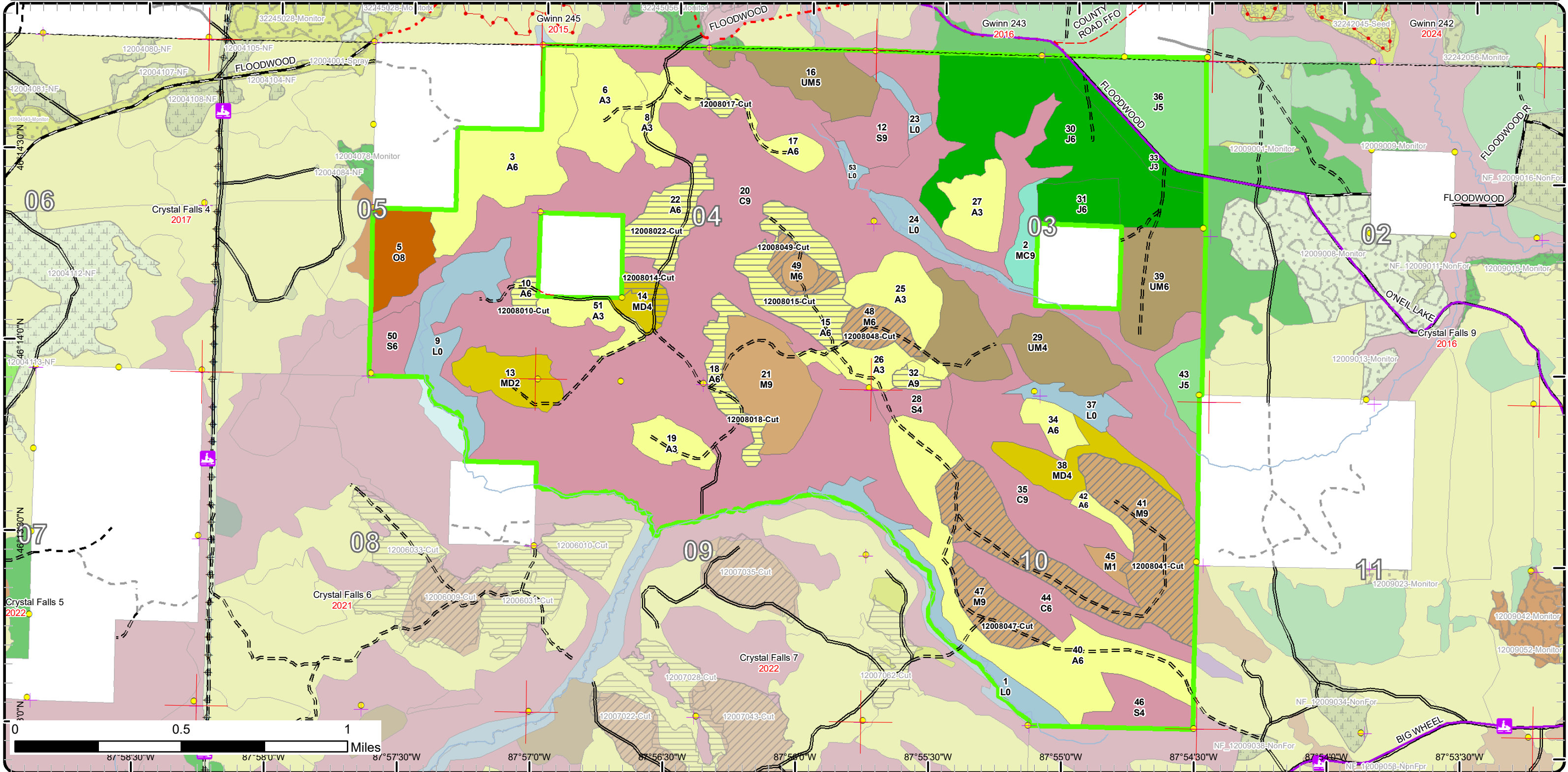
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 8
 T44N, R29W, Sec. 3-5, 8-10
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Floodwood Plains
 YOE: 2023
 Acres: 2232 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 12/28/2021
 Map Phase: Post-Review



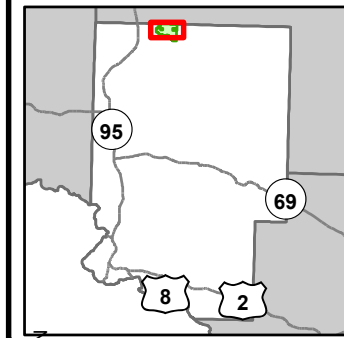
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- · - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- - ● ORV License & Trail Permit
- Designated Snowmobile Trails
- Perennial River
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub



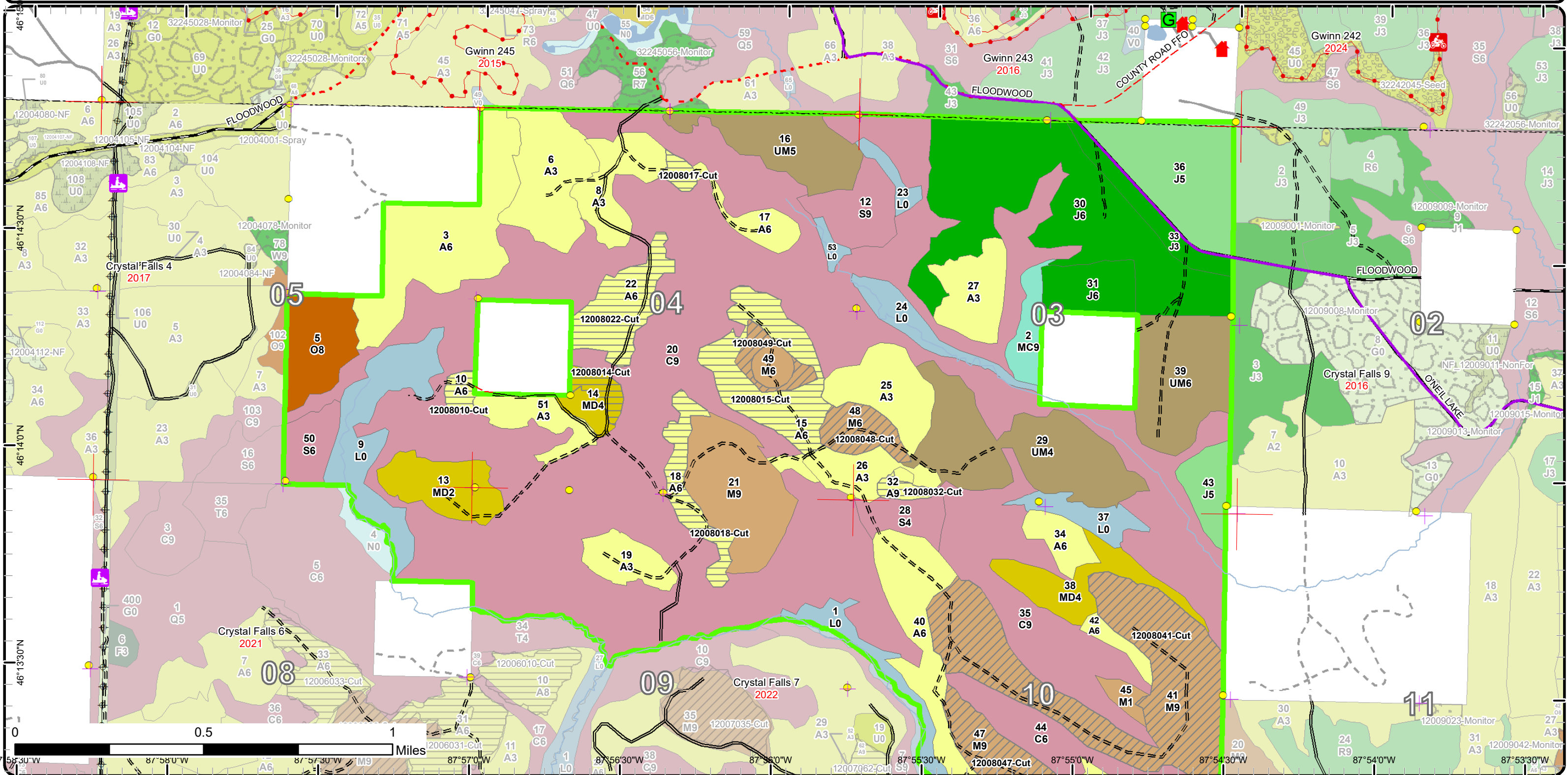
46°14'30"N 46°13'30"N 46°12'30"N 46°11'30"N 46°10'30"N 46°9'30"N 46°8'30"N 46°7'30"N 46°6'30"N 46°5'30"N 46°4'30"N 46°3'30"N 46°2'30"N 46°1'30"N 46°0'30"N 45°59'30"N 45°58'30"N 45°57'30"N 45°56'30"N 45°55'30"N 45°54'30"N 45°53'30"N
 87°58'30"W 87°58'0"W 87°57'30"W 87°57'0"W 87°56'30"W 87°56'0"W 87°55'30"W 87°55'0"W 87°54'30"W 87°54'0"W 87°53'30"W

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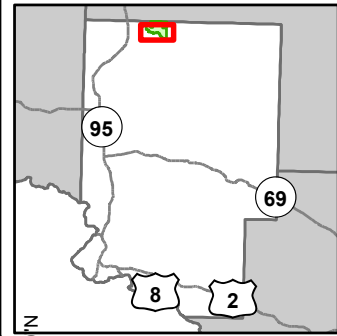


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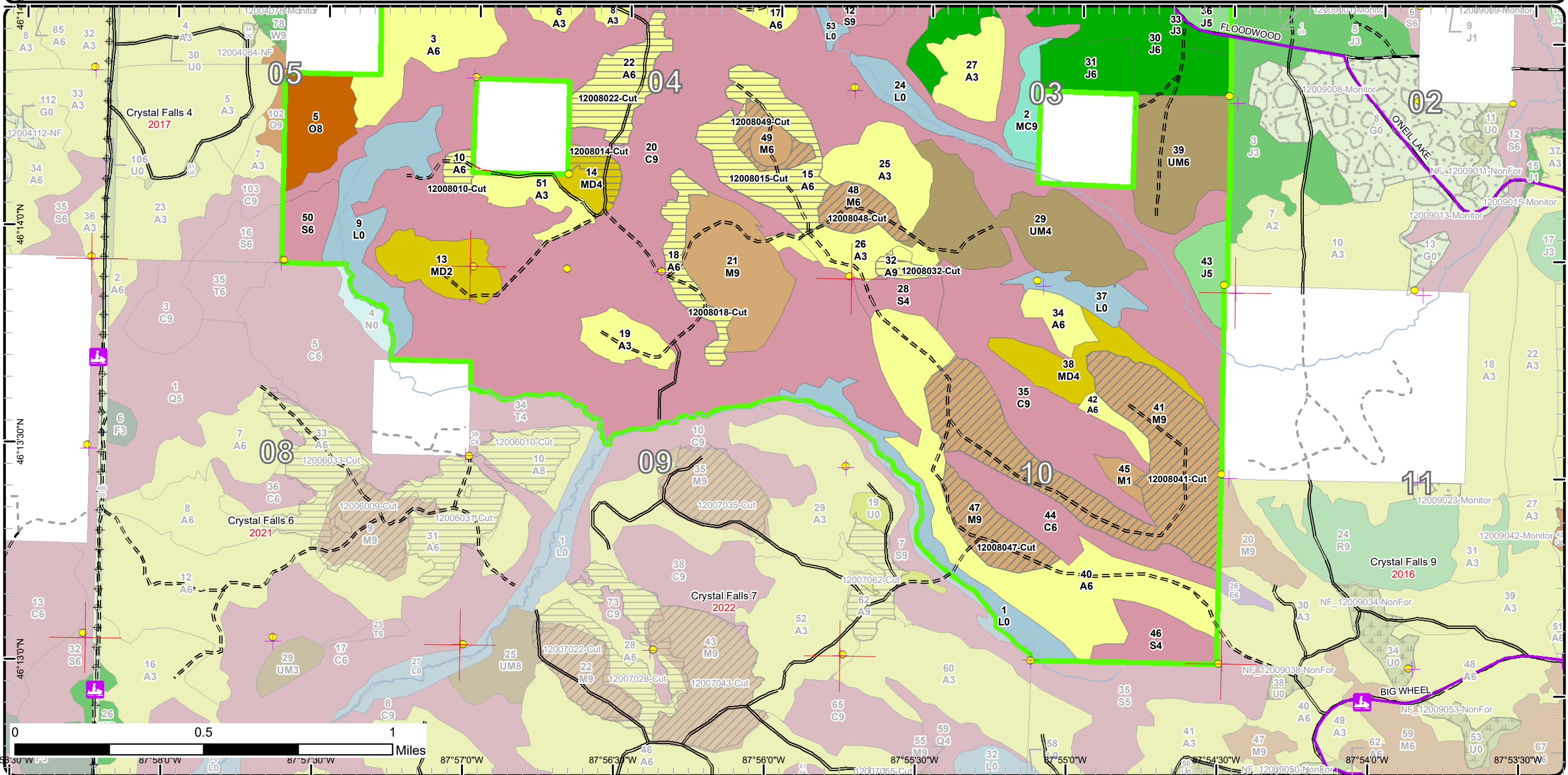


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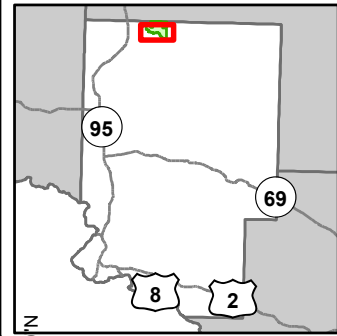


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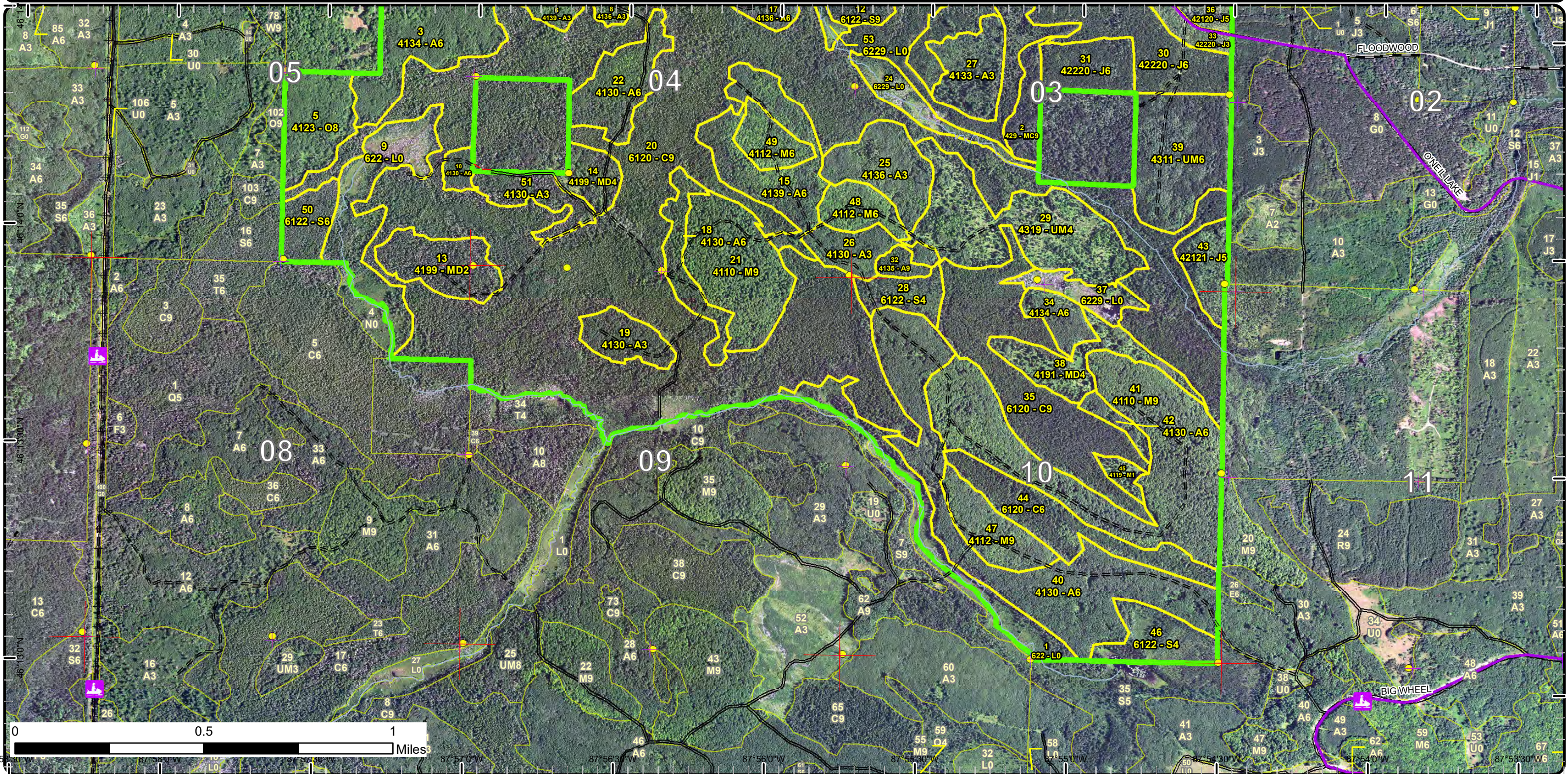


Stand Boundary Map

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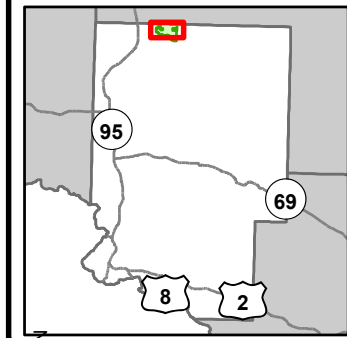


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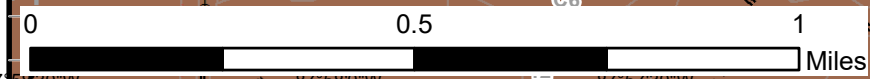
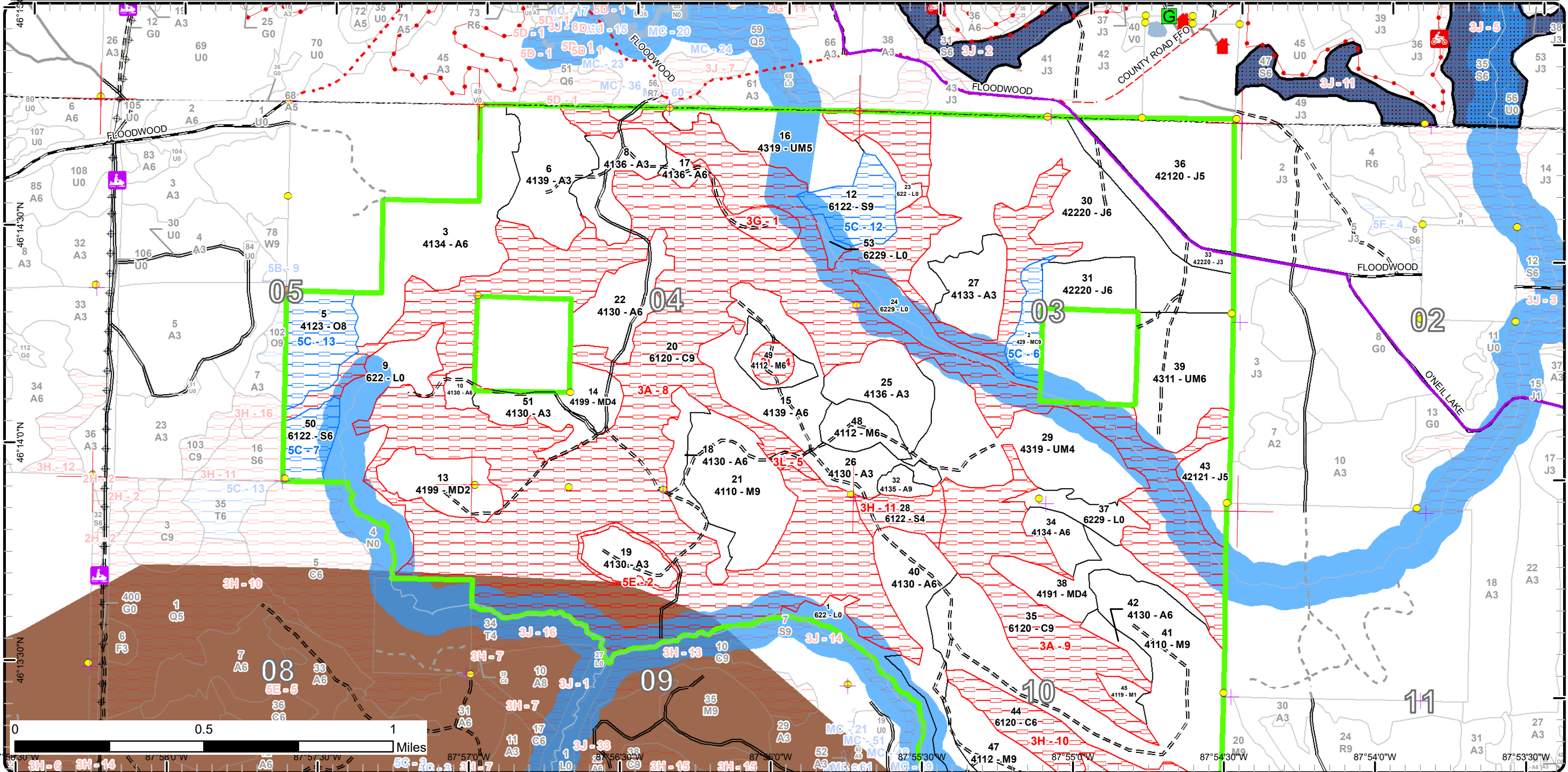


Special Conservation Areas

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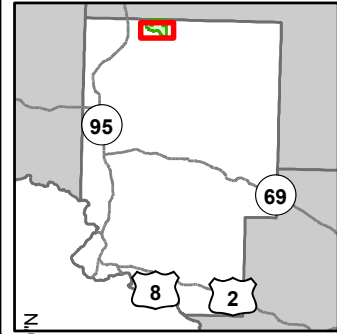
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- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Spring or Seep



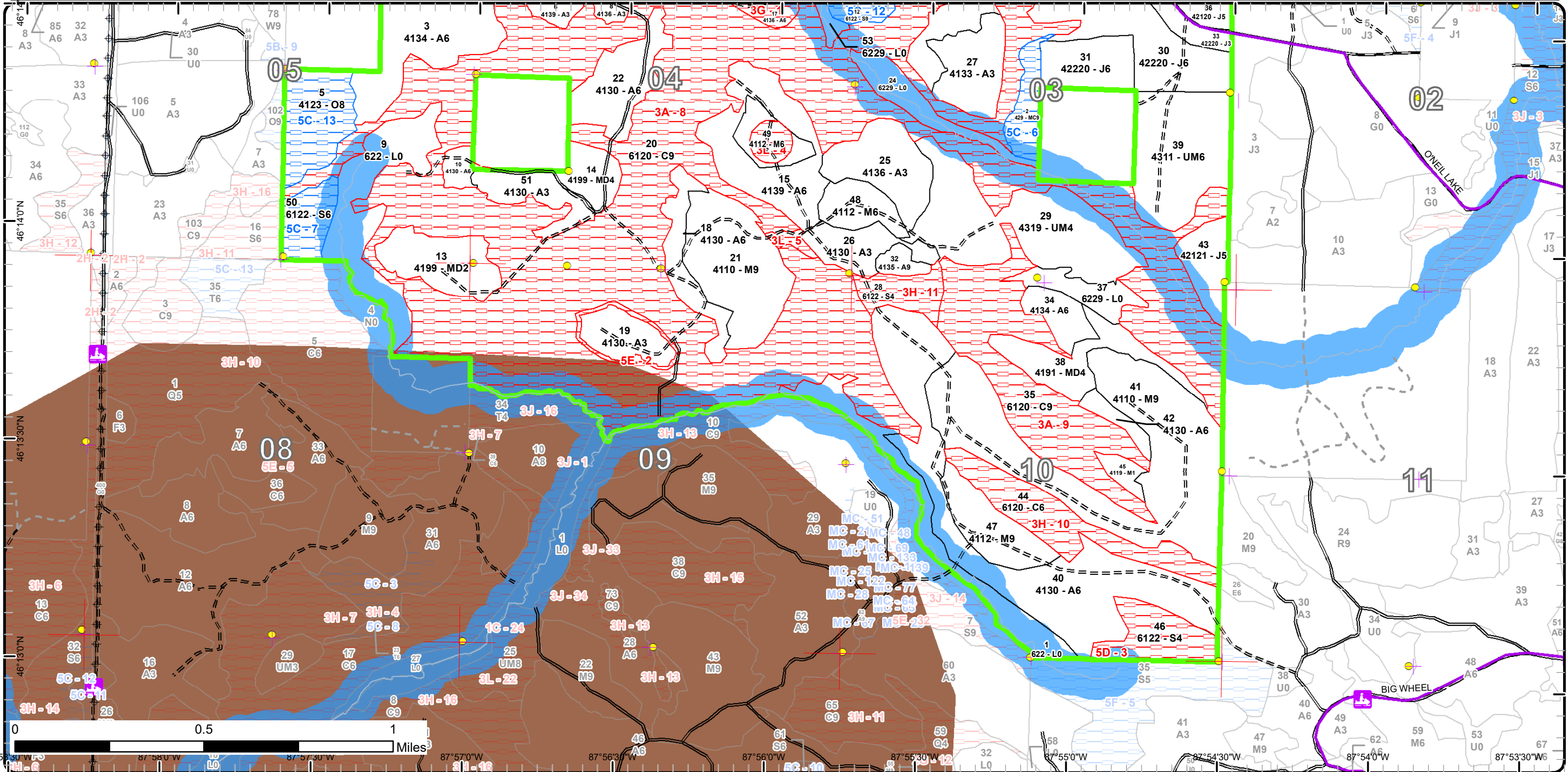
0 0.5 1 Miles

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- Perennial River
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	74	0	97	192	21	93	0	5	0	0	0	0	0	0	0	0	0	481
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	827	0	0	0	0	0	827
Jack Pine	0	0	0	146	37	56	0	0	0	0	0	0	0	0	0	0	0	0	239
Lowland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	23	14	38	0	0	0	0	0	0	0	75
Mixed Upland Deciduous	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	67
Northern Hardwood	0	0	0	0	5	0	0	0	0	29	192	0	0	0	0	0	0	0	226
Oak	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30
Upland Conifers	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	161	0	0	0	0	0	0	0	0	0	0	0	0	0	161
Total	114	101	0	243	395	77	93	0	41	43	260	0	827	0	0	0	0	40	2233



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 8
Total Compartment Acres: 2,232

Commercial Harvest - 275
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	103	0	0	0	0	0	0	0	0	103
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	165	0	0	0	165
Total	111	0	0	0	0	165	0	0	0	275

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	275	0	0	0	0	0	0	0	0	275
Next Step	0	0	0	0	0	0	111	0	0	111
Total	275	0	0	0	0	0	111	0	0	386



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:

10	12008010-Cut	5.2	4130 - Aspen	Poletimber Well	49	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut pine and cedar. Do not cut spruce/fir with one pulp stick and less.</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, spruce and fir</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
14	12008014-Cut	7.1	4199 - Other Mixed Upland Deciduous	Poletimber Poor	56	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut pine and cedar. Green tree two, 2 stick or greater, spruce and fir for every acre of treatment.</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, spruce, fir and pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Can choose to exclude or include areas with predominately smaller trees.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
15	12008015-Cut	42.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	56	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Green tree 10 hardwood trees. Do not cut spruce and fir with one pulp stick and less. Do not cut small area of stand between stand 20.</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, northern hardwoods associates, pine, spruce and fir</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 /2022</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
17 12008017-Cut	4.1	4136 - Aspen, Mixed Conifer	Poletimber Well	48	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar and pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, spruce, fir and pine <u>Other Comment:</u> No retention. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
18 12008018-Cut	18.5	4130 - Aspen	Poletimber Well	56	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar, oak, hemlock and pine. Leave 1 stick and less spruce/fir. Additionally, green tree one 2 stick or greater tree (preferably spruce or fir) for every acre of treatment. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> aspen, northern hardwood associates and pine <u>Other Comment:</u> South portion of the stand is the best area for retention. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
22 12008022-Cut	28.6	4130 - Aspen	Poletimber Well	56	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<u>Prescription</u> Cut all trees 2 inches and greater. Green tree 15 hardwood tree. Do not cut pine, cedar, hemlock and oak. Do not cut spruce/fir with one pulp stick and less. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, spruce, fir, pine and hardwood associates <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
32 12008032-Cut	4.2	4135 - Aspen, Cedar Sawtimber	Well	79	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all tree 2 inches and greater. Do not cut cedar, hemlock, oak and pine. Do not cut spruce/fir with one pulp stick and less. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> aspen, northern hardwood associates, pine <u>Other Comment:</u> No retention. Stand is less than 10 acres in size. Red line out cedar. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										



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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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41	12008041-Cut	118.6	4110 - Sugar Maple Association	Sawtimber Well	94	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to a basal area of 80. Cut all aspen and paper birch. Do not cut cedar, oak, pine and hemlock.

Specs:

Next Step

Treatments:

Acceptable northern hardwood associates

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

47	12008047-Cut	23.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	94	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to a basal area of 80. Cut all aspen and paper birch. Do not cut cedar, oak, pine or hemlock.

Specs:

Next Step

Treatments:

Acceptable northern hardwoods associates

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

48	12008048-Cut	14.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	82	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to a basal area of 80. Do not cut cedar and hemlock.

Specs:

Next Step

Treatments:

Acceptable northern hardwood associates

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
49 12008049-Cut	7.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	83	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 2 inches and greater. Cut all spruce and fir with 1 or more pulpwood sticks. Do not cut 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> Buffer nest 300 feet, if found to be active. If not active, buffer 100 feet.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 275.4
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 8

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
480	466	0	14
827	2	0	825
239	239	0	0
114	114	0	0
76	0	39	37
66	66	0	0
226	220	0	6
30	0	30	0
13	0	13	0
161	161	0	0
2,232	1,268	82	882
	57%	4%	40%

Dominant Site Conditions

	Dominant Site Conditions												
	5C	3A	3G	3H	3L	5D	5E						
Aspen			12		3	0							
Cedar		783		37							4		
Jack Pine	0												
Lowland Shrub													
Lowland Spruce/Fir	39			14		22							
Mixed Upland Deciduous													
Northern Hardwood					6								
Oak	30												
Upland Conifers	13												
Upland Mixed Forest		0											
Total Forested Acres	82	783	12	51	9	22	4						
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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3G: Other Influence zones - See comments	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Variable BA as some areas have older aspen falling out and pockets of dead spruce and fir. Road going through narrow portion of stand is rough and wet. A stream crosses the road along the narrow section of the stand with an old culvert in place. Along the road and the far east bubble of the stand are cuttable but would be best suited to be left to natural succession. I would not recommend harvesting of the east half of stand due to acreage, road factors and wildlife benefit.</p>								
2	Unavailable		5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention from Loud Demolition timber sale #1207413 was left as buffer around entire stand 19 for swamp. (2020)</p>								

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3	Unavailable	5D: Unproductive Forest Land	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet and sparsely timbered.							
4	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3L: Other wildlife concerns	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Leave this area out of adjacent cut. This area completes corridor and has a decent amount of spruce/fir. Use as long-term retention.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand provides deer cover. Small tributary runs parallel to stand and requires buffer. Only a small pocket could be harvested and with no adjacent stand to pair with a harvest is unrealistic at this point.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer cover but not deer wintering area							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	702	5A: Not able to obtain desirable regeneration	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified
Comments: This is a very large contiguous lowland stand making up a large portion of the compartment. A small area on the south side of the stand is in deer wintering area. However, the entire stand provides good deer cover.							

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9	Unavailable	3A: Conservation Values incompatible with harvest at this time	81	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Deer cover							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	37	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Most of this area would be too wet to cut. Could harvest north edge but its deer yard.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer cover but not deer wintering area							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An overstory of oak was retained in this stand after treatment in 2016.							

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 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	622 - Lowland Shrub	Nonstocked	30.8	0	Unspecified	No	Sparse black spruce, cedar, bam and tamarack. Stand is along river's edge.																																																			
2	429 - Mixed Upland Conifers	Sawtimber Well	13.4	73	111-140	N/A	60% upland and 40% lowland. This is an even aged stand that is transitioning into an uneven aged stand as over-mature jack pine and aspen falls out. Lowland and upland black spruce present. BA is very variable ranging from 80 to 180. Stand slopes to lowland drainage with small tributary.																																																			
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3	4134 - Aspen, Spruce/Fir	Poletimber Well	69.0	36	Unspecified	N/A	Trace amount of super canopy XL log red pine. Some older aspen along the edges. Low bog area, 1.5 acres, on north line of stand and a lowland forested area, about 1 acre, on the south side of the stand. 2 acres of log size red pine on west corner of stand.																																																			
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5	4123 - Red Oak	Sawtimber Medium	29.9	90	1-50	N/A	Some hills in this stand are rather steep. Mainly oak overstory with scattered pine. Sub-canopy has mostly aspen and red maple regen from 2016 cut.																																																			
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8	4136 - Aspen, Mixed Conifer	Sapling Well	24.9	24	Unspecified	N/A	Super canopy white pine and red pine present. Trace amount super canopy log sized oak.																																																																
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12	6122 - Black Spruce	Sawtimber Well	23.3	75	141-170	N/A	BA high in some areas and very low in others. 40/60% upland/lowland. Pockets of major spruce budworm damage and other areas in great shape. Cutting may help regenerate spruce budworm damage as current regeneration is poor. However, this is deer yard so current stand should be retained.																																																																
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13	4199 - Other Mixed Upland Deciduous	Sapling Medium	26.8	5	Immature	N/A	Trace amount of cherry in canopy. Trace amount of super canopy black spruce and tamarack Super canopy trees left as long-term retention from Loud Demolition T-Sale.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 4199 - Other Mixed Upland Deciduous Poletimber Poor 13.3 56 Unspecified N/A Lots of different ages. North half of the stand is older. Opening is almost entirely filled in. Lots of spruce/fir have spruce budworm damage.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	1	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	30	Log/Pole	10	56	Black Cherry	Trace	Variable	Sapling
Balsam Poplar	50	Pole	8	56	Quaking Aspen	Low	Variable	Sapling
Paper Birch	2	Pole	8		Balsam Poplar	High	Variable	Sapling
White Pine	1	Pole	8		White Spruce	Medium	Variable	Sapling
Black Spruce	15	Pole	6		Blue Spruce	Medium	Variable	Sapling
Black Cherry	1	Pole	5					

15 4139 - Aspen, Mixed Deciduous Poletimber Well 45.7 56 Unspecified N/A Trace amounts of cedar, and white pine. Some older aspen also present but much of it is falling down. (Still need to update)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Log/Pole	10		Balsam Fir	Low	Variable	Seeding
Quaking Aspen	55	Pole/Log	9	56	White Spruce	Low	Variable	Seeding
Balsam Fir	5	Pole	8					
Sugar Maple	10	Log/Pole	10	83				
Red Maple	15	Log/Pole	10					

16 4319 - Mixed Upland Forest Poletimber Medium 37.7 35 1-50 N/A Lots of open area filling in with spruce, fir, cherry and pine. A few solid patches of aspen and Bam, For the most part even aged with younger ages filling in gaps. A few super canopy trees present. Trace tamarack in canopy. About 0.5 acres from adjacent red pine cut in Marquette County included.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	7		Balsam Fir	High	Variable	Sapling
Balsam Fir	30	Pole	7	35	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Pine	2	Pole	8		Red Maple	Medium	Variable	Sapling
Red Maple	8	Pole	5		White Pine	Medium	Variable	Sapling
Black Cherry	5	Pole	5		Black Spruce	Medium	Variable	Sapling
Black Spruce	8	Pole	6		White Spruce	Medium	Variable	Sapling
White Spruce	8	Pole	6		Red Pine	Low	Variable	Sapling
Sugar Maple	1	Pole	5		Cherry (spp.)	Medium	Variable	Sapling
Quaking Aspen	25	Pole	6		Tamarack	Low	Variable	Sapling
Balsam Poplar	10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
17	4136 - Aspen, Mixed Conifer	Poletimber Well	15.7	48	Unspecified	N/A	Variable BA as some areas have older aspen falling out and pockets of dead spruce and fir. Road going through narrow portion of stand is rough and wet. A stream crosses the road along the narrow section of the stand with an old culvert in place. Along the road and the far east bubble of the stand are cuttable but would be best suited to be left to natural succession. I would not recommend harvesting of the east half of stand due to acreage, road factors and wildlife benefit.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		65	Pole	8	48	Balsam Fir		High	Variable	Sapling	
White Pine		5	XLog	20		Balsam Fir		Medium	Variable	Pole	
Red Maple		5	Pole	9		Cherry (spp.)		Low	Variable	Sapling	
Northern White Cedar		5	Log/Pole	10		Paper Birch		Low	Variable	Sapling	
Red Pine		5	XLog	20		Red Maple		Low	Variable	Sapling	
White Spruce		2	Log/Pole	12		Sugar Maple		Trace	Variable	Sapling	
Black Spruce		3	Log/Pole	10		Northern White Cedar		Trace	< 5 feet	Seeding	
Paper Birch		5	Pole/Log	10		Black Spruce		Low	Variable	Sapling	
Balsam Poplar		5	Log/Pole	10							
18	4130 - Aspen	Poletimber Well	18.5	56	Unspecified	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Quaking Aspen		70	Log/Pole	10	56	Balsam Fir			Low	Variable	Pole
Red Maple		5	Log/Pole	12		White Spruce			Low	Variable	Sapling
Paper Birch		5	Log/Pole	10		Balsam Fir			Medium	Variable	Sapling
Balsam Poplar		10	Log/Pole	10							
White Pine		2	XLog/Log	20							
Sugar Maple		3	Log/Pole	10							
Northern White Cedar		2	Log/Pole	10							
Black Spruce		3	Pole	8							
19	4130 - Aspen	Sapling Well	16.1	5	Immature	N/A	Scattered trace amounts of super canopy white pine, red pine and cedar. Retention from Loud Demolition timber sale #1207413 was left as buffer around entire stand for swamp. (2020)				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		50	Sapling	1	5	Wild Red Raspberry		High	< 5 feet	Tall Shrub	
Bigtooth Aspen		50	Sapling	1							
20	6120 - Lowland Cedar	Sawtimber Well	708.2	119	141-170	N/A	Stand contains multiple streams and drainages. Some spruce budworm damage in spruce and fir pockets. Trace amount of pine. 1 acre of red pine cut from adjacent Marquette County, i.e., small patch north of Stand 8.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		18	Log/Pole	10		Balsam Fir		Low	Variable	Sapling	
Northern White Cedar		60	Log/Pole	12	119	Black Spruce		Medium	Variable	Sapling	
Tamarack		10	Log/Pole	10		Tag Alder		Low	Variable	Tall Shrub	
Quaking Aspen		2	Log/Pole	12							
Balsam Poplar		10	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 4110 - Sugar Maple Association Sawtimber Well 49.9 99 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	90	Log	13	99	Sugar Maple	Low	< 5 feet	Seeding
Red Maple	10	Log/Pole	10		Red Maple	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling
					Leatherwood	Low	< 5 feet	Tall Shrub
					White Spruce	Trace	Variable	Sapling
					Balsam Fir	Trace	Variable	Sapling
					Wild Red Raspberry	Medium	< 5 feet	Tall Shrub
					Sugar Maple	Medium	Variable	Pole

22 4130 - Aspen Poletimber Well 28.6 56 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Log	9		Balsam Fir	Medium	Variable	Pole
Quaking Aspen	70	Log/Pole	10	56	Balsam Fir	Medium	Variable	Sapling
Sugar Maple	10	Log/Pole	11	83	Sugar Maple	Medium	< 5 feet	Seeding
Red Maple	15	Log	13	83	Ironwood	Medium	Variable	Sapling

23 622 - Lowland Shrub Nonstocked 5.9 Unspecified No

24 6229 - Mixed lowland shrub Nonstocked 16.2 Unspecified No Weekend creek runs through this lowland.

25 4136 - Aspen, Mixed Conifer Sapling Well 29.5 24 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling/Pole	4		White Spruce	Low	Variable	Sapling
Quaking Aspen	40	Sapling/Pole	4	24	Sugar Maple	Medium	< 5 feet	Seeding
Balsam Fir	15	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Poplar	25	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	10	Sapling/Pole	4		Tag Alder	Trace	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
26	4130 - Aspen	Sapling Well	17.2	24	Unspecified	N/A	Trace yellow birch and cedar in canopy.																																																																					
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27	4133 - Aspen, Mixed Pine	Sapling Well	24.9	25	Immature	N/A	Larger super canopy red and white pine concentrated to the south.																																																																					
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28	6122 - Black Spruce	Poletimber Poor	14.3	83	1-50	N/A	Trace amounts of cherry and cedar in canopy. Small skinny patch of decent black spruce along the north edge of stand. However, its only about 4 acres.																																																																					
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29	4319 - Mixed Upland Forest	Poletimber Poor	70.9	34	1-50	N/A	After spending time with the silviculturalist in this compartment looking at regeneration in other stands, I feel regeneration in this stand is minimally acceptable and will not need more treatment (2010). This stand has a variety of ages but for the most part is even aged. This stand regenerated poorly. This stand is rocky and has poor access. It isn't a good candidate for trenching or planting. Theoretically, the best option for planting would be to plant white pine in open areas, without trenches. This could supply cover for deer.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
30	42220 - Natural Jack Pine	Poletimber Well	128.0	25	Unspecified	N/A	Just getting to be a pole sized stand. Trace super canopy white pine.																																										
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31	42220 - Natural Jack Pine	Poletimber Well	20.9	34	81-110	N/A	All upland except for a small low area.																																										
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32	4135 - Aspen, Cedar	Sawtimber Well	5.2	79	141-170	N/A	Small pocket of older aspen and cedar. About 4 acres is aspen and 1 acre is cedar.																																										
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33	42220 - Natural Jack Pine	Sapling Well	18.4	20	Immature	N/A																																											
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34	4134 - Aspen, Spruce/Fir	Poletimber Well	12.1	34	Unspecified	N/A	This was part of a much larger stand that did not regenerate where there wasn't any aspen so I cut out the open parts (2010).																																										
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35	6120 - Lowland Cedar	Sawtimber Well	81.4	119	171-200	N/A																																																																											
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36	42120 - Planted Jack Pine	Poletimber Medium	55.7	44	Unspecified	N/A	This stand has primarily 2 ages. However, there is a small pocket that got harvest in-between the most recent cut and the older cut. The latter pocket is about 2.5 acres.																																																																										
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37	6229 - Mixed lowland shrub	Nonstocked	13.4		Unspecified	No																																																																											
38	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	26.3	61	1-50	N/A	This cut was a mixed upland conifer cut with some deciduous. All trees that yielded a pulp stick were cut. This stand has a variety of ages as the stand has regenerated poorly. It looks like most of what was left of the previous stand was smaller maple. The stand now has residue maple from the last cut, some regeneration from the cut and variety of ages filling in openings. This stand is rocky and has poor access. It isn't a good candidate for trenching or planting. Theoretically, the best option for planting would be to plant white pine in open areas, without trenches. This could supply cover for deer.																																																																										
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39	4311 - Pine, Aspen Mix	Poletimber Well	52.0	33	81-110	N/A	Trace amount of balsam fir in canopy.																																																																										
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40	4130 - Aspen	Poletimber Well	104.4	32	Unspecified	N/A	Trace amounts of larger paper birch and maple in overstory.																																																												
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41	4110 - Sugar Maple Association	Sawtimber Well	118.6	94	141-170	N/A	Trace amounts of paper birch and hemlock in canopy. Good amount of sugar maple seedlings. BA ranges from 90 to 160. Most of stand has a BA around 160.																																																												
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42	4130 - Aspen	Poletimber Well	6.2	34	Unspecified	N/A	This area was part of a larger sale and stand that regenerated where there were aspen clones as was this stand and did not where it was all conifers which are now typed as another stand (2010). Most of stand is on a slope that runs down to the lowland stand to the west (2012).																																																												
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43	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	16.2	34	Unspecified	N/A	Machine planted in 1986. Planting had a 20% seedling survival rate. Was suppose to be hand planted in 1987 and herbicide applied to aspen areas. However, only half the area was planted and herbicide never applied. Therefore, this stand has poor stocking and lots of open areas with cherry. At this point, it would be best to wait till existing trees meet silviculture criteria to harvest and then try site prep again. (2020)																																																												
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44	6120 - Lowland Cedar	Poletimber Well	37.0	119	81-110	N/A	Trace amounts of black spruce and balsam poplar in canopy. BA 140-170 in north half and 81-110 in southern half.																																																										
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45	4119 - Mixed Northern Hardwoods	Sapling Poor	5.1	34	Unspecified	N/A	This was cut 24 years ago and was upland conifers I guess and just shows once again that we need to think differently about harvesting solid conifer stands or wait a very long time for regeneration (2010). Trace amounts of white pine, paper birch and aspen in canopy (2020).																																																										
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.7	94	141-170	N/A	Trace amounts of paper birch, aspen and hemlock in canopy. Good amount of sugar maple seedlings. BA ranges from 90 to 160. Most of stand has a BA around 160.																																																										
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48	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.9	82	111-140	N/A	Trace amounts of oak, aspen, hemlock and yellow birch in the canopy.																																																										
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49	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.1	83	111-140	N/A	Trace amounts of balsam fir and cedar in canopy.																																										
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51	4130 - Aspen	Sapling Well	17.4	5	Immature	N/A	Trace amounts of cherry. Trace amounts of super canopy white pine, red pine cedar and cherry. Super canopy trees left as long-term retention from Loud Demolition T-Sale.																																										
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53	6229 - Mixed lowland shrub	Nonstocked	3.4		Unspecified	No	Weekend creek runs through this lowland.																																										