



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12036

Entry Year 2020

Acreage: 5,463

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2018-07-19

Stand Examiner: Deb Goupell

Legal Description:

T43N R28W Sec 1-4, 7-12, 15-22

Identified Planning Goals:

This compartment is being managed as a Grouse Enhanced Management site (GEM) where aspen is cut on a frequent basis (every 5 years) to increase age class diversity and edge effect, which favors grouse habitat. Underrepresented species and mast producing species will be retained. Seventeen miles of trails are maintained for walk-in hunting and some for driving.

Soil and topography:

Rolling hills with Pemene and Emmett-Pemene soils to swamps, which are basically Carbondale and Cathro-mucks

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

Most of the ownership within this compartment is State, although some private landowners are interspersed.

Unique Natural Features:

North Branch of the Ford River is the northern boundary, Ford River on part of the southern boundary; both are high quality trout streams.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Cold water streams, south portion is Obligate Deer Wintering area, GEM.

Watershed and Fisheries Considerations:

The northern region of this compartment borders the North Branch of the Ford River. The North Branch of the Ford River is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for the North Branch of the Ford River in riparian areas susceptible to Aspen regeneration (specifically stands 51, 52, and 223). 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 (specifically stands 1 and 41).

The southern region of this compartment borders the Main Branch of the Ford River. The Main Branch of the Ford River is a designated Type 1 trout stream. A 300' buffer is recommended for the Main Branch of the Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices (specifically stand 53).

Wildlife Habitat Considerations:

The main goals are to promote preferred habitat for ruffed grouse by creating age class diversity among the aspen stands while promoting species diversity within them. Also, we will be enhancing the recreational opportunities for hunting by creating walk in access only areas. The compartment is also used as a deer wintering area so functional cover is crucial.

Mineral Resource and Development Concerns and/or Restrictions

The Buckler Road Pit is located two miles east of the compartment and is currently leased to the county road commission. There may be some sand & gravel potential in the compartment on the uplands. However, clay is abundant in this area. Some of the compartment was previously leased for metallic mineral exploration, but no data exists on whether any exploration took place. There is no history of metallic mineral mining in the area, and metallic mineral potential is considered low at this time. There is no economic oil and gas production in the UP.

Vehicle Access:

Accessible on south and east by county roads 426 & 581 respectively; Swanson and Dry Lake Road also loop to bisect the compartment. Various gated trails are laced throughout the compartment.

Survey Needs:

Some interior corners likely needed.

Recreational Facilities and Opportunities:

Fishing, hunting, trapping, walking, camping, birding.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

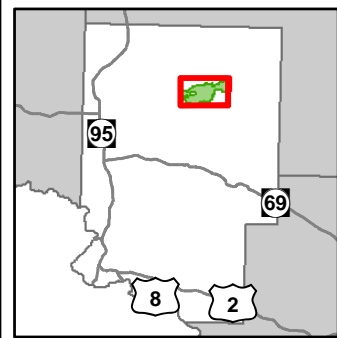
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

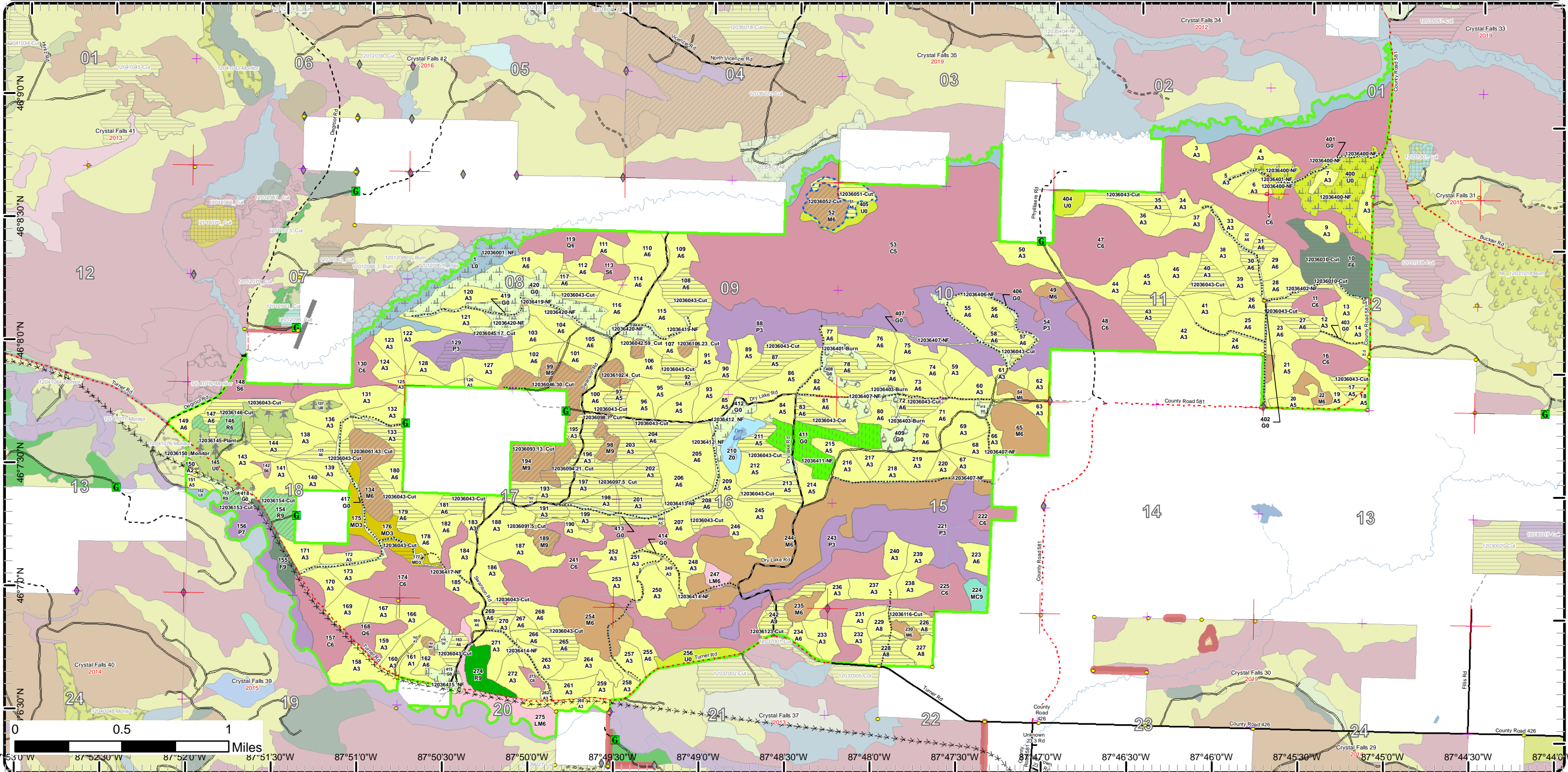
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

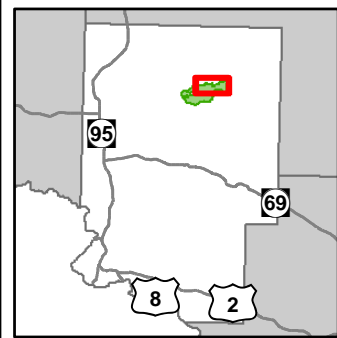
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 T43N, R29W, Sec. 13
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2020
 Acres: 5,463 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/17/2018
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- - - Counties
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- DNR - Forest Access Route
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- - - Private - Dirt / Gravel Road
- ✕ - Abandoned Railroads
- ▲ Berms
- ⬢ Gate
- ✈ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Airports
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Planting (tree species)
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
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- 500 - Water
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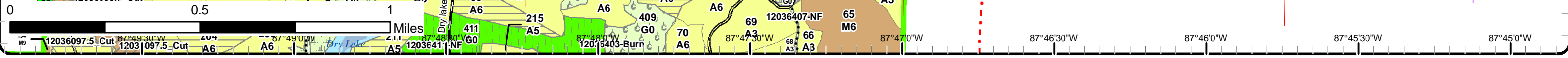
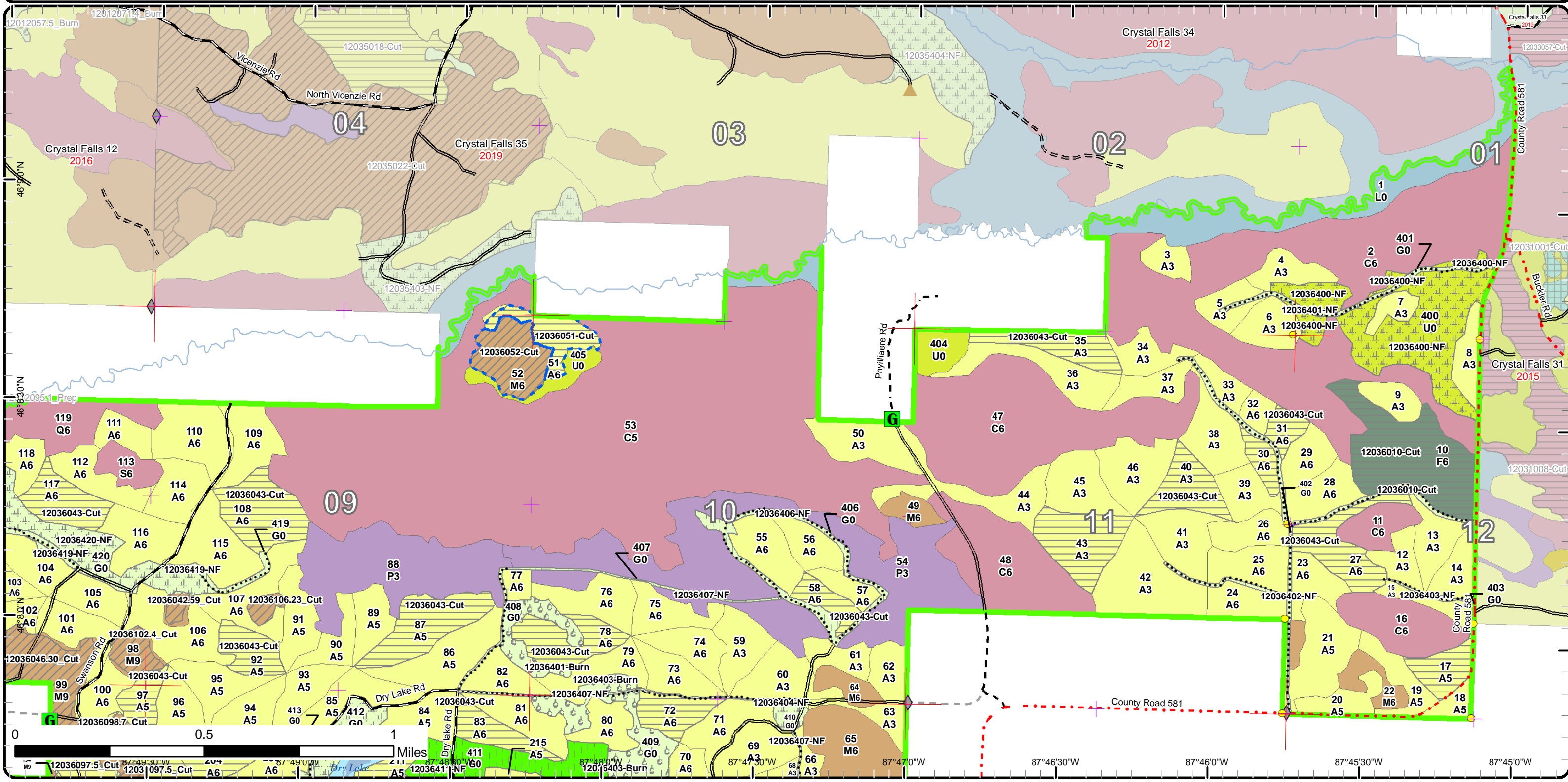


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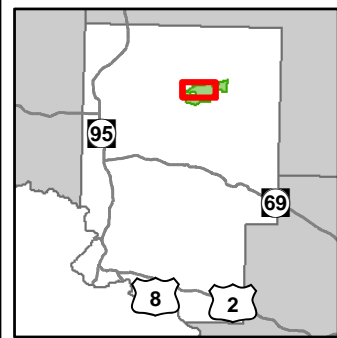


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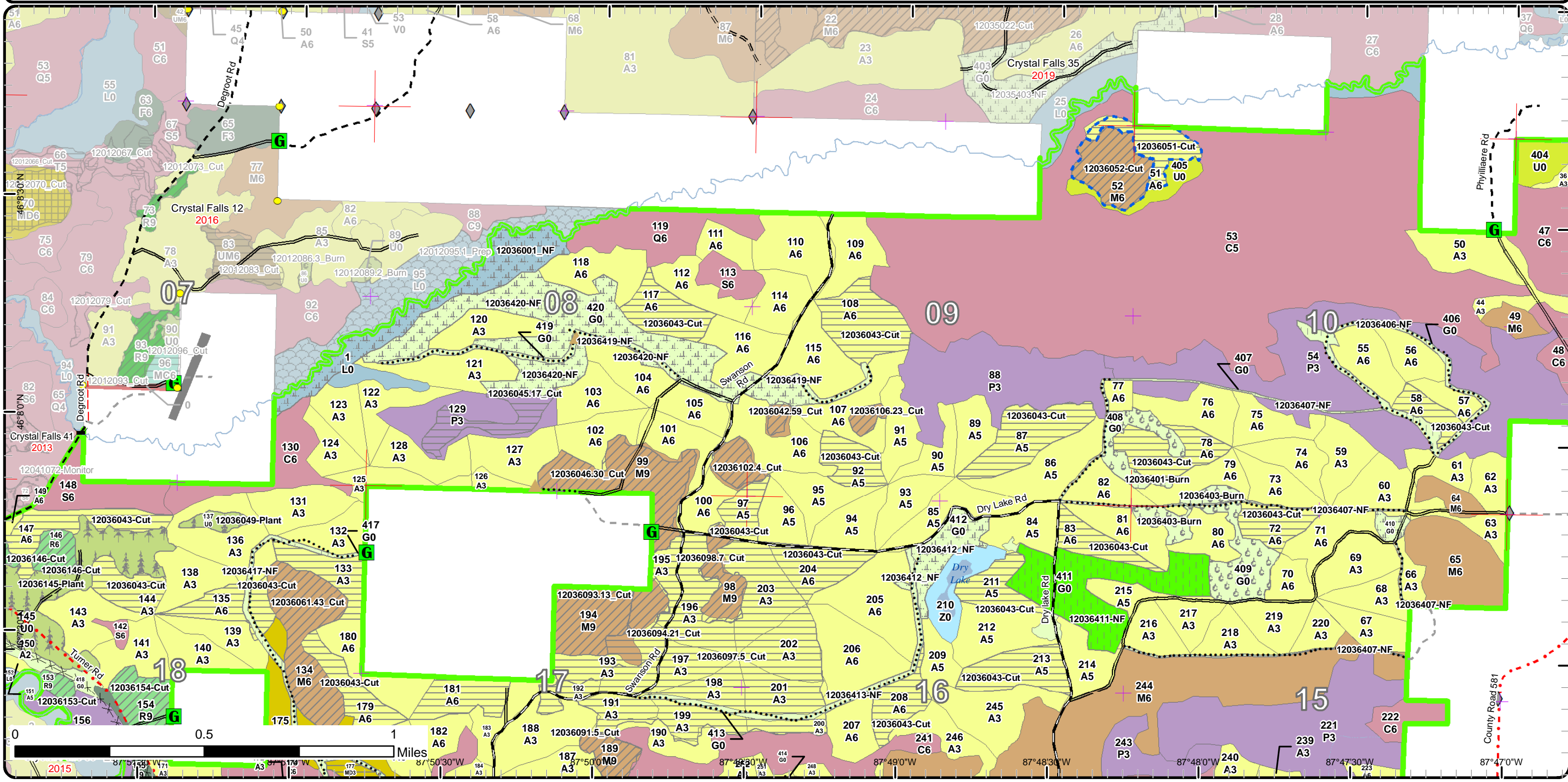


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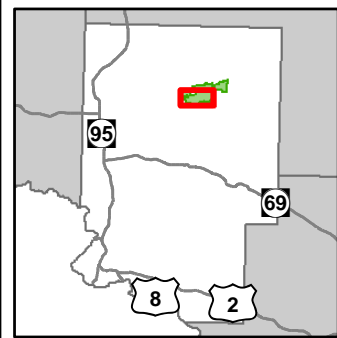


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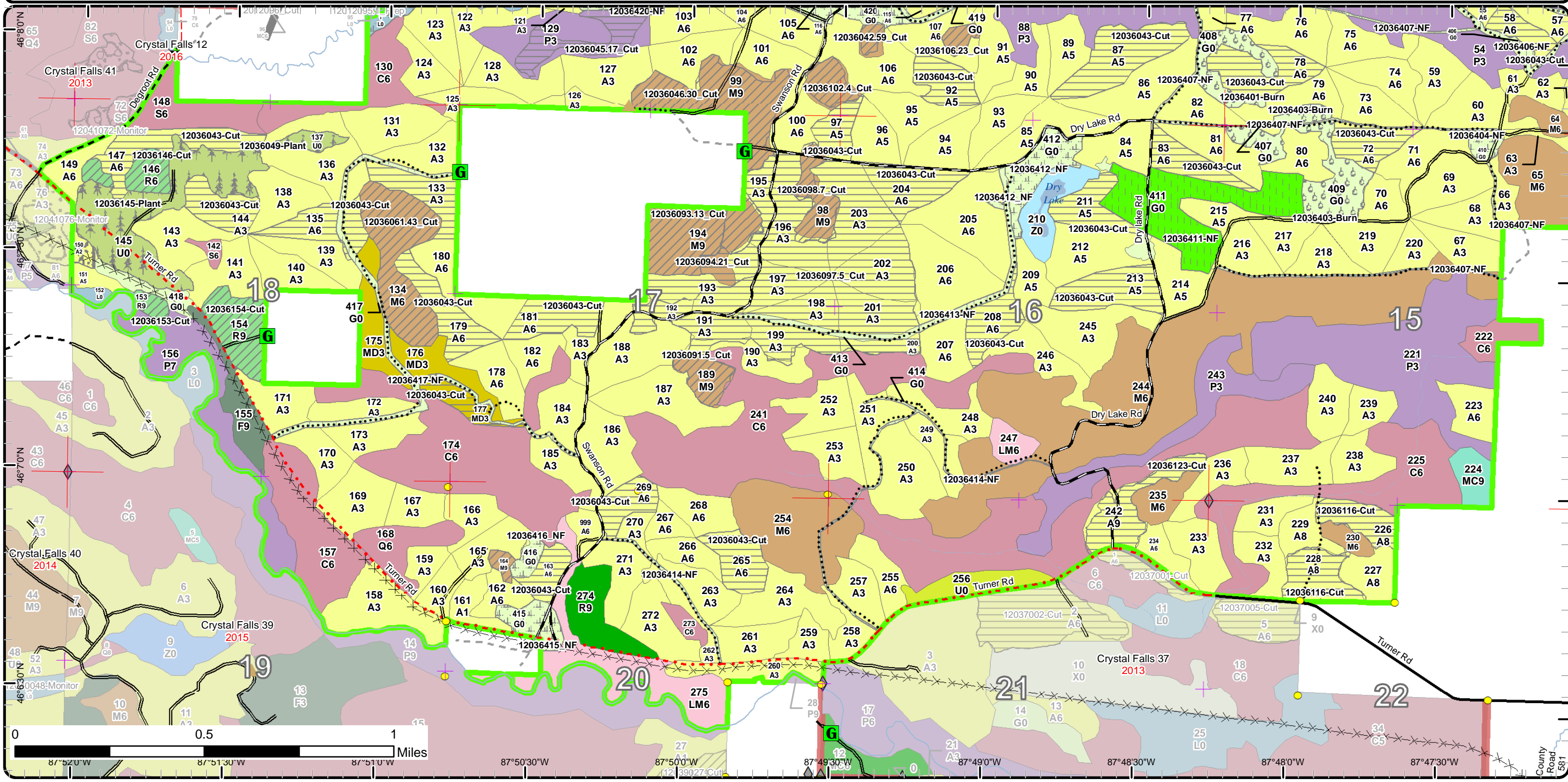


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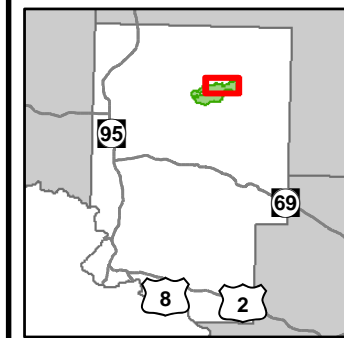
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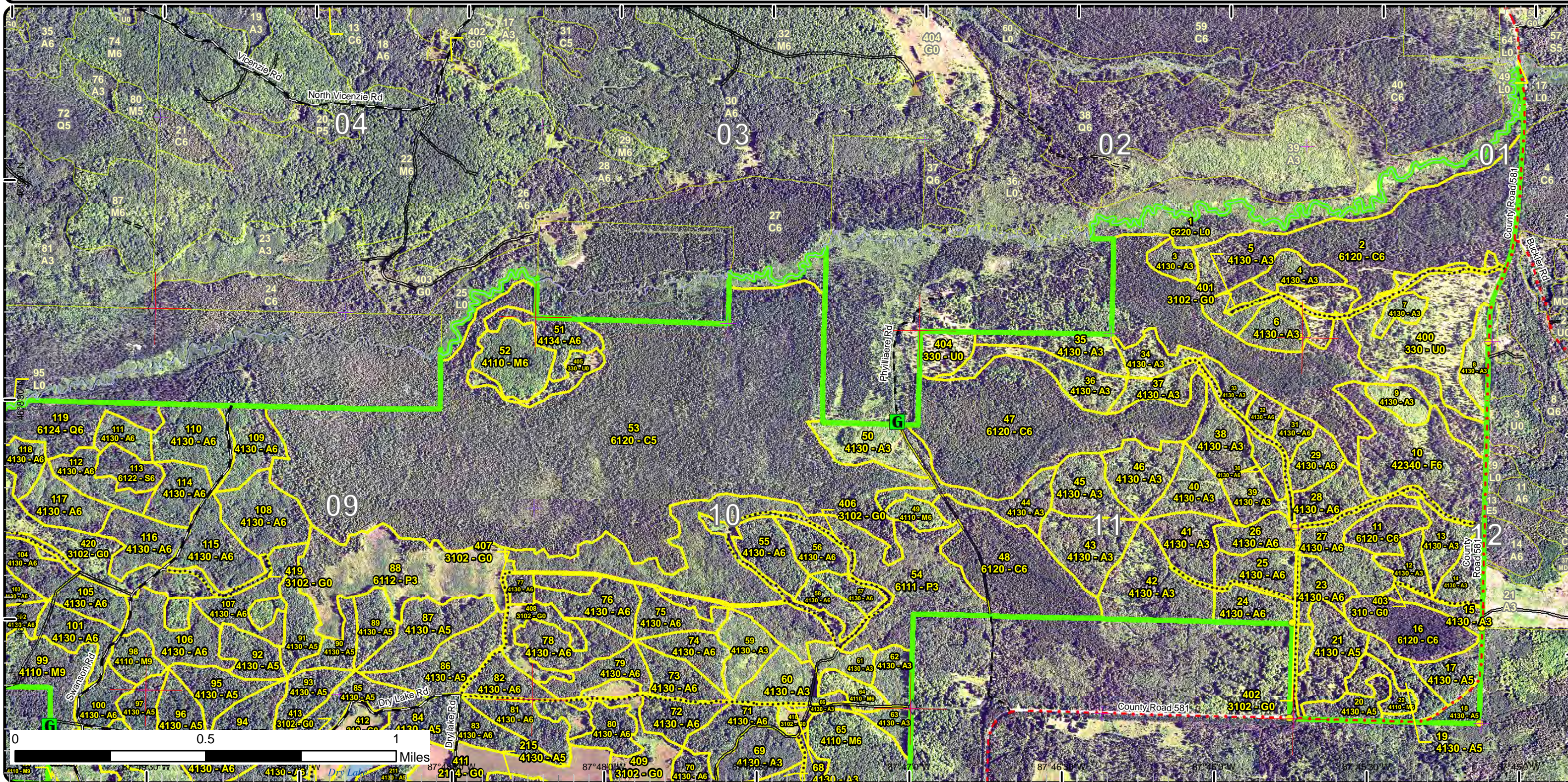


Stand Boundary Map

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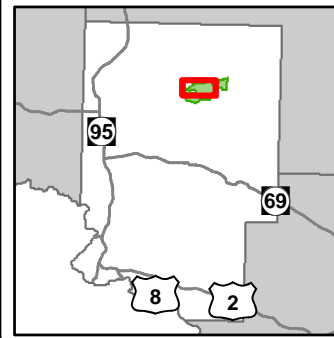


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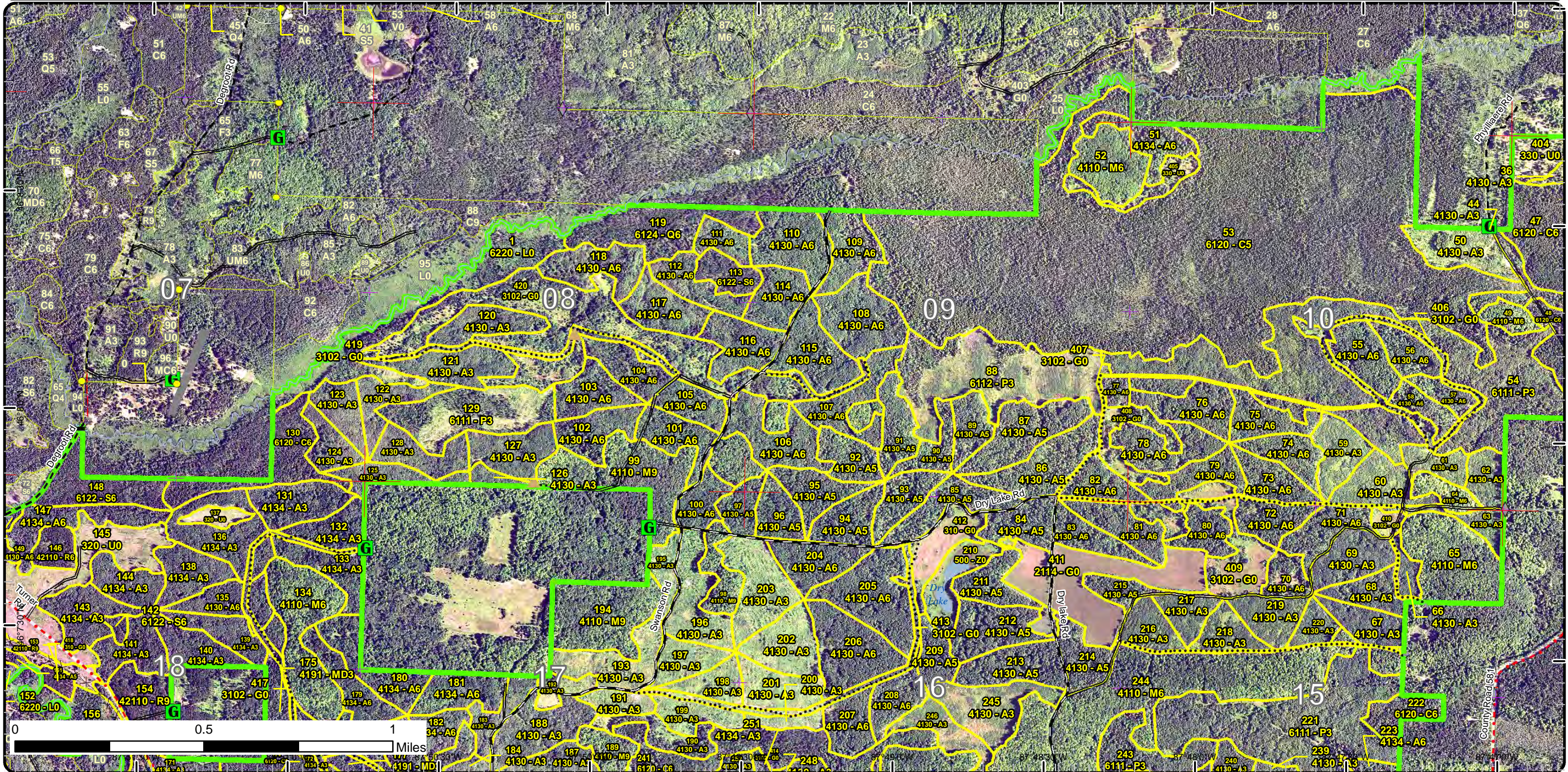


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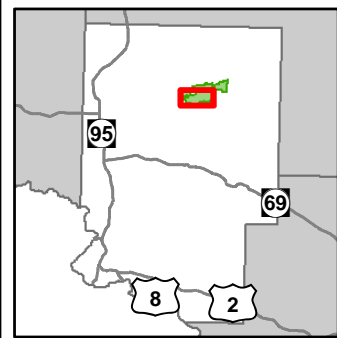
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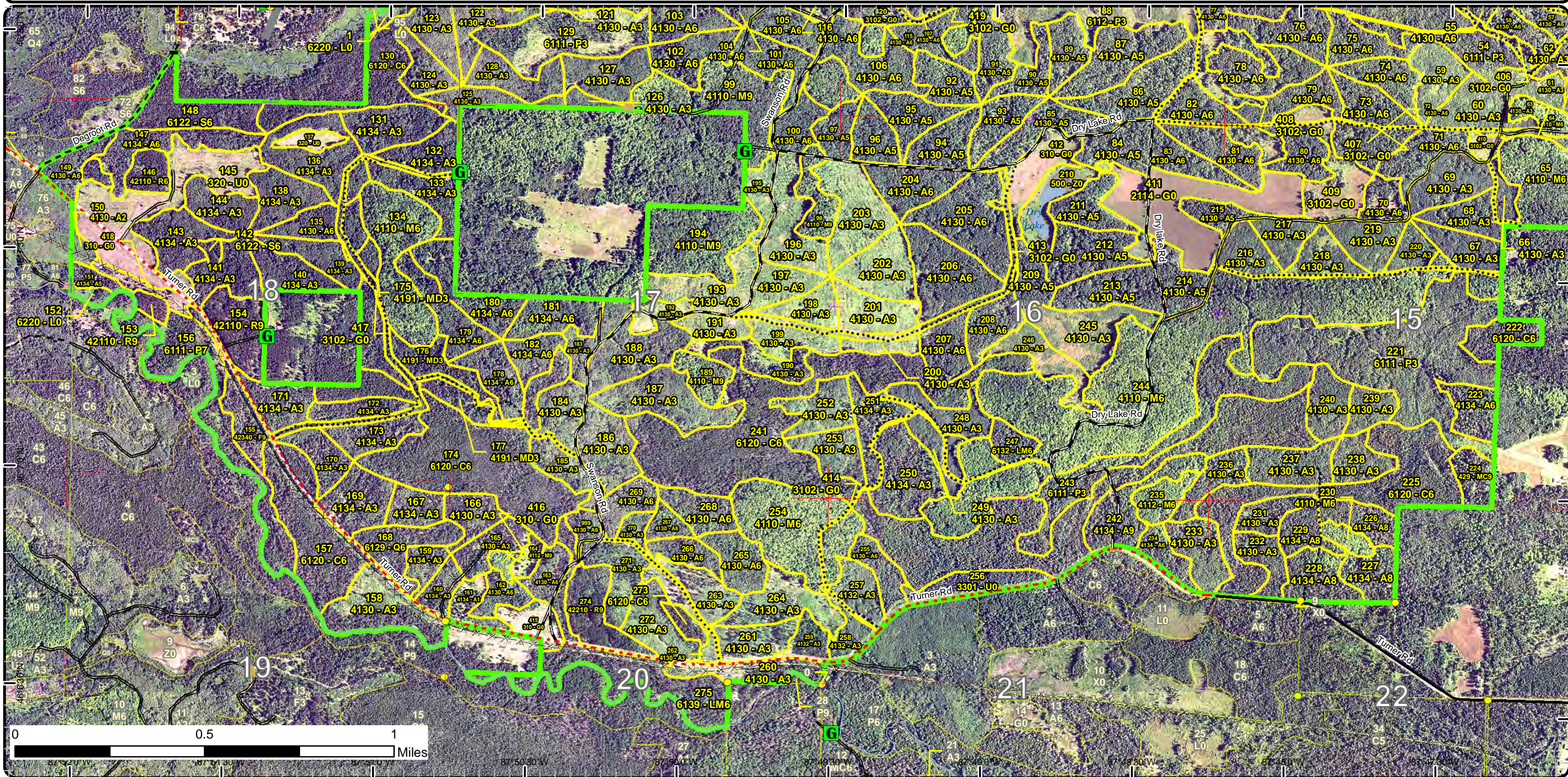


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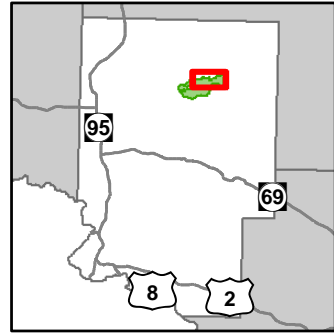
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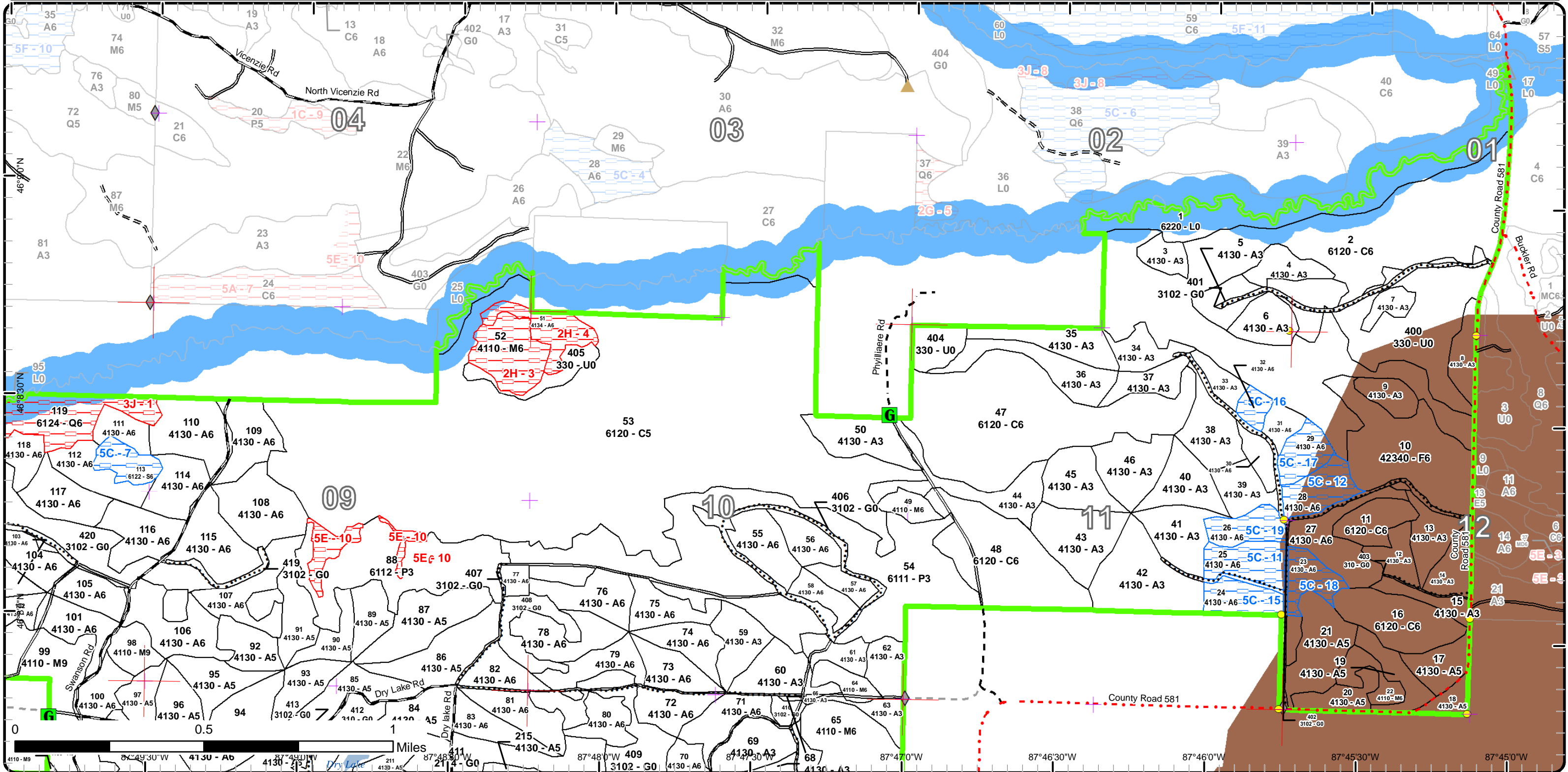


Special Conservation Areas & Site Conditions Map

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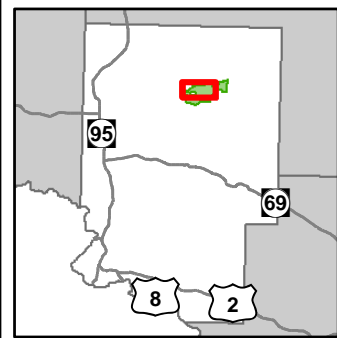


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

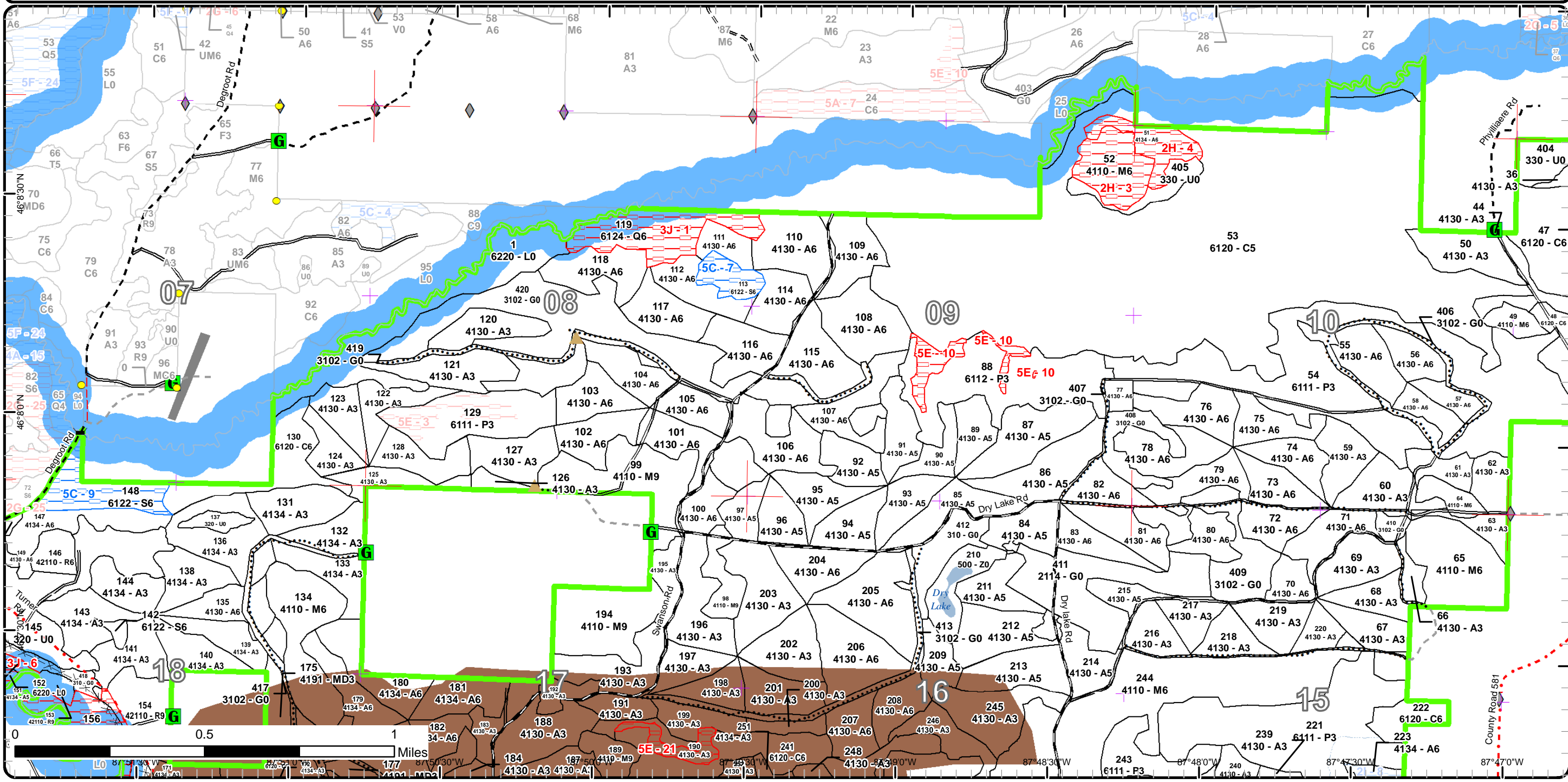


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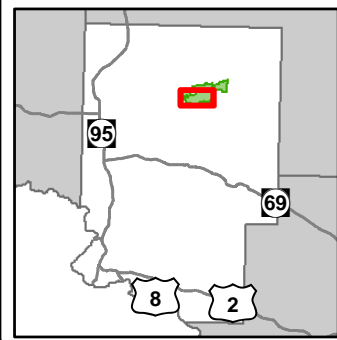


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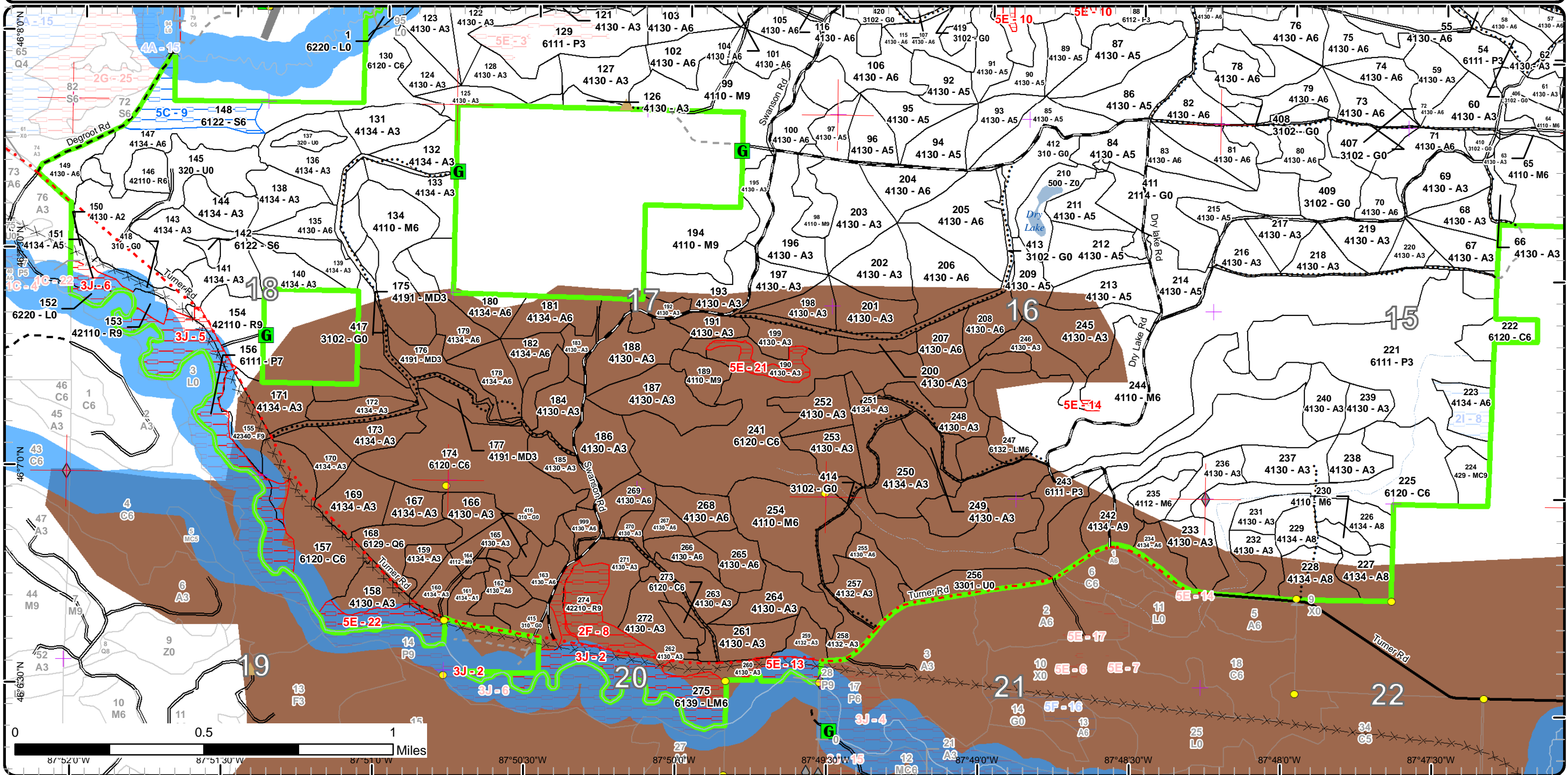


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Report 1 – Total Acres by Cover Type and Age Class



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	441	104	638	744	552	148	26	0	13	0	0	0	0	0	0	0	0	2666
Cedar	0	0	0	0	0	0	0	0	12	137	1043	0	0	0	0	0	0	0	1191
Cropland	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Herbaceous Openland	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
Low-Density Trees	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Lowland Aspen/Balsam Poplar	0	91	0	203	39	0	0	0	0	35	0	0	0	0	0	0	0	0	368
Lowland Conifers	0	0	0	0	0	15	0	0	0	28	0	0	0	0	0	0	0	0	43
Lowland Mixed Forest	0	0	0	0	0	0	0	0	38	7	0	0	0	0	0	0	0	0	44
Lowland Shrub	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	20	0	0	0	0	0	0	0	31
Mixed Upland Deciduous	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Northern Hardwood	0	0	0	0	0	0	0	0	0	175	261	0	0	0	0	0	0	0	435
Red Pine	0	0	0	0	0	0	31	0	0	18	0	0	0	0	0	0	0	0	48
Upland Conifers	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Upland Shrub	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Upland Spruce/Fir	0	0	0	0	46	0	0	13	0	0	0	0	0	0	0	0	0	0	59
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	535	532	104	841	861	567	188	39	50	424	1324	0	0	0	0	0	0	0	5461



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 36
Total Compartment Acres: 5,463

Commercial Harvest - 809
Harvests with Site Condition - 32
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	587	0	0	0	0	0	0	0	0	587
Cedar	16	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	14	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	0	148	0	0	0	148
Red Pine	0	0	0	0	0	31	0	0	0	31
Upland Spruce/Fir	46	0	0	0	0	0	0	0	0	46
Total	663	0	0	0	0	178	0	0	0	841

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	841	0	50	0	38	0	3	0	325	1258
Next Step	0	0	0	0	0	0	620	0	12	632
Total	841	0	50	0	38	0	623	0	337	1889



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	Approval Status
1	12036001_NF	34.8	6220 - Alder/willow	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	6220 - Alder/willow		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription stand planned to have tag alder/willow chopped for wood cock habitat improvement

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other open swamp grass/willow/tag alder along river. scattered tamarack

Comment:

Proposed Start Date: 10/1 /2018

10	12036010-Cut	46.1	42340 - Upland Spruce/Fir	Poletimber Well	35	Unspec ified	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest 2" and up due to SBW; request no retention other than pine or cedar to encourage aspen and mixed conifer to come back heavily.

Specs: Leave live submerchantable conifer, 4"dbh and less. Winter cut only, per WLD preference. Leave cherry around old opening.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, oak, mixed softwood

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

98	12036042.59_ Cut	2.5	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to BA 80 focusing on crown release of crop trees, removing poorly formed trees, favor minor species REVIEW: retain hemlock, cedar, white

Specs: pine, some cavity trees, snags and oak if found

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2011

108	12036043-Cut	393.9	4130 - Aspen	Poletimber Well	28	Unspec ified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and mixed hardwoods 2" and larger. Leave 1 cherry per acre if present. Cut all spruce/fir greater than a 4" dbh. Leave all cedar,

Specs: hemlock, oak, white and red pine if found. Harvest from Dec. 1 to March 1 and May1 to July 1 with WLD approval and with no extensions. Leave a 100 ft. forested buffer along dry lake opening in stand 211.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
129	12036045.17_ Cut	13.6	6111 - Lowland Balsam Poplar	Sapling Well	6	Immatur re	Harvest	Clearcut with Retention	6129 - Mixed Coniferous Lowland Forest	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all species two inches and over except Cedar. REVIEW: cut 50% of stand in a method worked out between WLD & FMD that results in
Specs: regeneration (patches or strip cuts)

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2011

99	12036046.30_ Cut	32.0	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Release crop trees by thinning to 80 BA. REVIEW: retain hemlock, cedar, white pine, cavity trees, snags and trace oak if found.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2011

137	12036049- Plant	4.3	320 - Upland Shrub	Nonstocked	0	Unspec ified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant per TMS specs
Specs:

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

Acceptable red pine
Regen:

Other
Comment:

Proposed Start Date: 1 /11/2017

51	12036051-Cut	12.5	4134 - Aspen, Spruce/Fir	Poletimber Well	86	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Blocked by Obstacle**

Prescription Final harvest 2" and up except cedar, pine, hemlock. Retention will be 300 ft buffer to N. Br. Ford River, if opportunity for access arises
Specs:

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

Acceptable aspen, mixed hardwood, mixed softwood
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019



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	Approval Status
52	12036052-Cut	19.5	4110 - Sugar Maple Association	Poletimber Well	90	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:** Blocked by Obstacle

Prescription Thin to 90BA if access opportunity arises

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

134	12036061.43_Cut	32.6	4110 - Sugar Maple Association	Poletimber Well	88	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Release crop trees by reducing BA to 80. Leave cedar, hemlock, white pine, cavity trees, snags, trace oak if found

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2011

164	12036080.28_Cut	2.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin to 80 BA, focusing on crown releasing the crop trees, favoring minor species and removing poorer formed trees REVIEW: retain hemlock,

Specs: cedar, white pine, some cavity trees, snags and oak if found

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2011

189	12036091.5_Cut	8.8	4110 - Sugar Maple Association	Sawtimber Well	88	81-110	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin to BA 80 focusing on crown release of crop trees; remove poorly formed trees; favor minor species REVIEW: retain hemlock, cedar, white

Specs: pine, some cavity trees, snags and oak if found

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2011



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	Approval Status
194	12036093.13_Cut	21.0	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to 80 BA to release crop trees. REVIEW: retain hemlock, cedar, white pine, some cavity trees, snags and trace oak if found.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2011

193	12036094.21_Cut	21.2	4130 - Aspen	Sapling Well	5	Immature	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all stems two inches and larger to perpetuate aspen type. REVIEW: leave hemlock, cedar, oak and pine if present

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2011

205	12036097.5_Cut	135.0	4130 - Aspen	Poetimber Well	40	Unspecified	Harvest	Clearcut	4130 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all species 2" dbh and up; retention along south side along cedar swamp

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2011

98	12036098.7_Cut	11.2	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to BA 80 focusing on crown release of the crop trees; favor minor species; remove poorer formed trees REVIEW: retain hemlock, cedar,

Specs: white pine, some cavity trees, snags & oak if found

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2011



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	Approval Status
194	12036099.9_C ut	6.7	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to 80 BA, retaining minor species; focus on crown release on crop trees; remove poorer formed trees REVIEW: leave hemlock, cedar, white pine, some cavity trees, snags and trace oak if found

Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2011

98	12036102.4_C ut	7.5	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to BA 80, focusing on crown releasing the crop trees; favor minor species; REVIEW: retain hemlock, cedar, white pine, some cavity trees, snags and oak if found.

Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2011

98	12036106.23_ Cut	3.4	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to 80BA focusing on crown release of crop trees; remove poorly formed trees; favor minor species REVIEW: retain hemlock, cedar, white pine, some cavity trees, snags and oak if found

Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2011

228	12036116-Cut	24.5	4134 - Aspen, Spruce/Fir	Sawtimber Medium	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final Harvest using 2" spec. Leave Cedar and Pine. Buffer stream on N side 100 ft. Leave spruce and balsam that are 1 stick and less.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:Acceptable Aspen, Maple, Fir, Pine, Mixed Conifers, Mixed DeciduousRegen:OtherComment:Proposed Start Date: 10/1 /2009



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	Approval Status
241	12036123-Cut	16.2	6120 - Lowland Cedar	Poletimber Well	98	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final Harvest using 2" spec. Leave Cedar and Pine. Leave spruce and balsam that are 1 stick and less.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple, Fir, Mixed Conifers, Mixed Deciduous

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2009

145	12036145- Plant	46.0	320 - Upland Shrub	Nonstocked	0	Unspec ified	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant per TMS specs.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2009

146	12036146-Cut	9.8	42110 - Planted Red Pine	Poletimber Well	56	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription thin to 100 to 120BA focusing on release of crop tree crowns

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

418	12036150_Mo nitor	2.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Survey upon next inventory cycle.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 8 /13/2015



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	Approval Status
153	12036153-Cut	3.4	42110 - Planted Red Pine	Sawtimber Well	56	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to 100-120 BA by releasing crowns of crop trees

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

154	12036154-Cut	17.3	42110 - Planted Red Pine	Sawtimber Well	56	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to 100-120 BA releasing crop tree crowns.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

400	12036400-NF	60.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription WLD opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Early successional habitat maintenance by mechanical or burn treatment

Comment:

Proposed Start Date: 10/1 /2018

408	12036401- Burn	12.0	3102 - Grass	Nonstocked		Unspec ified	Burn	Opening	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance - burn.

Specs:

Next Step

NonForestMgt, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018



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	Approval Status
401	12036401-NF	5.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

402	12036402-NF	12.1	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

409	12036403- Burn	26.0	3102 - Grass	Nonstocked		Unspec ified	Burn	Opening	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening maintenance

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

403	12036403-NF	0.7	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018



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	Approval Status
410	12036404-NF	3.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Wildlife opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Early successional habitat maintenance by mechanical or burn treatment

Comment:

Proposed Start Date: 10/1 /2018

406	12036406-NF	12.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

407	12036407-NF	9.4	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

411	12036411-NF	42.7	2114 - Other Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Sharecropping agreement with DNR Wildlife Division

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018



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	Approval Status
212	12036412_NF	14.8	4130 - Aspen	Poletimber Medium	43	Unspec ified	NonForestMgt	Other - Specify	31021 - Cool Season Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Opening Maintenance: Disc, Seed and Fertilize, and Opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

413	12036413-NF	5.5	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

414	12036414-NF	6.2	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

415	12036415_NF	9.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Wildlife opening maintenance.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Early successional habitat maintained by mechanical or burn treatment.

Comment:

Proposed Start Date: 10/1 /2018



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	Approval Status
165	12036416_NF	3.8	4130 - Aspen	Sapling Well	2	Immature	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Wildlife opening maintenance.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Early successional habitat maintenance by mechanical or burn treatment.

Comment:

Proposed Start Date: 10/1 /2018

417	12036417-NF	14.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

419	12036419-NF	10.5	3102 - Grass	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Hunter walking trail opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2018

420	12036420-NF	80.0	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Wildlife opening maintenance

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Early successional habitat maintenance by mechanical or burn treatment

Comment:

Proposed Start Date: 10/1 /2018

**Total Treatment
Acreage Proposed: 1257.5**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 36

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	2F	2H	3J	5E
2665	2532	83	50	Aspen	11	72		13	4	33
1192	1155	0	37	Cedar					37	
43	43	0	0	Cropland						
242	242	0	0	Herbaceous Openland						
91	91	0	0	Low-Density Trees						
368	309	0	59	Lowland Aspen/Balsam Poplar					35	24
44	15	0	28	Lowland Conifers					28	
45	9	0	35	Lowland Mixed Forest					35	
95	93	0	3	Lowland Shrub					3	
31	2	29	0	Lowland Spruce/Fir		29				
32	32	0	0	Mixed Upland Deciduous						
436	416	0	20	Northern Hardwood				19		0
48	31	0	18	Red Pine			17		0	
9	9	0	0	Upland Conifers						
50	50	0	0	Upland Shrub						
59	46	0	13	Upland Spruce/Fir					13	
14	14	0	0	Water						
5,463	5,089	111	263	Total Forested Acres	11	101	17	33	156	57
	93%	2%	5%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	39	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: entirely within 300 ft buffer to Ford River							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluate within the next 5 years or next entry for viability for harvest							
8	Unavailable	2F: Too steep	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A bit steep to thin without doing a fair amount of damage. crowns are a bit small so likely will not respond or hold well if opened up.							

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand diameters further interior of stand need to grow more.							
10	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Year of Entry: 2020

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: GEM							
21	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 36

Year of Entry: 2020

22	Unavailable	5E: Long-Term Retention	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Poletimber Well	185.6	93	Unspecified	Cedar is heaviest on far west side, tends to be in solid clumps. Spruce on south central edge is almost ready to be harvested, but still somewhat small. May need to consider salvaging tamarack along CR 581 in case ELB begins to ravage.
3	4130 - Aspen	Sapling Well	6.5	35	Unspecified	Cut 1983 Little Fire TS. Stand is wetter on edges, which also have smaller diameters
4	4130 - Aspen	Sapling Well	9.0	35	Unspecified	Cut 1983 Little Fire TS. Stand is wetter on edges, which also have smaller diameters
5	4130 - Aspen	Sapling Well	8.7	35	Unspecified	Cut 1983 Little Fire TS. Stand is wetter on edges, which also have smaller diameters
6	4130 - Aspen	Sapling Well	11.4	35	Unspecified	Cut 1983 Little Fire TS. Stand is wetter on edges, which also have smaller diameters
7	4130 - Aspen	Sapling Well	5.5	8	Immature	The Sharp Sale cut 2010
8	4130 - Aspen	Sapling Well	9.2	8	Immature	The Sharp Sale cut 2010. A little sparse. Most of merchantable conifer that was left has died or blown down. Better regeneration on north half and west edge.
9	4130 - Aspen	Sapling Well	7.7	8	Immature	Retention along the northeast side. The Sharp Sale cut 2010
10	42340 - Upland Spruce/Fir	Poletimber Well	46.1	35	Unspecified	Much of the conifer along CR 581 is dead. Stand is breaking up. Likely to be relatively low volume as WS and BF are 1-3 sticks only. Likely to convert to aspen with mixed conifer.
11	6120 - Lowland Cedar	Poletimber Well	11.8	71	Unspecified	
12	4130 - Aspen	Sapling Well	8.3	25	Immature	Deer Drive TS cut 1993. Conifer is heaviest along CR 581 and interior pocket. Small ash swale right along CR 581. Diameters of aspen range from 3-8". Nice thick stand.
13	4130 - Aspen	Sapling Well	11.3	25	Immature	Deer Drive TS cut 1993. Conifer is heaviest along CR 581 and interior pocket. Small ash swale right along CR 581. Diameters of aspen range from 3-8". Nice thick stand.
14	4130 - Aspen	Sapling Well	9.9	25	Immature	Deer Drive TS cut 1993. Conifer is heaviest along CR 581 and interior pocket. Small ash swale right along CR 581. Diameters of aspen range from 3-8". Nice thick stand.
15	4130 - Aspen	Sapling Well	6.6	25	Immature	Deer Drive TS cut 1993. Conifer is heaviest along CR 581 and interior pocket. Small ash swale right along CR 581. Diameters of aspen range from 3-8". Nice thick stand.
16	6120 - Lowland Cedar	Poletimber Well	24.1	91	Unspecified	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4130 - Aspen	Poletimber Medium	10.6	38	Unspecified	Fontana Corner TS cut 1988. WS along CR 581 is mostly dead from SBW. Aspen diameters range from 6-10" along road. West central portion is an old grass opening that has filled in and is therefore sparser.
18	4130 - Aspen	Poletimber Medium	5.2	38	Unspecified	Fontana Corner TS cut 1988. WS along CR 581 is mostly dead from SBW. Aspen diameters range from 6-10" along road. West central portion is an old grass opening that has filled in and is therefore sparser.
19	4130 - Aspen	Poletimber Medium	10.4	38	Unspecified	Fontana Corner TS cut 1988. WS along CR 581 is mostly dead from SBW. Aspen diameters range from 6-10" along road. West central portion is an old grass opening that has filled in and is therefore sparser.
20	4130 - Aspen	Poletimber Medium	9.3	38	Unspecified	Fontana Corner TS cut 1988. WS along CR 581 is mostly dead from SBW. Aspen diameters range from 6-10" along road. West central portion is an old grass opening that has filled in and is therefore sparser.
21	4130 - Aspen	Poletimber Medium	20.9	38	Unspecified	Fontana Corner TS cut 1988. WS along CR 581 is mostly dead from SBW. Aspen diameters range from 6-10" along road. West central portion is an old grass opening that has filled in and is therefore sparser.
22	4110 - Sugar Maple Association	Poletimber Well	11.0	95	81-110	Thinned with Sharp Sale cut 2010. Fair quality. couple of hemlock and white pine.
23	4130 - Aspen	Poletimber Well	10.2	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
24	4130 - Aspen	Poletimber Well	10.9	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
25	4130 - Aspen	Poletimber Well	13.4	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
26	4130 - Aspen	Poletimber Well	10.4	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
27	4130 - Aspen	Poletimber Well	18.9	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
28	4130 - Aspen	Poletimber Well	12.7	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
29	4130 - Aspen	Poletimber Well	10.0	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters
30	4130 - Aspen	Poletimber Well	5.8	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
31	4130 - Aspen	Poletimber Well	5.6	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters	
32	4130 - Aspen	Poletimber Well	4.5	49	Unspecified	SBW having effect on understory BF/WS. Southwest quadrant has slightly smaller diameters	
33	4130 - Aspen	Sapling Well	6.1	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
34	4130 - Aspen	Sapling Well	9.5	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
35	4130 - Aspen	Sapling Well	14.7	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
36	4130 - Aspen	Sapling Well	18.1	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
37	4130 - Aspen	Sapling Well	9.4	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
38	4130 - Aspen	Sapling Well	15.7	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
39	4130 - Aspen	Sapling Well	10.4	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
40	4130 - Aspen	Sapling Well	15.0	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
41	4130 - Aspen	Sapling Well	16.1	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	
42	4130 - Aspen	Sapling Well	29.7	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4130 - Aspen	Sapling Well	21.9	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.
44	4130 - Aspen	Sapling Well	20.0	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.
45	4130 - Aspen	Sapling Well	16.2	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.
46	4130 - Aspen	Sapling Well	18.0	32	Immature	Long Line TS cut 1986. Very diverse stand with diameters all over the board. Far north is more open with aspen clones filling in an old opening. Far south is nice, fully stocked aspen. There are patches of poor regeneration along with some wet swales.
47	6120 - Lowland Cedar	Poletimber Well	98.2	93	141-170	Tamarack more on south edge
48	6120 - Lowland Cedar	Poletimber Well	47.6	93	Unspecified	Tamarack more on northeast edge, spruce scattered
49	4110 - Sugar Maple Association	Poletimber Well	5.9	90	81-110	thinned 2003
50	4130 - Aspen	Sapling Well	16.8	8	Immature	The Sharp Sale cut 2010
51	4134 - Aspen, Spruce/Fir	Poletimber Well	13.0	86	Unspecified	Access blocked by private, trout stream and lowland.
52	4110 - Sugar Maple Association	Poletimber Well	19.5	90	111-140	Access blocked by stream, private and lowland.
53	6120 - Lowland Cedar	Poletimber Medium	442.5	93	51-80	heavier cedar on southwest edge.
54	6111 - Lowland Balsam Poplar	Sapling Well	118.1	24	Immature	Some extremely wet areas. More quaking aspen on north edge. Cannot cross the old grade as it is grown in with tag alder. WLD plans to open this up for a walking trail over the winter.
55	4130 - Aspen	Poletimber Well	14.7	43	Unspecified	Short trees
56	4130 - Aspen	Poletimber Well	10.2	43	Unspecified	Short trees
57	4130 - Aspen	Poletimber Well	6.2	43	Unspecified	Short trees
58	4130 - Aspen	Poletimber Well	7.5	43	Unspecified	Short trees



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
59	4130 - Aspen	Sapling Well	13.3	8	Immature	OPIC - FMD: Retention along the east part of the north line. The Sharp Sale cut 2010	
60	4130 - Aspen	Sapling Well	16.0	8	Immature	OPIC - FMD: Retention along the east part of the north line. The Sharp Sale cut 2010	
61	4130 - Aspen	Sapling Well	8.1	8	Immature	OPIC - FMD: Retention along the east part of the north line. The Sharp Sale cut 2010	
62	4130 - Aspen	Sapling Well	9.0	8	Immature	OPIC - FMD: Retention along the east part of the north line. The Sharp Sale cut 2010	
63	4130 - Aspen	Sapling Well	7.0	8	Immature	OPIC - FMD: Retention along the east part of the north line. The Sharp Sale cut 2010	
64	4110 - Sugar Maple Association	Poletimber Well	6.9	95	81-110	Thinned with Sharp sale 2010.	
65	4110 - Sugar Maple Association	Poletimber Well	31.7	95	81-110	Thinned 2003	
66	4130 - Aspen	Sapling Well	4.7	14	Immature	Cut 2004 Young & Old TS	
67	4130 - Aspen	Sapling Well	11.1	14	Immature	Cut 2004 Young & Old TS	
68	4130 - Aspen	Sapling Well	10.4	14	Immature	Cut 2004 Young & Old TS	
69	4130 - Aspen	Sapling Well	15.5	14	Immature	Cut 2004 Young & Old TS	
70	4130 - Aspen	Poletimber Well	8.0	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
71	4130 - Aspen	Poletimber Well	13.2	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
72	4130 - Aspen	Poletimber Well	11.4	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
73	4130 - Aspen	Poletimber Well	11.7	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
74	4130 - Aspen	Poletimber Well	11.5	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
75	4130 - Aspen	Poletimber Well	12.1	39	Unspecified	Aspen is not very tall. Somewhat patchy density	
76	4130 - Aspen	Poletimber Well	15.4	39	Unspecified	Aspen is not very tall. Somewhat patchy density	



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
77	4130 - Aspen	Poletimber Well	3.7	39	Unspecified	Aspen is not very tall. Somewhat patchy density
78	4130 - Aspen	Poletimber Well	16.7	39	Unspecified	Aspen is not very tall. Somewhat patchy density
79	4130 - Aspen	Poletimber Well	12.7	39	Unspecified	Aspen is not very tall. Somewhat patchy density
80	4130 - Aspen	Poletimber Well	10.0	39	Unspecified	Aspen is not very tall. Somewhat patchy density
81	4130 - Aspen	Poletimber Well	13.4	39	Unspecified	Aspen is not very tall. Somewhat patchy density
82	4130 - Aspen	Poletimber Well	10.3	39	Unspecified	Aspen is not very tall. Somewhat patchy density
83	4130 - Aspen	Poletimber Well	10.9	39	Unspecified	Aspen is not very tall. Somewhat patchy density
84	4130 - Aspen	Poletimber Medium	12.7	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
85	4130 - Aspen	Poletimber Medium	16.0	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
86	4130 - Aspen	Poletimber Medium	21.2	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
87	4130 - Aspen	Poletimber Medium	22.1	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
88	6112 - Lowland Aspen	Sapling Well	58.2	4	Immature	Head Turner TS cut early winter 2015
89	4130 - Aspen	Poletimber Medium	10.1	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
90	4130 - Aspen	Poletimber Medium	8.9	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
91	4130 - Aspen	Poletimber Medium	12.4	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	4130 - Aspen	Poletimber Medium	11.1	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
93	4130 - Aspen	Poletimber Medium	11.8	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
94	4130 - Aspen	Poletimber Medium	12.9	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
95	4130 - Aspen	Poletimber Medium	13.0	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
96	4130 - Aspen	Poletimber Medium	10.4	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
97	4130 - Aspen	Poletimber Medium	8.4	53	Unspecified	Somewhat patchy but aspen sprouts 8+ feet are filling in. Similar to stands south and east. Draws on north edge. Very thick hazel understory.
98	4110 - Sugar Maple Association	Sawtimber Well	25.7	88	111-140	Currently part of Hartley Headache TS which has not been cut as of 12/2017
99	4110 - Sugar Maple Association	Sawtimber Well	33.6	88	111-140	Thin to 80 BA to release crop trees. Hartley Headache TS
100	4130 - Aspen	Poletimber Well	9.8	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
101	4130 - Aspen	Poletimber Well	13.1	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
102	4130 - Aspen	Poletimber Well	13.5	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
103	4130 - Aspen	Poletimber Well	13.6	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
104	4130 - Aspen	Poletimber Well	12.7	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	4130 - Aspen	Poletimber Well	10.5	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
106	4130 - Aspen	Poletimber Well	20.3	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
107	4130 - Aspen	Poletimber Well	16.2	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
108	4130 - Aspen	Poletimber Well	22.5	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
109	4130 - Aspen	Poletimber Well	15.2	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
110	4130 - Aspen	Poletimber Well	20.7	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
111	4130 - Aspen	Poletimber Well	7.6	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
112	4130 - Aspen	Poletimber Well	12.7	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
113	6122 - Black Spruce	Poletimber Well	9.0	89	Unspecified	remote call; using previous inventory data
114	4130 - Aspen	Poletimber Well	13.5	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
115	4130 - Aspen	Poletimber Well	20.0	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
116	4130 - Aspen	Poletimber Well	16.3	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
117	4130 - Aspen	Poletimber Well	15.2	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
118	4130 - Aspen	Poletimber Well	16.9	28	Unspecified	Camp Douglas TS cut 1990. Very diverse aspen type: southwest lobe is quite wet with tamarack regenerating; northwest lobe is patchy regeneration; south portion of the northeast lobe has low swale in it.
119	6124 - Lowland Spruce- Fir	Poletimber Well	28.3	89	Unspecified	upland knob on south center.
120	4130 - Aspen	Sapling Well	13.0	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
121	4130 - Aspen	Sapling Well	16.9	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
122	4130 - Aspen	Sapling Well	11.5	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
123	4130 - Aspen	Sapling Well	10.8	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
124	4130 - Aspen	Sapling Well	9.2	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
125	4130 - Aspen	Sapling Well	9.5	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
126	4130 - Aspen	Sapling Well	3.6	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
127	4130 - Aspen	Sapling Well	15.6	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
128	4130 - Aspen	Sapling Well	13.2	22	Unspecified	Steele Fence cut 1996. Some wet swales in west lobe.
129	6111 - Lowland Balsam Poplar	Sapling Well	32.7	6	Immature	Cut Hartley Headache 20xx. (Retention pocket has white birch 9", 60%; balm of gilead 11", 20%; white spruce 10", 10%; cedar 10", 10%)
130	6120 - Lowland Cedar	Poletimber Well	22.7	85	Unspecified	
131	4134 - Aspen, Spruce/Fir	Sapling Well	16.2	31	Unspecified	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	Sapling Well	11.0	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	13.0	31	Unspecified	
4110 - Sugar Maple Association	Poletimber Well	32.6	88	111-140	Stand is part of Hartley Headache, not yet cut as of 12/2017
4130 - Aspen	Poletimber Well	12.7	42	Unspecified	interior (westerly) pie corner is about 4 acres of 31 year old aspen; merged with A6 as will be harvested as one stand.
4134 - Aspen, Spruce/Fir	Sapling Well	22.4	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	13.9	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	10.9	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	11.8	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	13.9	31	Unspecified	
6122 - Black Spruce	Poletimber Well	2.2	85	Unspecified	remote call. want to use previous inventory data
4134 - Aspen, Spruce/Fir	Sapling Well	15.7	31	Unspecified	
4134 - Aspen, Spruce/Fir	Sapling Well	11.7	31	Unspecified	
42110 - Planted Red Pine	Poletimber Well	9.8	56	141-170	Thinned with Move Your Caboose TS 2013
4134 - Aspen, Spruce/Fir	Poletimber Well	17.6	42	Unspecified	Much of the understory spruce and balsam is hit hard by SBW.
6122 - Black Spruce	Poletimber Well	19.8	92	Unspecified	Larger diameters along upland, but still small overall.
4130 - Aspen	Poletimber Well	8.7	31	Unspecified	
4130 - Aspen	Sapling Medium	3.2	4	Immature	Harvested 2014- Aspen regeneration cut. Cut along with stand 76 in C41.
4134 - Aspen, Spruce/Fir	Poletimber Medium	4.1	56	Unspecified	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42110 - Planted Red Pine	Sawtimber Well	3.4	56	111-140	Thinned in 2013 with Move Your Caboose TS
42110 - Planted Red Pine	Sawtimber Well	17.3	56	141-170	Thinned in 2013 with Move Your Caboose TS
42340 - Upland Spruce/Fir	Sawtimber Well	13.1	60	111-140	Remove spruce/balsam from between tracks
6111 - Lowland Balsam Poplar	Sawtimber Poor	35.3	88	Unspecified	Most of this stand is the floodplain to the Ford.
6120 - Lowland Cedar	Poletimber Well	36.9	88	Unspecified	
4130 - Aspen	Sapling Well	23.3	5	Immature	Sale was cut 2013, remaining stand is 300 foot buffer to Ford River
4134 - Aspen, Spruce/Fir	Sapling Well	6.1	36	Unspecified	Sund Landing TS cut 1982.
4134 - Aspen, Spruce/Fir	Sapling Well	7.0	36	Unspecified	Sund Landing TS cut 1982.
4134 - Aspen, Spruce/Fir	Sapling Poor	7.6	15	Immature	
4130 - Aspen	Poletimber Well	6.9	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".
4130 - Aspen	Poletimber Well	7.9	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".
4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.3	88	111-140	Currently part of Hartley Headache TS, this unit not yet cut
4130 - Aspen	Sapling Well	10.9	2	Immature	Gemboree TS cut Dec 2016
4130 - Aspen	Sapling Well	9.5	2	Immature	Gemboree TS cut Dec 2016
4134 - Aspen, Spruce/Fir	Sapling Well	9.1	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	15.3	47	Unspecified	heavier pocket of cedar in far east finger.
4134 - Aspen, Spruce/Fir	Sapling Well	16.2	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
170	4134 - Aspen, Spruce/Fir	Sapling Well	10.1	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.
171	4134 - Aspen, Spruce/Fir	Sapling Well	12.0	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.
172	4134 - Aspen, Spruce/Fir	Sapling Well	8.2	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.
173	4134 - Aspen, Spruce/Fir	Sapling Well	11.3	31	Unspecified	Turner Tower TS cut 1987. Aspen diameters range from 6-10". Understory BF/WS hit hard by SBW. Diverse stand = has a little of everything.
174	6120 - Lowland Cedar	Poletimber Well	77.6	85	Unspecified	Black spruce is small crowned and in two pockets
175	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	12.9	31	111-140	West of gated road toward private slopes to wetter ground. Diverse stand but SBW is affecting conifer significantly.
176	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.9	31	111-140	West of gated road toward private slopes to wetter ground. Diverse stand but SBW is affecting conifer significantly.
177	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	6.7	31	111-140	West of gated road toward private slopes to wetter ground. Diverse stand but SBW is affecting conifer significantly.
178	4134 - Aspen, Spruce/Fir	Poletimber Well	12.4	41	Unspecified	small pocket of hardwood in center, some scattered along north edge
179	4134 - Aspen, Spruce/Fir	Poletimber Well	14.5	41	Unspecified	small pocket of hardwood in center, some scattered along north edge
180	4134 - Aspen, Spruce/Fir	Poletimber Well	16.7	41	Unspecified	small pocket of hardwood in center, some scattered along north edge
181	4134 - Aspen, Spruce/Fir	Poletimber Well	14.0	41	Unspecified	small pocket of hardwood in center, some scattered along north edge
182	4134 - Aspen, Spruce/Fir	Poletimber Well	8.5	41	Unspecified	small pocket of hardwood in center, some scattered along north edge
183	4130 - Aspen	Sapling Well	9.6	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.
184	4130 - Aspen	Sapling Well	11.4	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
185	4130 - Aspen	Sapling Well	10.5	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.
186	4130 - Aspen	Sapling Well	17.0	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.
187	4130 - Aspen	Sapling Well	22.9	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.
188	4130 - Aspen	Sapling Well	20.2	22	Unspecified	Sund Landing sale cut 1996. North half is thicker with quaking aspen. Lower ground and patchier in south. Birch saplings are primarily along road.
189	4110 - Sugar Maple Association	Sawtimber Well	8.9	88	81-110	Part of Hartley Headache, thinned 2013
190	4130 - Aspen	Sapling Well	11.1	5	Immature	Cut 2013 with Hartley Headache TS
191	4130 - Aspen	Sapling Well	6.9	5	Immature	Cut 2013 with Hartley Headache TS
192	4130 - Aspen	Sapling Well	6.2	5	Immature	Cut 2013 with Hartley Headache TS
193	4130 - Aspen	Sapling Well	18.6	5	Immature	Cut 2013 with Hartley Headache TS
194	4110 - Sugar Maple Association	Sawtimber Well	30.6	88	111-140	Part of Hartley Headache TS not cut yet as of 12/2017
195	4130 - Aspen	Sapling Well	7.3	5	Immature	Cut 2013 with Hartley Headache TS
196	4130 - Aspen	Sapling Well	20.3	5	Immature	Cut 2013 with Hartley Headache TS
197	4130 - Aspen	Sapling Well	10.5	5	Immature	Cut 2013 with Hartley Headache TS
198	4130 - Aspen	Sapling Well	9.6	5	Immature	Cut 2013 with Hartley Headache TS
199	4130 - Aspen	Sapling Well	10.0	5	Immature	Cut 2013 with Hartley Headache TS
200	4130 - Aspen	Sapling Well	4.8	5	Immature	Cut 2013 with Hartley Headache TS
201	4130 - Aspen	Sapling Well	14.0	5	Immature	Cut 2013 with Hartley Headache TS



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	Sapling Well	17.1	5	Immature	Cut 2013 with Hartley Headache TS
4130 - Aspen	Sapling Well	22.3	5	Immature	Cut 2013 with Hartley Headache TS
4130 - Aspen	Poletimber Well	15.0	40	Unspecified	
4130 - Aspen	Poletimber Well	26.8	40	Unspecified	
4130 - Aspen	Poletimber Well	24.1	40	Unspecified	
4130 - Aspen	Poletimber Well	11.9	40	Unspecified	
4130 - Aspen	Poletimber Well	11.6	40	Unspecified	
4130 - Aspen	Poletimber Medium	8.6	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
4130 - Aspen	Poletimber Medium	12.0	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
4130 - Aspen	Poletimber Medium	17.8	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
4130 - Aspen	Poletimber Medium	17.5	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
4130 - Aspen	Poletimber Medium	12.4	43	Unspecified	Some scattered sugar maple & basswood. Fully stocked stand but aspen sprouts have started filling in patchy areas. Thick understory hazel. Some draws on north end.
4130 - Aspen	Poletimber Medium	7.1	39	51-80	Falling apart, blowing over, full understory of aspen and hazel.
4130 - Aspen	Sapling Well	10.3	8	Immature	Retention in east end. The Sharp Sale cut 2010. Good amount of sugar maple saplings underneath, especially along road.
4130 - Aspen	Sapling Well	9.5	8	Immature	Retention in east end. The Sharp Sale cut 2010. Good amount of sugar maple saplings underneath, especially along road.
4130 - Aspen	Sapling Well	9.7	8	Immature	Retention in east end. The Sharp Sale cut 2010. Good amount of sugar maple saplings underneath, especially along road.



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
219	4130 - Aspen	Sapling Well	12.4	8	Immature	Retention in east end. The Sharp Sale cut 2010. Good amount of sugar maple saplings underneath, especially along road.	
220	4130 - Aspen	Sapling Well	6.7	8	Immature	Retention in east end. The Sharp Sale cut 2010. Good amount of sugar maple saplings underneath, especially along road.	
221	6111 - Lowland Balsam Poplar	Sapling Well	84.8	22	Unspecified	Old Grade TS closed 1996. Very wet with many seeps on the north side and draws going south	
222	6120 - Lowland Cedar	Poletimber Well	9.6	92	Unspecified		
223	4134 - Aspen, Spruce/Fir	Poletimber Well	10.5	48	Unspecified	aspen diameters range from 7-14"	
224	429 - Mixed Upland Conifers	Sawtimber Well	8.9	56	81-110		
225	6120 - Lowland Cedar	Poletimber Well	51.9	92	Unspecified	Bed and bank in this stand	
226	4134 - Aspen, Spruce/Fir	Sawtimber Medium	10.7	52	Unspecified	Aspen is of varying ages, but majority is 51 years old. Due to mortality, many canopy gaps exist. Much of Spruce/Fir has died from Spruce Budworm outbreak. Scattered supercanopy Red Pines and White Pines.	
227	4134 - Aspen, Spruce/Fir	Sawtimber Medium	10.8	52	Unspecified	Aspen is of varying ages, but majority is 51 years old. Due to mortality, many canopy gaps exist. Much of Spruce/Fir has died from Spruce Budworm outbreak. Scattered supercanopy Red Pines and White Pines.	
228	4134 - Aspen, Spruce/Fir	Sawtimber Medium	14.2	52	Unspecified	Aspen is of varying ages, but majority is 51 years old. Due to mortality, many canopy gaps exist. Much of Spruce/Fir has died from Spruce Budworm outbreak. Scattered supercanopy Red Pines and White Pines.	
229	4134 - Aspen, Spruce/Fir	Sawtimber Medium	8.9	52	Unspecified	Aspen is of varying ages, but majority is 51 years old. Due to mortality, many canopy gaps exist. Much of Spruce/Fir has died from Spruce Budworm outbreak. Scattered supercanopy Red Pines and White Pines.	
230	4110 - Sugar Maple Association	Poletimber Well	4.6	93	81-110		
231	4130 - Aspen	Sapling Well	8.3	20	Unspecified	Ralph TS closed 1987	
232	4130 - Aspen	Sapling Well	9.9	20	Unspecified	Ralph TS closed 1987	
233	4130 - Aspen	Sapling Well	13.4	20	Unspecified	Ralph TS closed 1987	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
234	4134 - Aspen, Spruce/Fir	Poletimber Well	7.7	63	Unspecified	birch component heavier along north edge. most of this stand being cut as SBW salvage, 581 Salvage TS.
235	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.7	93	81-110	
236	4130 - Aspen	Sapling Well	10.4	20	Unspecified	Ralph TS closed 1987
237	4130 - Aspen	Sapling Well	14.8	20	Unspecified	Ralph TS closed 1987
238	4130 - Aspen	Sapling Well	10.1	20	Unspecified	Ralph TS closed 1987
239	4130 - Aspen	Sapling Well	8.1	20	Unspecified	Ralph TS closed 1987
240	4130 - Aspen	Sapling Well	11.8	20	Unspecified	Ralph TS closed 1987
241	6120 - Lowland Cedar	Poletimber Well	179.3	98	Unspecified	Far east lobe has more black spruce/tamarack; there is also a narrowing which is more balsam poplar, spruce/birch
242	4134 - Aspen, Spruce/Fir	Sawtimber Well	17.9	63	Unspecified	
243	6111 - Lowland Balsam Poplar	Sapling Well	39.2	34	Unspecified	TSj closed in 1984; pocket of larger (~9" dbh) aspen in northwest lobe of stand, which is wet. Far south piece south of Dry Lk Rd is also quite wet.
244	4110 - Sugar Maple Association	Poletimber Well	172.2	93	81-110	Dry Lake Snake TS cut 2004 (south of Dry Lk Rd). Good draws on east side of Dry Lake Rd. Some blowdown from summer 2017.
245	4130 - Aspen	Sapling Well	21.1	4	Immature	Head Turner TS cut early 2015. Ash 8" dbh and smaller was retained; retention in far southeast finger.
246	4130 - Aspen	Sapling Well	13.4	4	Immature	Head Turner TS cut early 2015. Ash 8" dbh and smaller was retained; retention in far southeast finger.
247	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.5	85	Unspecified	There is a drainage running from this stand across the trail.
248	4130 - Aspen	Sapling Well	11.6	14	Unspecified	There is white pine residual trees in this stand. Cut 2004
249	4130 - Aspen	Sapling Well	9.5	14	Unspecified	There is white pine residual trees in this stand. Cut 2004
250	4134 - Aspen, Spruce/Fir	Sapling Well	21.8	30	Unspecified	Aspen saplings 2" to 8" dbh. Wet areas throughout. BF/WS has SBW in lower branches of understory.



Stand	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
251	4134 - Aspen, Spruce/Fir	Sapling Well	12.0	30	Unspecified	Aspen saplings 2" to 8" dbh. Wet areas throughout. BF/WS has SBW in lower branches of understory.	
252	4130 - Aspen	Sapling Well	13.1	23	Unspecified	Wooden Dray TS cut 1995. Lower along south and west edges.	
253	4130 - Aspen	Sapling Well	12.0	23	Unspecified	Wooden Dray TS cut 1995. Lower along south and west edges.	
254	4110 - Sugar Maple Association	Poletimber Well	41.7	88	81-110	Thinned in 2005 Turner Fire. Thicker BAs on north end. Some top dieback.	
255	4130 - Aspen	Poletimber Well	9.7	40	Unspecified		
257	4132 - Aspen, Jack Pine	Sapling Well	10.4	24	Unspecified	Mattson Salvage TS cut 1994, salvage from a fire. Jack pine heavier on west lobe.	
258	4132 - Aspen, Jack Pine	Sapling Well	7.3	24	Unspecified	Mattson Salvage TS cut 1994, salvage from a fire. Jack pine heavier on west lobe.	
259	4132 - Aspen, Jack Pine	Sapling Well	6.9	24	Unspecified	Mattson Salvage TS cut 1994, salvage from a fire. Jack pine heavier on west lobe.	
260	4130 - Aspen	Sapling Well	12.5	4	Immature	Head Turner TS cut 2014	
261	4130 - Aspen	Sapling Well	11.7	4	Immature	Head Turner TS cut 2014	
262	4130 - Aspen	Sapling Well	6.0	4	Immature	Head Turner TS cut 2014	
263	4130 - Aspen	Sapling Well	10.9	4	Immature	Head Turner TS cut 2014	
264	4130 - Aspen	Sapling Well	18.7	4	Immature	Head Turner TS cut 2014	
265	4130 - Aspen	Poletimber Well	12.2	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".	
266	4130 - Aspen	Poletimber Well	7.9	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".	
267	4130 - Aspen	Poletimber Well	5.0	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".	
268	4130 - Aspen	Poletimber Well	11.0	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".	



S t a n d	Crystal Falls Mgt. Unit		Report 7 – Forested Stands			Compartment: 36 Year of Entry: 2020	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
269	4130 - Aspen	Poletimber Well	9.5	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10".	
270	4130 - Aspen	Sapling Well	3.7	15	Unspecified	Sund Sale TS cut 2003	
271	4130 - Aspen	Sapling Well	14.0	15	Unspecified	Sund Sale TS cut 2003	
272	4130 - Aspen	Sapling Well	15.2	15	Unspecified	Sund Sale TS cut 2003	
273	6120 - Lowland Cedar	Poletimber Well	3.8	98	Unspecified		
274	42210 - Natural Red Pine	Sawtimber Well	17.6	88	141-170	aspen ranges from 5-12" dbh. Red pine has relatively small crowns with dbhs from 7-14". Good hill on east side (west facing). Southwest side has 6" dbh trees of aspen. Only a portion of stand will need thinning as most of red pine is on east 1/3 of stand.	
275	6139 - Mixed Lowland Forest	Poletimber Well	38.1	75	Unspecified	Bed and bank and river buffer	
999	4130 - Aspen	Poletimber Well	4.5	48	Unspecified	Overstory conifer dying from SBW. Aspen diameters range from 6-10". This stand will be harvested with stand 185 to form a new stand. Therefore it is given a bogus number as it will not be its own stand post harvest.	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6220 - Alder/willow	92.6	No	OPIC - FMD: OI Stand Year Origin was
137	320 - Upland Shrub	4.3		Was planted to red pine and white pine in summer 2016
145	320 - Upland Shrub	46.0		FTP 13-1169. Red pine and white pine planted summer 2016.
152	6220 - Alder/willow	2.6	No	
210	500 - Water	14.2	No	Dry Lake
256	3301 - Low Density Deciduous Tree	12.9		Stand cut fall 2016 Gemboree TS salvage SBW
400	330 - Low-Density Trees	60.0	No	Stand is really filling in with spruce, aspen, balm of gilead, balsam
401	3102 - Grass	5.4	No	Hunter walking trail
402	3102 - Grass	13.9	Yes	Hunter walking trail opening maintenance
403	310 - Herbaceous Openland	0.7	Yes	Trail was
404	330 - Low-Density Trees	9.6	No	OPIC - FMD: OI Stand Year Origin was
405	330 - Low-Density Trees	8.5	No	
406	3102 - Grass	12.2	Yes	OPIC - FMD: Maintain hunter walking trail. OI Stand Year Origin was
407	3102 - Grass	9.4	No	Hunter walking trail opening maintenance
408	3102 - Grass	12.0	No	OPIC - FMD: OI Stand Year Origin was
409	3102 - Grass	29.1	No	OPIC - FMD: OI Stand Year Origin was
410	3102 - Grass	3.3	Yes	OPIC - FMD: OI Stand Year Origin was
411	2114 - Other Cropland	42.7	Yes	Allow share cropping and permit as necessary.



Stand	Cover Type	Acres	Managed Site	General Comments:
412	310 - Herbaceous Openland	14.4	No	
413	3102 - Grass	10.7	No	Hunter walking trail
414	3102 - Grass	6.2	No	Hunter Walking Trail Opening Maintenance
415	310 - Herbaceous Openland	9.1	No	
416	310 - Herbaceous Openland	3.7	No	
417	3102 - Grass	14.9	Yes	
418	310 - Herbaceous Openland	6.1	No	some scattered spruce, aspen in here.
419	3102 - Grass	10.5	No	Hunter walking trail opening
420	3102 - Grass	80.1	No	Grass opening. Far east finger is 4" aspen. edges of stand are spruce, balsam, balm, aspen close to 4" dbh as well.