



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12007

Entry Year 2022

Acreage: 3,290

County Dickinson

Management Area: Floodwood Plains

Revision Date: 2020-10-19

Stand Examiner: Scott Sebero

Legal Description:

T44N, R29W, Sections 9, 15, 16, 17, 19, 20, 21, 29 & 30.

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and topography:

Land is nearly level to hilly with a mix of Pemene and Emmet soils that are well-drained loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops up to 50 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

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

Ownership patterns in and around this compartment consist mostly of State lands with a few private parcels and camps. These lands are used mainly for hunting and managed for forest products.

Unique Natural Features:

Two Mile Creek.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The northern region of this compartment borders Twomile Creek which serves as tributary to the Main Branch of the Ford River. A 300' buffer is 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:

Compartment 7 is located in the heart of the historic Floodwood Deeryard in northwest Dickinson County. Almost $\frac{3}{4}$ of the compartment is a combination of aspen and swamp conifer types. Many of the swamp conifer types are high quality cedar that should be protected. Care should be taken to assure the stands remain intact, if harvesting takes place in adjacent stands. Adequate buffers to protect drainages and guard against blow down should be provided in all upland sales. Travel corridors should be maintained between Q-types. The compartment contains state game fund, MNRTF, and Land Exchange Facilitation Fund purchased lands.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 0 and 100 feet in the west. Precambrian granite/gneiss and the Michigamme Formation subcrop below the glacial drift. There is not an economic use for these rocks, although some of the granite might have dimension stone potential. Iron mines are located approximately fourteen miles to the south. A gravel pit is indicated two miles to the west. There appears to be good gravel potential in the compartment. Part of this area was previously leased for metallic exploration and potential may still exist. The Compartment to the north has been nominated for metallic leasing. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is from Two Mile Creek Road and associated trail roads.

Survey Needs:

None.

Recreational Facilities and Opportunities:

This area is used heavily by both deer and grouse hunters. Two Mile Creek is a good quality trout stream.

Fire Protection:

None.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

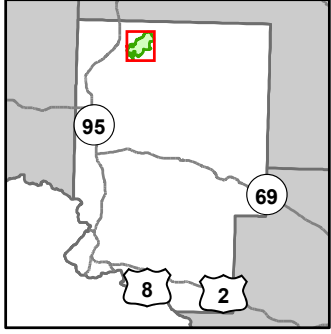
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

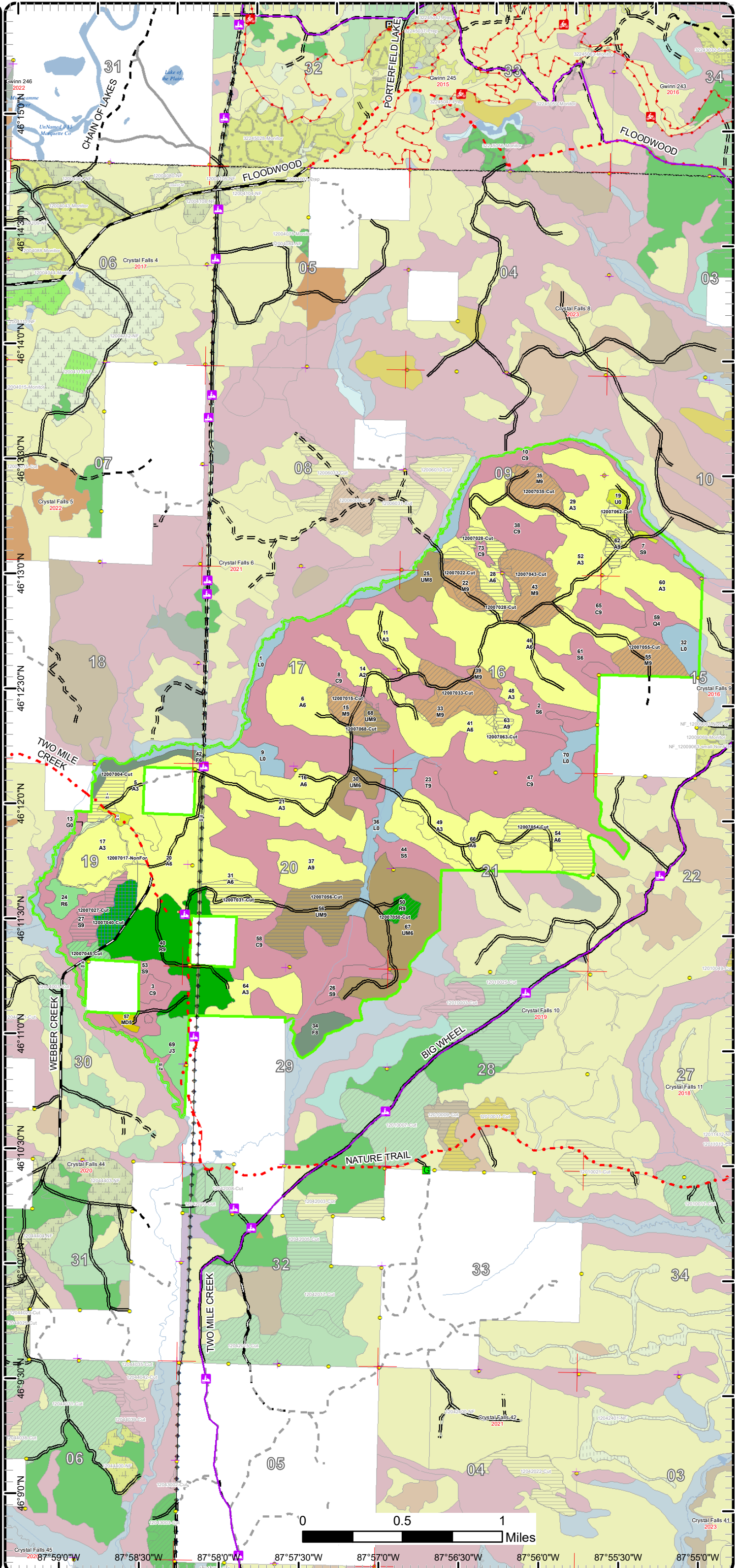
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 7
 T44N, R29W, Sec. 9, 10, 15-22, 28-30
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Floodwood Plains
 YOE: 2022
 Acres: 3289.8 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 1/22/2021
 Map Phase: Post-Review



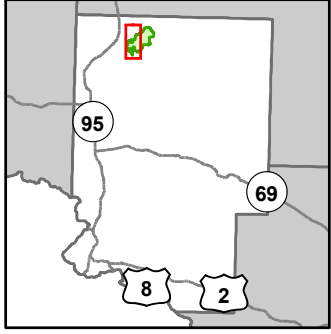
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Perennial River
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



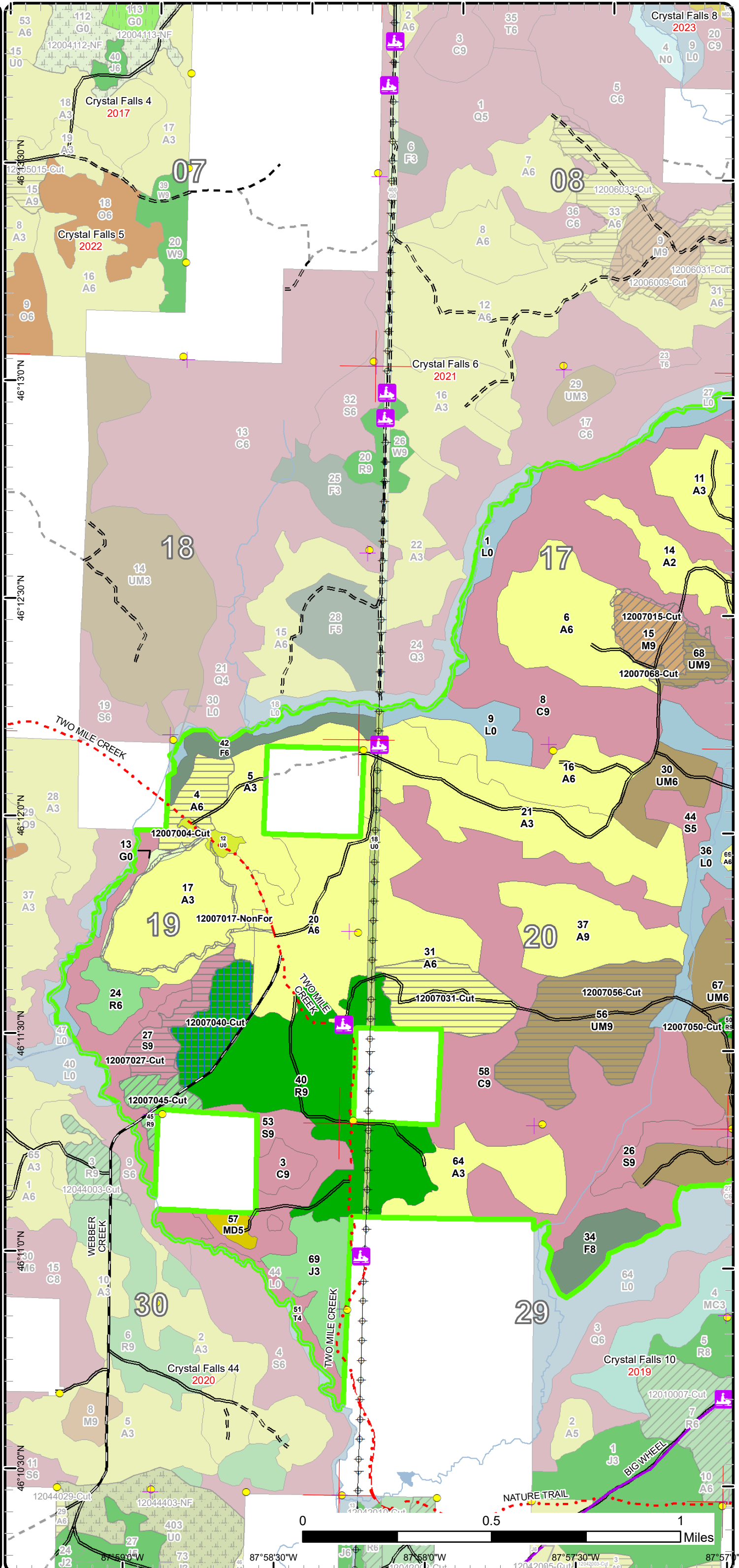
Crystal Falls 45
 2023
 87°59'0"W 87°58'30"W 87°58'0"W 87°57'30"W 87°57'0"W 87°56'30"W 87°56'0"W 87°55'30"W 87°55'0"W

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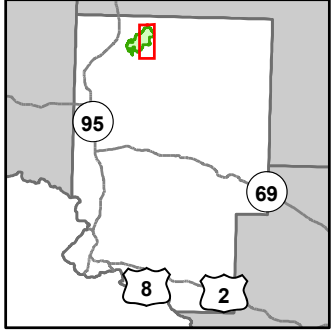
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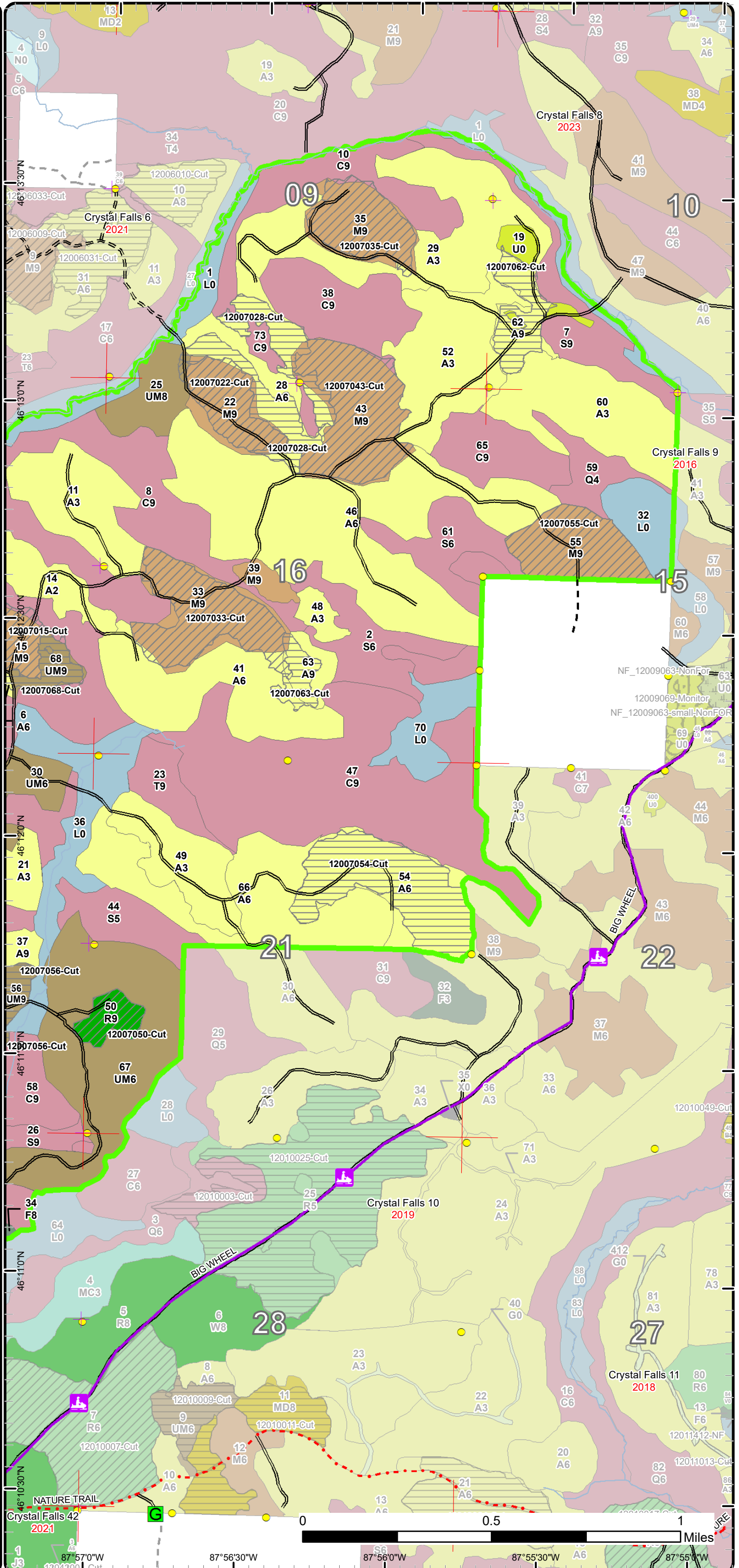
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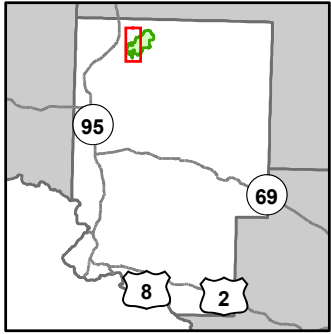
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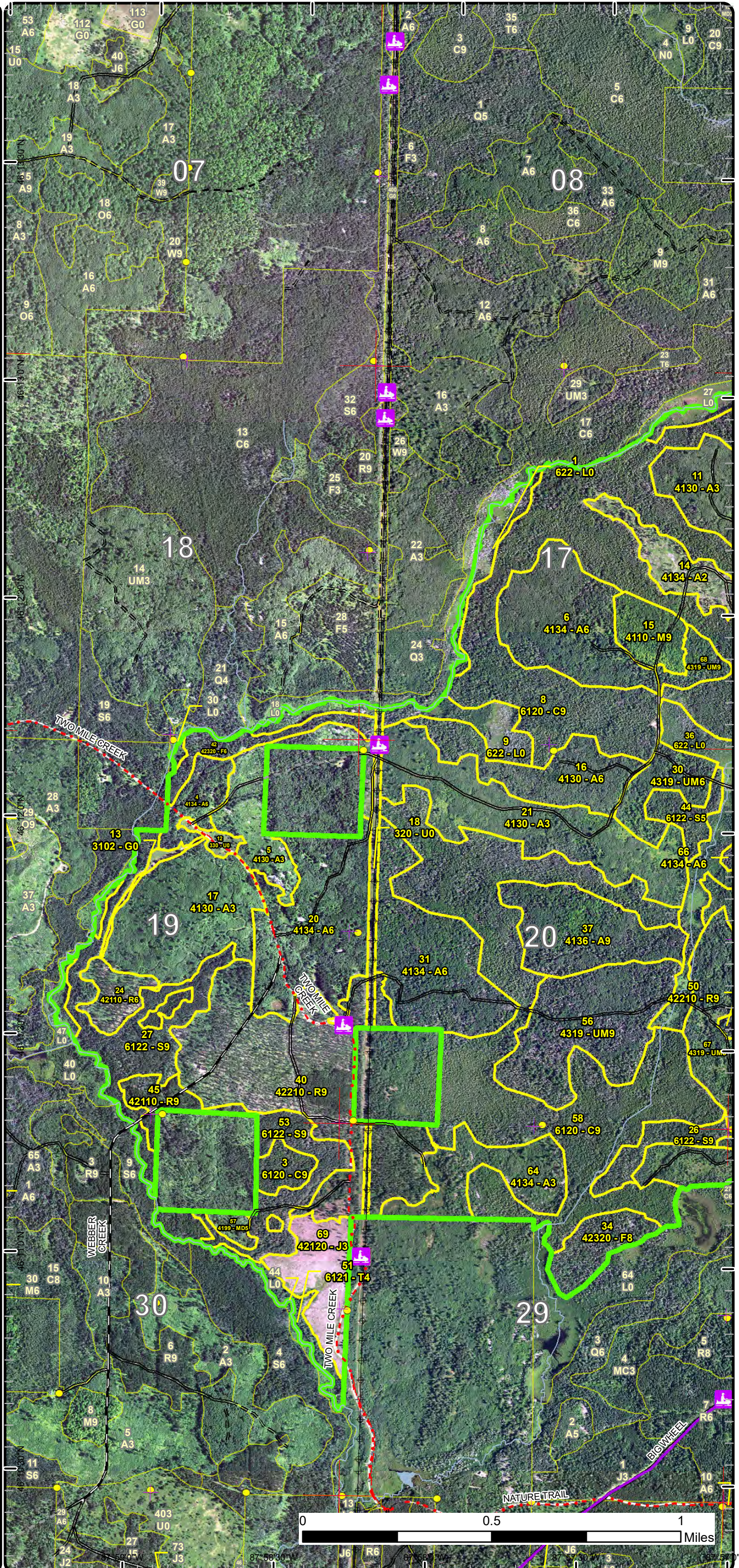
Crystal Falls 42 2021
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 46°11'0"N 87°56'30"W
 46°11'30"N 87°56'0"W
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 0 0.5 1 Miles

Stand Boundary Map

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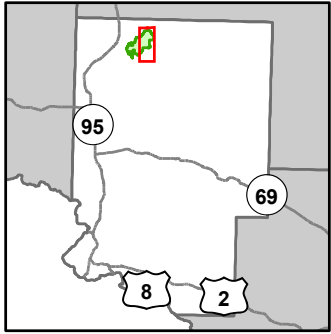


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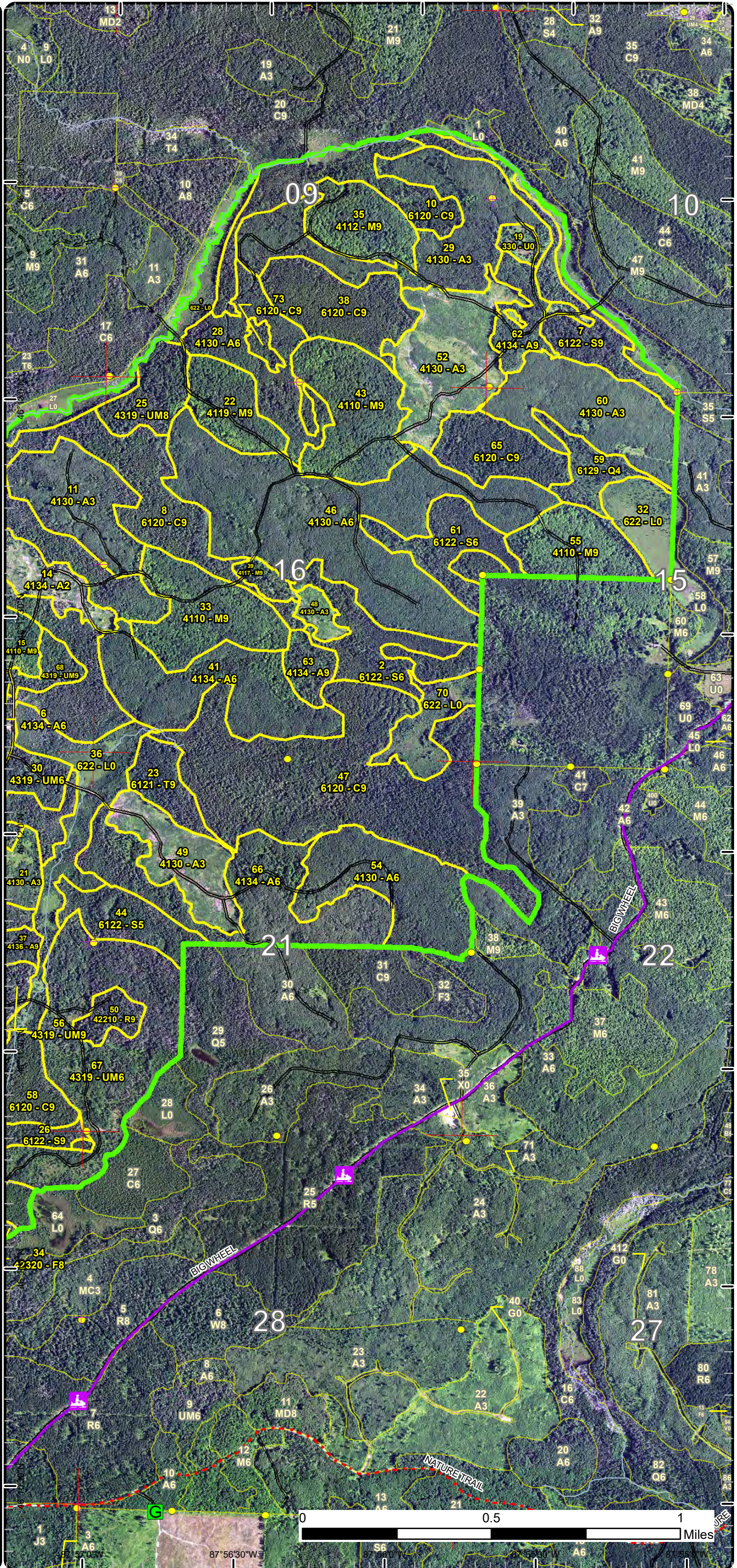


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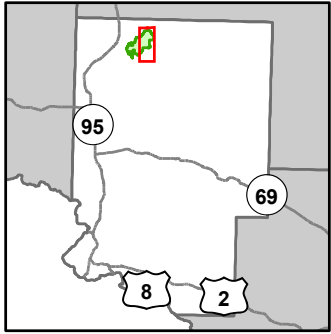


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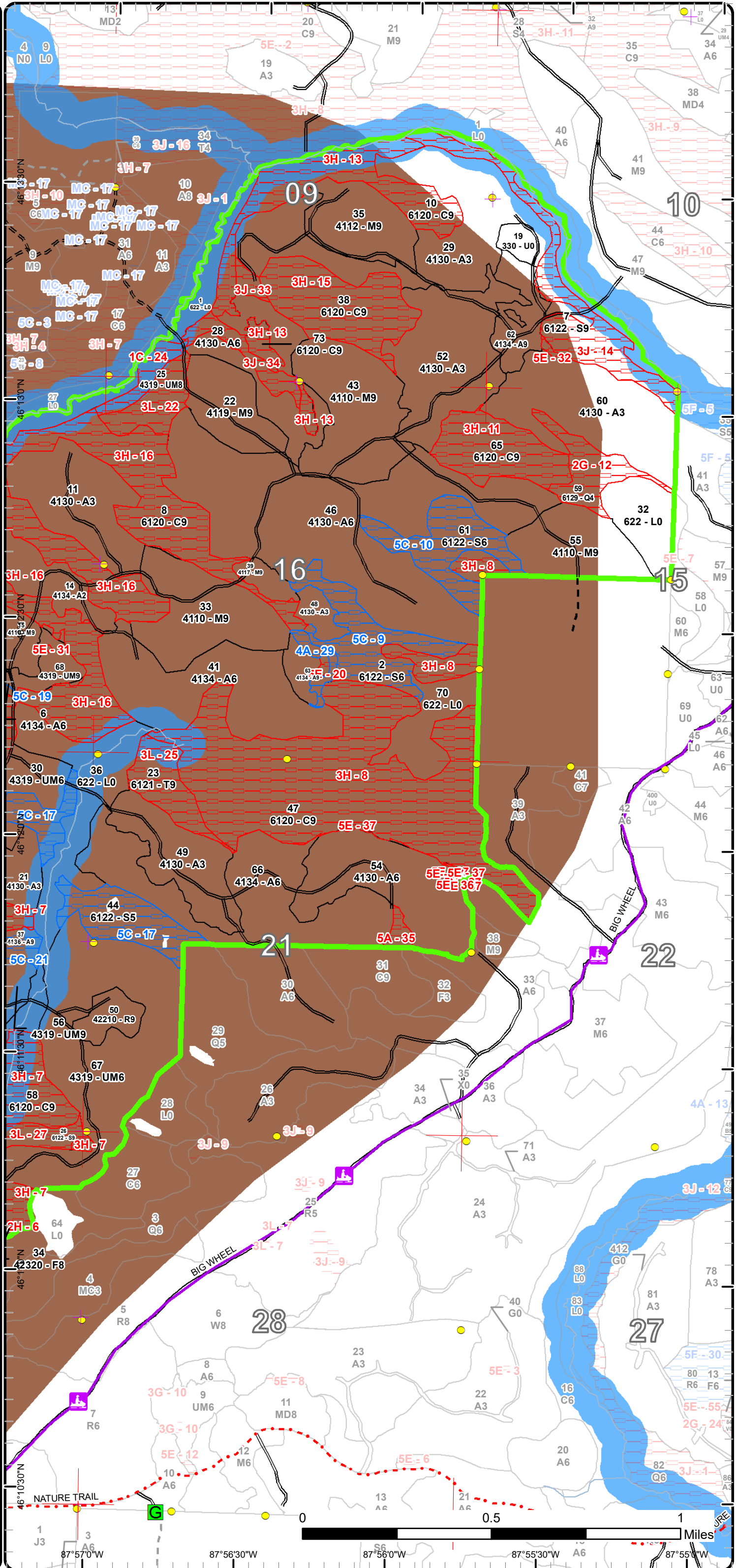


Special Conservation Areas

Compartment: 7
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- 🌊 Perennial River
- 🚪 Gate
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 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	168	213	166	316	350	79	0	0	0	12	0	0	0	0	0	0	0	1304
Cedar	0	0	0	0	0	0	0	0	0	0	792	0	0	0	0	0	0	0	792
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Lowland Shrub	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	240	0	0	0	0	0	0	0	239
Mixed Upland Deciduous	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	7	214	0	0	0	0	0	0	221
Red Pine	0	0	0	0	0	0	0	26	0	0	145	0	0	0	0	0	0	0	171
Tamarack	0	0	0	0	0	0	11	0	0	0	18	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	0	0	110	22	0	81	0	0	24	0	0	0	0	0	0	0	237
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Spruce/Fir	0	0	0	0	0	0	16	0	0	0	21	0	0	0	0	0	0	0	37
Total	205	201	213	166	431	372	106	107	0	0	1277	214	0	0	0	0	0	0	3290



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 7
Total Compartment Acres: 3,290

Commercial Harvest - 513
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	167	0	0	0	0	0	0	0	0	167
Lowland Spruce/Fir	18	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	200	0	0	0	200
Red Pine	0	0	0	25	0	23	0	0	0	48
Upland Mixed Forest	81	0	0	0	0	0	0	0	0	81
Total	266	0	0	25	0	223	0	0	0	513

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	513	0	0	0	0	0	0	5	0	519
Next Step	0	25	0	0	0	25	266	0	0	315
Total	513	25	0	0	0	25	266	0	5	834



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:

4	12007004-Cut	16.8	4134 - Aspen, Spruce/Fir	Poletimber Well	50	1-50	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave wet area and buffer it.</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> Mix of aspen, spruce and balsam.</p> <p><u>Regen:</u></p> <p><u>Other</u> Leave small bam drain on west side, north of road.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
15	12007015-Cut	20.4	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark hardwood to 80 BA. Cut all aspen, spruce and balsam with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
17	12007017- NonFor	5.2	4130 - Aspen	Sapling Well	18	Unspec ified	NonForestMgt	Other - Specify	31021 - Cool Season Grass		No
<p><u>Prescription</u> Opening Maintenance: Disc, Seed & Fertilize, and Berm Hunter Walking Trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 3 /16/2020</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22 12007022-Cut	23.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	101	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark hardwood to 80 BA. Cut all aspen, spruce and balsam with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Mark one mature aspen or paper birch per acre to be retained.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
27 12007027-Cut	17.9	6122 - Black Spruce	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees with one or more pulpwood stick, except cedar, hemlock and red and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of spruce, balsam and tamarack.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
28 12007028-Cut	35.1	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut.</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> Mix of aspen, spruce and balsam.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
31 12007031-Cut	34.9	4134 - Aspen, Spruce/Fir	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood stick. No white pine, cedar, hemlock or oak will be cut. Some red pine in pockets may be marked to cut to release better quality trees. Only marked red pine will be cut.</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> Mix of aspen, spruce, balsam and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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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33	12007033-Cut	44.1	4110 - Sugar Maple Association	Sawtimber Well	101	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark hardwood to 80 BA. Cut all aspen with one or more pulpwood stick. No conifer or oak will be cut. Leave one birch per acre.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

35	12007035-Cut	28.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	101	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark hardwood to 80 BA. Cut all aspen with one or more pulpwood stick. No conifer or oak will be cut. Leave one birch or aspen per acre.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

40	12007040-Cut	24.7	42210 - Natural Red Pine	Sawtimber Well	91	81-110	Harvest	Seed Tree	42210 - Natural Red Pine	Even-Aged	No
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Prescription Mark two to three clumps of three to five trees per acre to serve as seed trees. Leave all white pine, oak, large diameter red pine and one stick and smaller spruce and balsam.
Specs:

Next Step SitePrep, Scarification; Pesticide, Hand Application
Treatments:

Acceptable Mix of red and white pine.
Regen:

Other Herbicide pockets of aspen and maple regen.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

43	12007043-Cut	50.0	4110 - Sugar Maple Association	Sawtimber Well	101	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
----	--------------	------	--------------------------------	----------------	-----	---------	---------	----------------	-------------------------	-----------	----

Prescription Mark hardwood to 80 BA. Cut all aspen, spruce and balsam with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave one aspen or birch per acre.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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45	12007045-Cut	11.9	42110 - Planted Red Pine	Sawtimber Well	65	111- 140	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
----	--------------	------	-----------------------------	-------------------	----	-------------	---------	----------------	-----------------------------	-----------	----

Prescription Thin pine to 100 BA. Cut all aspen, spruce balsam and jack pine with two or more pulpwood stick. Hold all white pine.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

50	12007050-Cut	10.9	42210 - Natural Red Pine	Sawtimber Well	91	141- 170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
----	--------------	------	-----------------------------	-------------------	----	-------------	---------	----------------	-----------------------------	-----------	----

Prescription Thin red pine to 100 BA. Cut aspen, spruce and balsam wit two or more sticks. Leave white pine and legacy red pine. Wildlife will assist in legacy tree determination. Mark 1 large aspen per plot to retain as soft snags.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

54	12007054-Cut	53.7	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
----	--------------	------	--------------	--------------------	----	--------	---------	----------------------------	-----------------------------	-----------	----

Prescription Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar, hemlock, black ash or oak will be cut. Leave one cherry per acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

55	12007055-Cut	34.0	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
----	--------------	------	-----------------------------------	-------------------	-----	-------------	---------	----------------	----------------------------	-----------	----

Prescription Mark hardwood to 80 BA. Cut all aspen, spruce and balsam with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave one aspen or birch per acre.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
56 12007056-Cut	70.8	4319 - Mixed Upland Forest	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut. Leave one aspen or birch per acre.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, spruce and balsam.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
62 12007062-Cut	17.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, spruce and balsam.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
63 12007063-Cut	8.6	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and maple with one or more pulpwood stick. Cut all birch, spruce and balsam with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut. Leave one birch per acre.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, sugar maple, spruce and balsam.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
68 12007068-Cut	10.4	4319 - Mixed Upland Forest	Sawtimber Well	61	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or larger, except oak. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, spruce and balsam.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
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Total Treatment Acreage Proposed: 518.6

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 7

Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions											
		With Condition				4A	5B	5C	1C	2G	2H	3B	3H	3J	3L	5A	5E
1303	1134	149		20	Aspen	5		145	0				0	13		3	3
792	1	0		791	Cedar								791				0
3	3	0		0	Herbaceous Openland												
33	33	0		0	Jack Pine												
13	13	0		0	Low-Density Trees								0				
18	0	0		18	Lowland Conifers				18								
175	175	0		0	Lowland Shrub												
240	18	102		120	Lowland Spruce/Fir			102					66	54			
5	5	0		0	Mixed Upland Deciduous												
221	221	0		0	Northern Hardwood								0				
171	62	100		9	Red Pine		100					9					
30	0	0		30	Tamarack								11	18			
237	213	0		24	Upland Mixed Forest				8				0		15		0
13	13	0		0	Upland Shrub												
38	0	0		38	Upland Spruce/Fir					21			16				
3,290	1,891	351		1,048	Total Forested Acres	5	100	246	8	18	21	9	791	107	88	3	4
	57%	11%		32%	Relative Percent												

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3B: Threatened, endangered, and special concern species	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Remove site condition if bird is not using nest.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Two Mile Creek.							

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3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Two Mile Creek.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Two Mile Creek.							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	218	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	182	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	245	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Two Mile Creek.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 63							

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21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer cover.							
23	Available	5B: Maintain for regeneration purposes	100	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	1C: Other dept or div proc/practices	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 foot buffer per Fish Division request.							
25	Unavailable	3L: Other wildlife concerns	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3L: Other wildlife concerns	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Unavailable	3L: Other wildlife concerns	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Excluded from treatment on stand 63 because this area has all essentially fallen down and has thick sapling regeneration that is mainly maple.							
31	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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35	Unavailable	5A: Not able to obtain desirable regeneration	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small cedar pocket included in Stand 54 that was excluded from timber sale.</p>							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	622 - Lowland Shrub	Nonstocked	60.0		Unspecified	No																																											
2	6122 - Black Spruce	Poletimber Well	32.4	91	81-110	N/A																																											
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4	4134 - Aspen, Spruce/Fir	Poletimber Well	16.8	50	1-50	N/A																																											
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6	4134 - Aspen, Spruce/Fir	Poletimber Well	61.8	49	51-80	N/A	Permit # 14-71																																										
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7	6122 - Black Spruce	Sawtimber Well	36.5	91	111-140	N/A																																											
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9	622 - Lowland Shrub	Nonstocked	18.2		Unspecified	No																																														
10	6120 - Lowland Cedar	Sawtimber Well	46.6	91	111-140	N/A																																														
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12	330 - Low-Density Trees	Nonstocked	4.3	0	Unspecified	No	Opening.																																													
13	3102 - Grass	Nonstocked	3.5		Unspecified	Managed Opening	Maintained by Wildlife Division.																																													
14	4134 - Aspen, Spruce/Fir	Sapling Medium	26.0	6	Immature	N/A	Harvested 2015- Removed all aspen, hardwood and pole size or larger spruce and fir.																																													
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15	4110 - Sugar Maple Association	Sawtimber Well	18.9	101	111-140	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4130 - Aspen	Poletimber Well	41.7	42	81-110	N/A	Permit number 42-71A
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Pole/Sap/Log	8	42	Balsam Fir	
Balsam Fir		10	Pole/Sapling	6		Black Spruce	
Black Spruce		5	Pole/Sapling	6		Density	
Balsam Poplar		5	Pole/Sapling	6		Avg. Height	
						Size	
						Sapling	
						Sapling	
17	4130 - Aspen	Sapling Well	68.0	18	Unspecified	N/A	Contains hunter walking trail. Scattered log sized oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Sapling	3	18	Black Spruce	
Balsam Fir		5	Sapling/Pole	3	18	Density	
Red Pine		5	Log/Pole/Sap	12		Avg. Height	
Black Spruce		5	Sapling/Pole	3	18	Size	
						Sapling	
18	320 - Upland Shrub	Nonstocked	13.4		Unspecified	No	Powerline.
19	330 - Low-Density Trees	Nonstocked	8.3		Unspecified	No	
20	4134 - Aspen, Spruce/Fir	Poletimber Well	77.6	37	51-80	N/A	Permit # 14-82A
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Pole/Sapling	6	37	Balsam Fir	
Balsam Fir		15	Pole/Sapling	6	37	Black Spruce	
Black Spruce		10	Pole/Sapling	6	37	Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
21	4130 - Aspen	Sapling Well	83.3	17	Immature	N/A	Bart's Sale
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Sapling	2	17	Balsam Fir	
Balsam Fir		10	Sapling	2		Density	
Black Spruce		5	Sapling	2		Avg. Height	
Red Maple		10	Sapling	2		Size	
Balsam Poplar		10	Sapling	2		Sapling	
22	4119 - Mixed Northern Hardwoods	Sawtimber Well	27.7	101	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Log/Pole/Sap	10	101	Ironwood	
Paper Birch		10	Log/Pole	10		Leatherwood	
Quaking Aspen		15	Pole/Log	10	101	Density	
White Spruce		5	Log/Pole	12	101	Avg. Height	
Sugar Maple		40	Log/Pole/Sap	10	101	Size	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	6121 - Tamarack	Sawtimber Well	18.3	91	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		10	Log/Pole	10	91	Tag Alder	
Black Spruce		10	Pole/Sap/Log	8	91	Density	Avg. Height
Tamarack		80	Log/Pole/Sap	10	91	Low	5 - 10 feet
							Tall Shrub
24	42110 - Planted Red Pine	Poletimber Well	14.3	65	81-110	N/A	Blue Line Pine 2015.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log/Pole/Sap	10	65	Black Spruce	
White Pine		5	Log/Pole/Sap	12		Density	Avg. Height
						Low	5 - 10 feet
							Sapling
						Quaking Aspen	Low
							5 - 10 feet
							Sapling
25	4319 - Mixed Upland Forest	Sawtimber Medium	23.6	91	51-80	N/A	Lots of blow down.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		30	Log/Pole/Sap	10	91	Balsam Fir	
Balsam Fir		5	Pole/Sap/Log	8		Density	Avg. Height
Black Spruce		30	Log/Pole/Sap	10	91	Low	5 - 10 feet
Northern White Cedar		5	Log/Pole	10	91		Sapling
Paper Birch		10	Log/Pole	10		Black Spruce	Low
Quaking Aspen		10	Log/Pole/Sap	10	91		5 - 10 feet
White Pine		10	Log/Pole/Sap	16	91		Sapling
26	6122 - Black Spruce	Sawtimber Well	15.0	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		50	Log/Pole/Sap	10	91	Black Spruce	
Northern White Cedar		5	Log/Pole	10		Density	Avg. Height
Tamarack		45	Log/Pole/Sap	10	91	Low	Variable
							Sapling
27	6122 - Black Spruce	Sawtimber Well	53.4	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		90	Log/Pole/Sap	10	91	Black Spruce	
Northern White Cedar		5	Log/Pole	10		Density	Avg. Height
Tamarack		5	Log/Pole/Sap	10		Low	5 - 10 feet
							Sapling
28	4130 - Aspen	Poletimber Well	43.1	51	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		60	Log/Pole	10	51	Balsam Fir	
Balsam Fir		5	Pole/Sap/Log	8		Density	Avg. Height
Balsam Poplar		20	Log/Pole/Sap	10		Low	5 - 10 feet
Paper Birch		10	Log/Pole	10			Sapling
Black Spruce		5	Log/Pole/Sap	10			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4130 - Aspen	Sapling Well	80.3	24	Immature	N/A	Strahav North
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Sapling/Pole	4	24	Balsam Fir	
Balsam Fir		10	Sapling/Pole	4		Black Spruce	
Black Spruce		5	Sapling/Pole	4		Density	
Balsam Poplar		5	Sapling	4		Avg. Height	
Red Maple		5	Sapling	4		Size	
						Balsam Fir	
						Black Spruce	
						Density	
						Avg. Height	
						Size	

30	4319 - Mixed Upland Forest	Poletimber Well	21.9	41	51-80	N/A	Permit # 6-80
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Pole/Sap/Log	8	41	Balsam Fir	
Balsam Fir		25	Pole/Sapling	6		Black Spruce	
Black Spruce		25	Pole/Sapling	6		Density	
						Avg. Height	
						Size	
						Balsam Fir	
						Black Spruce	
						Density	
						Avg. Height	
						Size	

31	4134 - Aspen, Spruce/Fir	Poletimber Well	68.2	49	81-110	N/A	Permit # 22-71
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Pole/Log	8	49	Balsam Fir	
Balsam Fir		5	Pole/Sapling	6		Black Spruce	
Black Spruce		25	Pole/Sap/Log	8		Density	
Red Pine		5	Log/Pole	12		Avg. Height	
						Size	
						Balsam Fir	
						Black Spruce	
						Density	
						Avg. Height	
						Size	

32	622 - Lowland Shrub	Nonstocked	21.8		Unspecified	No	
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33	4110 - Sugar Maple Association	Sawtimber Well	48.4	101	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole/Sap	10	101	Sugar Maple	
Yellow Birch		5	Log/Pole	12	101	Black Spruce	
Basswood		5	Log/Pole	12	101	Ironwood	
Red Maple		10	Log/Pole/Sap	10	101	Density	
Quaking Aspen		5	Log/Pole	10		Avg. Height	
						Size	
						Sugar Maple	
						Black Spruce	
						Ironwood	
						Density	
						Avg. Height	
						Size	

34	42320 - Upland Spruce	Sawtimber Medium	21.1	91	51-80	N/A	Most of balsam dead.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole/Sap/Log	8		Black Spruce	
Black Spruce		65	Log/Pole/Sap	10	91	Density	
Paper Birch		20	Log/Pole	10		Avg. Height	
White Pine		5	Log/Pole/Sap	14		Size	
Quaking Aspen		5	Log/Pole	12		Black Spruce	
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4112 - Maple, Beech, Cherry Association Sawtimber Well 31.7 101 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole/Sap	10	101	Balsam Fir	Low	5 - 10 feet	Sapling
Basswood	5	Log/Pole	12	101	Ironwood	High	Variable	Sapling
Yellow Birch	5	Log/Pole	10	101	Leatherwood	Low	< 5 feet	Tall Shrub
Red Maple	20	Log/Pole/Sap	12	101				

36 622 - Lowland Shrub Nonstocked 52.4 Unspecified No

37 4136 - Aspen, Mixed Conifer Sawtimber Well 50.1 49 81-110 N/A Permit # 59-72

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Pole/Log	8	49	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sap/Log	8		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole/Sap/Log	8					
Red Pine	5	Log/Pole/Sap	14					
Red Maple	5	Pole/Sap/Log	8					

38 6120 - Lowland Cedar Sawtimber Well 43.3 91 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	5	Log/Pole/Sap	10		Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	90	Log/Pole	10	91				

39 4117 - Mixed N. Hardwood - Pine Sawtimber Well 6.7 91 81-110 N/A Thinned 2015

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole/Sap	10	91	Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	10	Log/Pole/Sap	10		Red Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log/Sap	6	96	Black Spruce	Low	5 - 10 feet	Sapling
White Pine	20	Log/Pole/Sap	14	91				
Northern White Cedar	5	Log/Pole	10					

40 42210 - Natural Red Pine Sawtimber Well 133.7 91 81-110 N/A Blue Line Pine 2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole/Sap	14		Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine	90	Log/Pole/Sap	12	91	Black Spruce	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	4134 - Aspen, Spruce/Fir	Poletimber Well	67.3	41	81-110	N/A	Permit # 54-76A
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		80	Pole/Sapling	6	41	Balsam Fir	
Balsam Fir		10	Pole/Sapling	6		Black Spruce	
Black Spruce		10	Pole/Sapling	6			
						Density	Avg. Height
							Size
42	42320 - Upland Spruce	Poletimber Well	16.4	51	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		20	Pole/Log	8	51	Balsam Fir	
Balsam Fir		20	Pole/Sapling	6		Black Spruce	
Black Spruce		60	Pole/Sap/Log	8	51		
						Density	Avg. Height
							Size
43	4110 - Sugar Maple Association	Sawtimber Well	53.5	101	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole/Sap	10	101	Sugar Maple	
Red Maple		10	Log/Pole/Sap	12	101	Balsam Fir	
Basswood		5	Log/Pole	14	101	Ironwood	
Quaking Aspen		5	Pole/Log	8			
Balsam Fir		5	Pole/Sapling	6			
						Density	Avg. Height
							Size
44	6122 - Black Spruce	Poletimber Medium	38.5	91	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		80	Log/Pole/Sap	10	91	Black Spruce	
Northern White Cedar		10	Log/Pole	10	91	Alder	
Tamarack		10	Log/Pole/Sap	10	91		
						Density	Avg. Height
							Size
45	42110 - Planted Red Pine	Sawtimber Well	11.9	65	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		5	Log/Pole/Sap	10		Quaking Aspen	
Black Spruce		5	Pole/Log/Sap	8		Balsam Fir	
Red Pine		90	Log/Pole	10	65		
						Density	Avg. Height
							Size
46	4130 - Aspen	Poletimber Well	161.2	31	51-80	N/A	Rabbit Sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole/Sapling	5	31	Balsam Fir	
Balsam Fir		5	Pole/Sapling	5			
Red Maple		5	Pole/Sapling	5			
Black Spruce		5	Pole/Sapling	5			
						Density	Avg. Height
							Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
47	6120 - Lowland Cedar	Sawtimber Well	182.4	91	141-170	N/A																																													
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50	42210 - Natural Red Pine	Sawtimber Well	10.9	91	141-170	N/A																																													
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51	6121 - Tamarack	Poletimber Poor	11.3	51	1-50	N/A																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	6122 - Black Spruce	Sawtimber Well	33.1	91	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		90	Log/Pole/Sap	10	91	Balsam Fir	
Northern White Cedar		5	Log/Pole	10		Black Spruce	
Tamarack		5	Log/Pole/Sap	10		Density	
						Avg. Height	
						Size	
54	4130 - Aspen	Poletimber Well	60.5	48	81-110	N/A	Permit # 57-73
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Log/Sap	8	48	Balsam Fir	
Balsam Fir		5	Pole/Sap/Log	8	48	White Spruce	
White Spruce		5	Pole/Sap/Log	8	48	Density	
						Avg. Height	
						Size	
55	4110 - Sugar Maple Association	Sawtimber Well	34.0	101	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		80	Log/Pole/Sap	10	101	Ironwood	
Red Maple		15	Log/Pole	12	101	Leatherwood	
Basswood		5	Log/Pole	14	101	Density	
						Avg. Height	
						Size	
56	4319 - Mixed Upland Forest	Sawtimber Well	70.8	61	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		50	Log/Pole	10	61	Balsam Fir	
Balsam Fir		5	Pole/Sap/Log	8		Black Spruce	
Black Spruce		40	Log/Pole/Sap	10		Density	
Red Pine		5	Log/Pole/Sap	14		Avg. Height	
						Size	
57	4199 - Other Mixed Upland Deciduous	Poletimber Medium	5.0	31	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		95	Pole/Sapling	6	31	Black Cherry	
Black Spruce		5	Pole/Sapling	6		Density	
						Avg. Height	
						Size	
58	6120 - Lowland Cedar	Sawtimber Well	217.5	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Log/Pole/Sap	10		Black Spruce	
Northern White Cedar		75	Log/Pole	10	91	Density	
Tamarack		10	Log/Pole/Sap	10		Avg. Height	
Black Ash		5	Pole/Sap/Log	8		Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 17.5 91 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	10	Pole/Log	8	
Balsam Fir	10	Pole/Sap/Log	8	
Black Spruce	35	Pole/Sap/Log	8	91
Northern White Cedar	30	Log/Pole	10	91
Black Ash	5	Pole/Sapling	6	
Tamarack	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Alder	Medium	5 - 10 feet	Tall Shrub

60 4130 - Aspen Sapling Well 61.9 17 Immature N/A Lonely Land.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	3	17
Balsam Fir	10	Sapling/Pole	3	17

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

61 6122 - Black Spruce Poletimber Well 30.8 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Pole/Log/Sap	8	
Balsam Fir	5	Pole/Sapling	6	
Black Spruce	80	Pole/Log/Sap	8	91
Northern White Cedar	5	Log/Pole	10	91
Tamarack	5	Pole/Log/Sap	8	

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

62 4134 - Aspen, Spruce/Fir Sawtimber Well 18.7 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Log/Pole	10	57
Balsam Fir	10	Pole/Log/Sap	8	
Black Spruce	10	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling

63 4134 - Aspen, Spruce/Fir Sawtimber Well 12.1 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log/Pole/Sap	10	
Balsam Fir	5	Pole/Log/Sap	8	
Black Spruce	20	Log/Pole/Sap	10	91
Northern White Cedar	5	Log/Pole	10	91
Sugar Maple	5	Log/Pole/Sap	10	
Paper Birch	20	Log/Pole	10	91
Quaking Aspen	40	Log/Pole/Sap	12	91

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Sugar Maple	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	4134 - Aspen, Spruce/Fir	Sapling Well	38.8	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Sapling/Pole	4	26	Balsam Fir	
Balsam Poplar		5	Sapling/Pole	4	26	Black Spruce	
Balsam Fir		10	Sapling/Pole	4	26	Density	
Black Spruce		10	Sapling/Pole	4	26	Avg. Height	
White Pine		5	Log	18	96	Size	
Red Pine		5	Log/Pole/Sap	12	96		
65	6120 - Lowland Cedar	Sawtimber Well	31.4	91	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Sapling	8		Balsam Fir	
Black Spruce		20	Pole/Log/Sap	8	91	Black Spruce	
Northern White Cedar		60	Log/Pole	10	91	Density	
Tamarack		5	Pole/Log	8		Avg. Height	
Balsam Poplar		5	Pole/Log/Sap	8		Size	
66	4134 - Aspen, Spruce/Fir	Poletimber Well	76.8	39	51-80	N/A	Permit # 57-73
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		60	Pole/Sapling	6	39	Balsam Fir	
Balsam Fir		20	Pole/Sapling	6	39	Black Spruce	
Black Spruce		20	Pole/Sapling	6	39	Density	
						Avg. Height	
						Size	
67	4319 - Mixed Upland Forest	Poletimber Well	110.3	36	51-80	N/A	Permit # 008-83
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Pole/Sapling	6	36	Cherry (spp.)	
Black Spruce		30	Pole/Sapling	5		Black Spruce	
Tamarack		5	Pole/Sapling	5		Density	
Red Pine		5	Pole/Sapling	5		Avg. Height	
Balsam Fir		10	Pole/Sapling	6		Size	
White Pine		5	Pole/Sapling	6			
68	4319 - Mixed Upland Forest	Sawtimber Well	10.1	61	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		30	Pole/Sap/Log	8	61	Balsam Fir	
Black Spruce		20	Pole/Sap/Log	8	61	Black Spruce	
Northern White Cedar		5	Log/Pole	10		Density	
Sugar Maple		10	Pole/Log/Sap	8		Avg. Height	
Quaking Aspen		25	Log/Pole	10	61	Size	
Paper Birch		10	Log/Pole	10	61		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 42120 - Planted Jack Pine Sapling Well 32.5 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	100	Sapling	1	6	Red Pine	Low	5 - 10 feet	Sapling

70 622 - Lowland Shrub Nonstocked 22.3 Unspecified No

73 6120 - Lowland Cedar Sawtimber Well 4.4 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Log/Pole/Sap	10		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sap/Log	8		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole/Log/Sap	8		Ash (spp.)	Low	< 5 feet	Sapling
Northern White Cedar	75	Log/Pole	10	91				
Black Ash	5	Pole/Log/Sap	8					