



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12044

Entry Year 2020

Acreage: 1,998

County Dickinson

Management Area: Floodwood Plains

Revision Date: 2018-08-16

Stand Examiner: Scott Sebero

Legal Description:

T44N-R30W Sections 24, 25 and 36.

T44N-R29W Sections 19, 30 and 31.

T43N-R29W Section 6.

Identified Planning Goals:

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Develop buffers on streams. Maintain and improve road system.

Soil and topography:

Soils are mostly Rubicon-Cathro association. Nearly level to rolling, somewhat excessively drained, sandy and mucky soils that formed in glacial outwash and organic deposits.

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

State lands mixed with blocks company lands and small private parcels. Lands used mainly for hunting and fishing.

Unique Natural Features:

Two Mile Creek and Weber Creek.

Archeological, Historical, and Cultural Features:

Historic logging dam in stand 44.

Special Management Designations or Considerations:

Deer wintering complex within compartment. Two Mile Creek and Weber Creek are both cold water trout streams.

Watershed and Fisheries Considerations:

The eastern region of this compartment borders Two Mile Creek which serves as a tributary to the Ford River. Two Mile Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Two Mile Creek in riparian areas susceptible to Aspen regeneration (specifically stand 1). 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 35, 400, and 403).

The southwestern region of this compartment borders Weber Creek. Weber Creek is a designated Type 1 trout stream less than 50' width. A 300' buffer is recommended for Weber Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment contains both wildlife purchased lands and deer winter range. Featured species in this Management Area (Floodwood Plains MA) include; deer, black bear, ruffed grouse, woodcock and upland sandpiper. Management for Deer winter cover, including transition zones, movement corridors and conifer component throughout the forage stands is critical in this compartment. Aspen age and stand size diversity are important management goals for deer, bear, grouse and woodcock and goshawks. The mature pine component provides both winter cover for deer, provides ideal habitat for black bears especially as refuge trees for cub rearing and is essential for bald eagle nesting and perching. The openings in the this compartment provide soft mast, primarily blueberries and foraging wildlife particularly important for black bear and provide the open landscape important for openings species such as upland sandpiper. Oak in the compartment provides mast important for most of the featured species identified for this MA.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located four miles to the southwest, but there does appear to be some sand potential within the compartment on the uplands. Part of this area was previously leased for metallic mineral exploration and some iron ore exploration has occurred just north and east of the compartment. There may still be some metallic mineral

potential beneath the compartment. There is no economic oil and gas production in the UP. The state does not own all of the mineral rights within the compartment. Private mineral rights owners must be allowed reasonable access to the land should they choose to explore and/or develop the minerals.

Vehicle Access:

Access is fairly good to most of compartment. Gate on private property in section 31 blocks access to the SW. Road needs to be pushed around SE corner of private property to gain access. access to NW portion of compartment is through private in which State has no management easement.

Survey Needs:

T43N-R29W, 5 corners in section 6.
T44N-R30W, 2 corners in section 25 and 9 corners in section 36.
T44N-R29W, 3 corners in section 31.

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

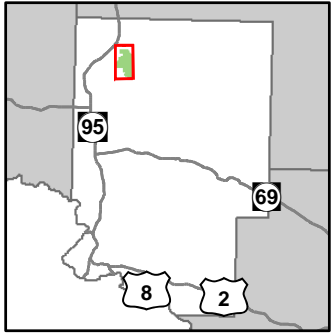
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

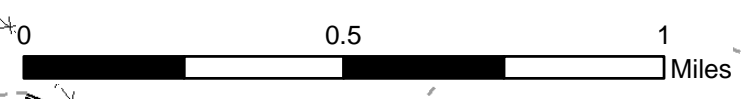
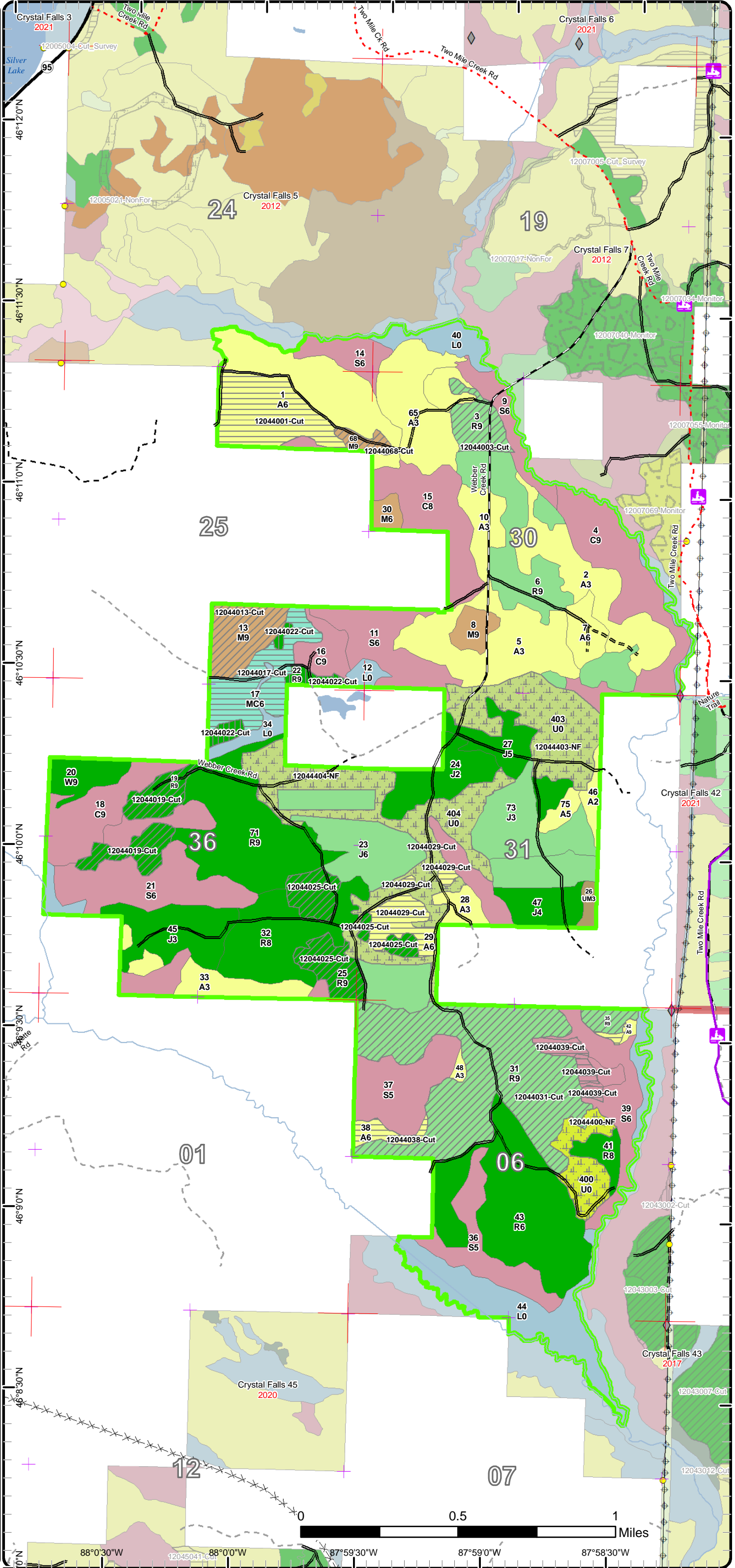
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 44
 T44N, R30W, Sec. 24, 25, 36
 T44N, R29W, Sec. 19, 29-31
 T43N, R29W, Sec. 6, 7
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Floodwood Plains
 YOE: 2020
 Acres: 1,998 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 12/17/2018
 Map Phase: Post-Review



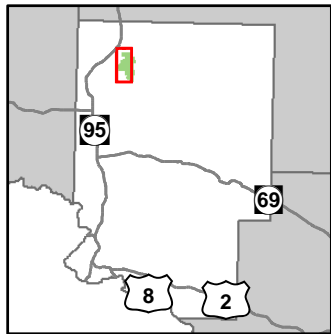
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes



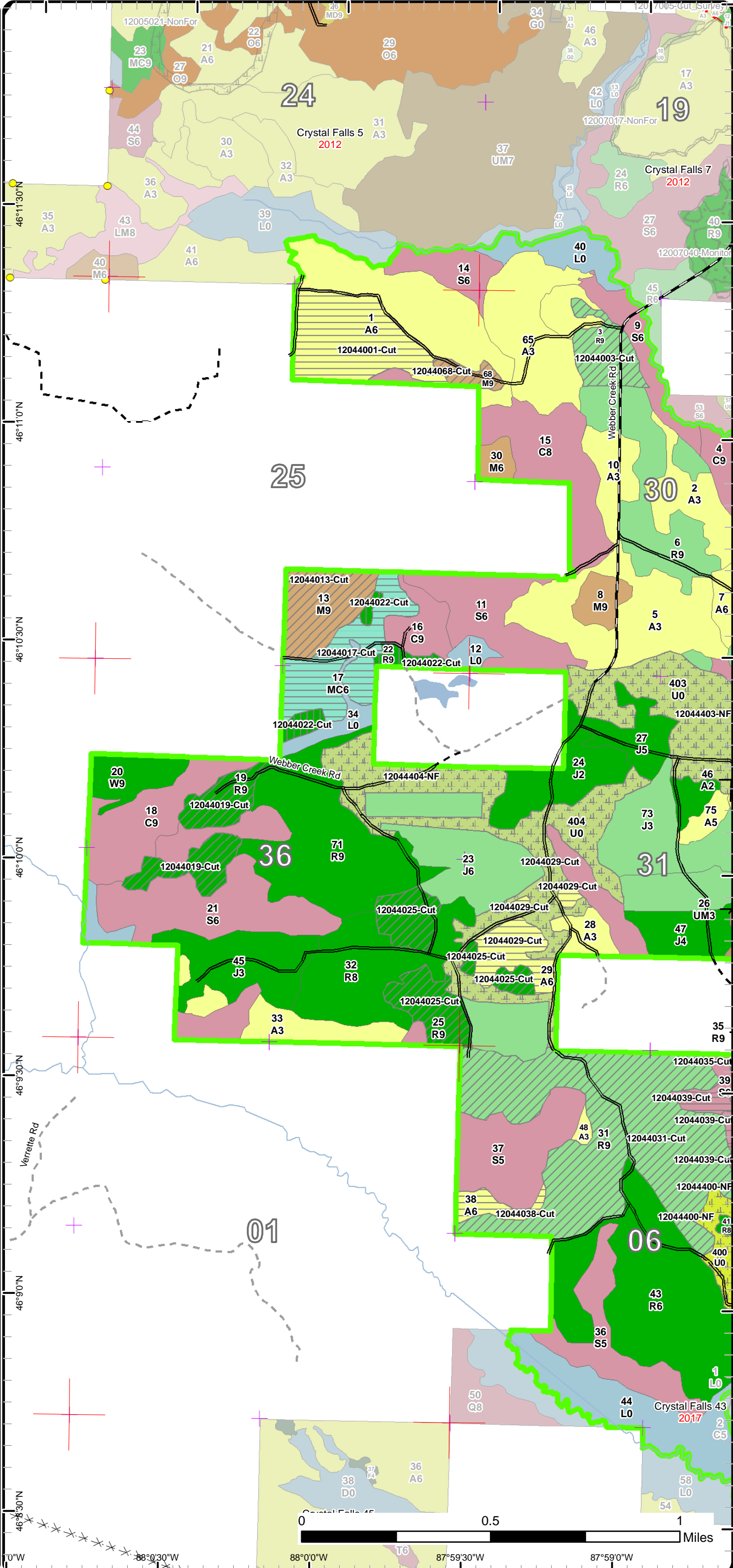
88°0'30"W 88°0'0"W 87°59'30"W 87°59'0"W 87°58'30"W
 46°12'0"N 46°11'30"N 46°11'0"N 46°10'30"N 46°10'0"N 46°9'30"N 46°9'0"N 46°8'30"N 46°8'0"N

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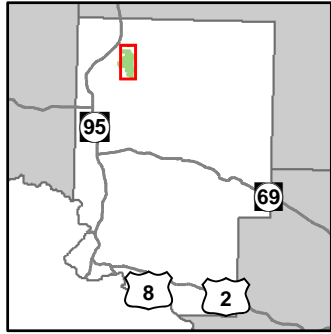


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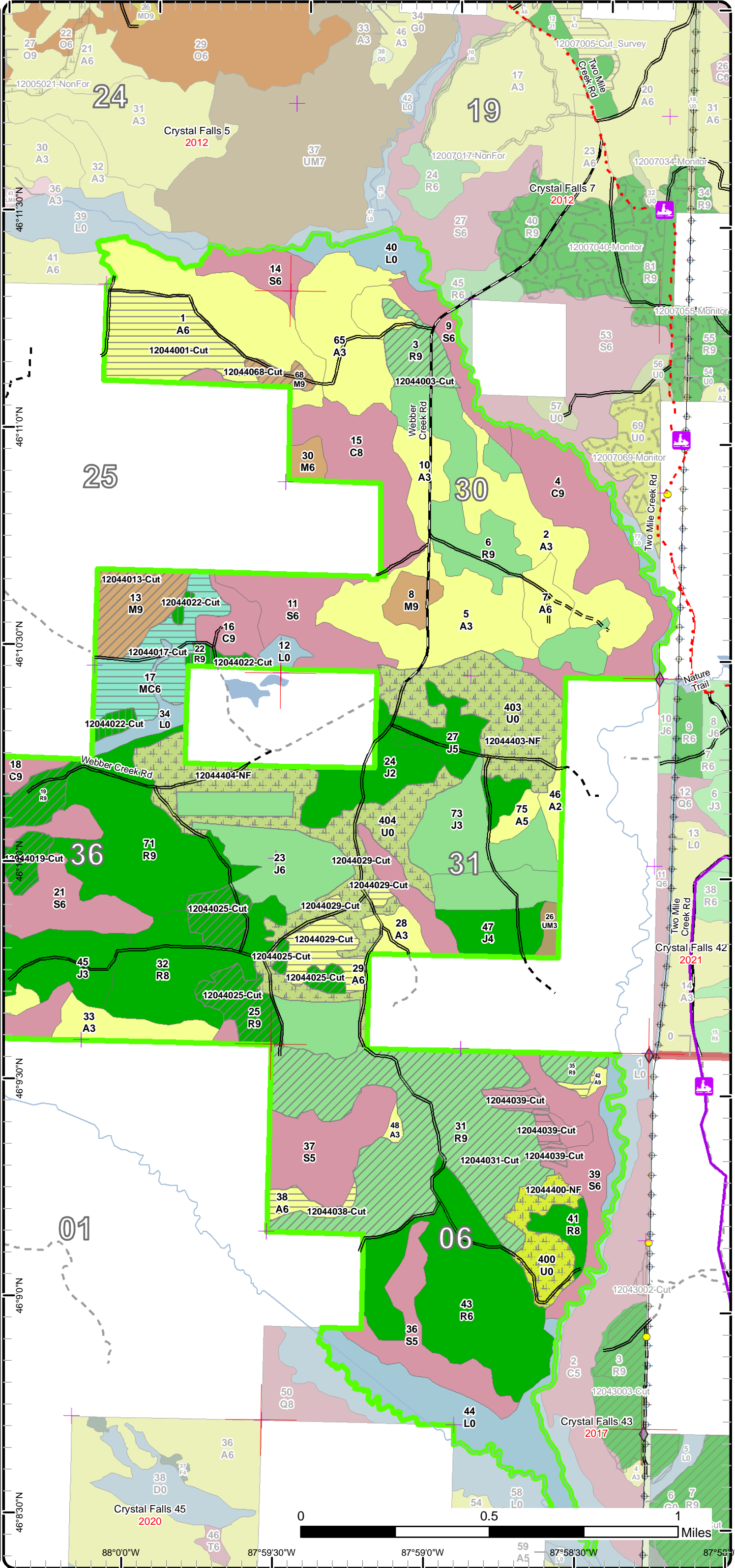


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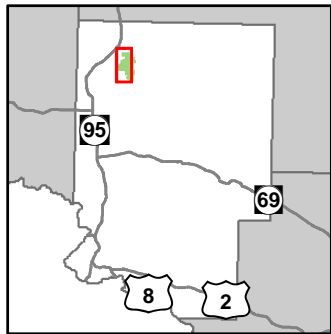


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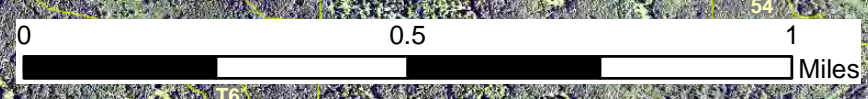
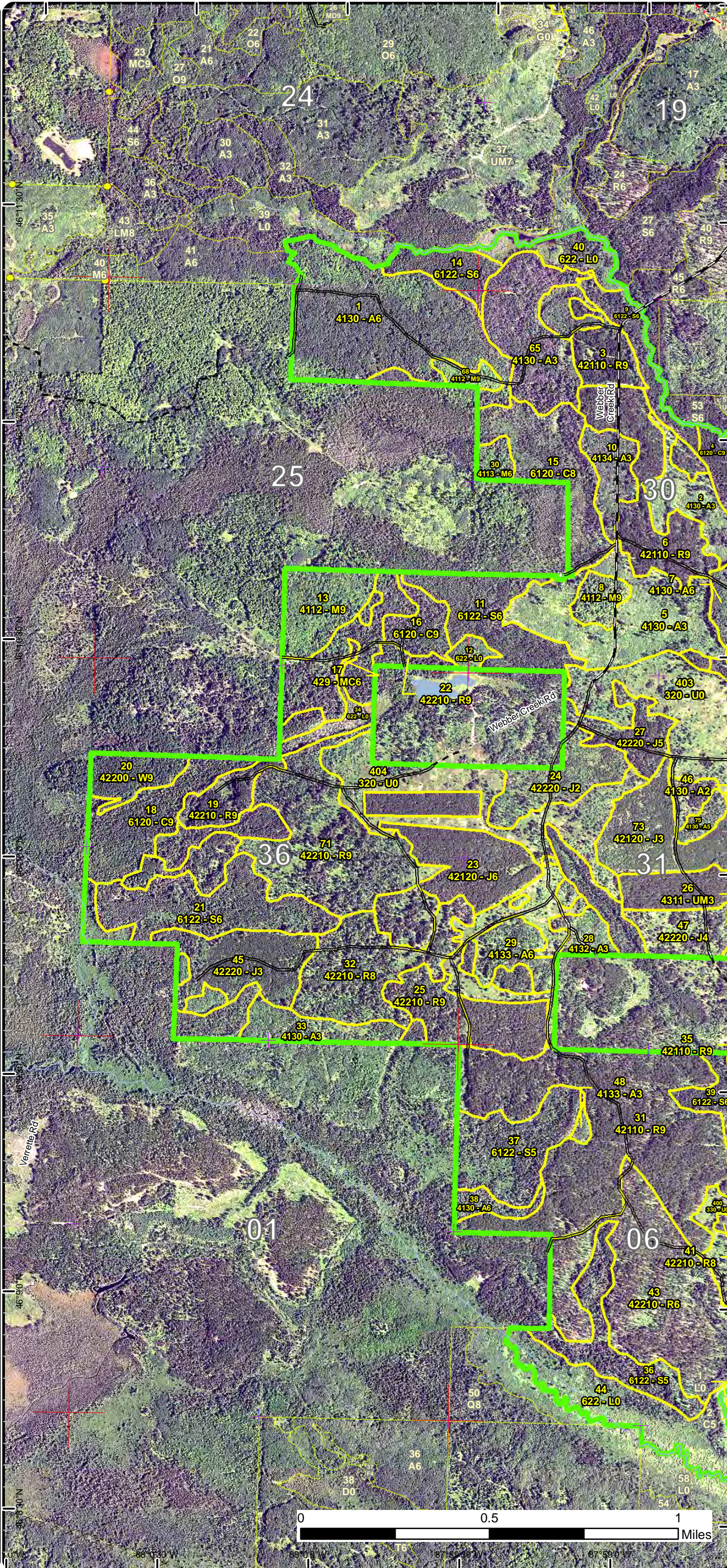


Stand Boundary Map

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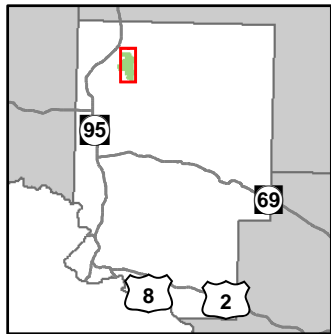


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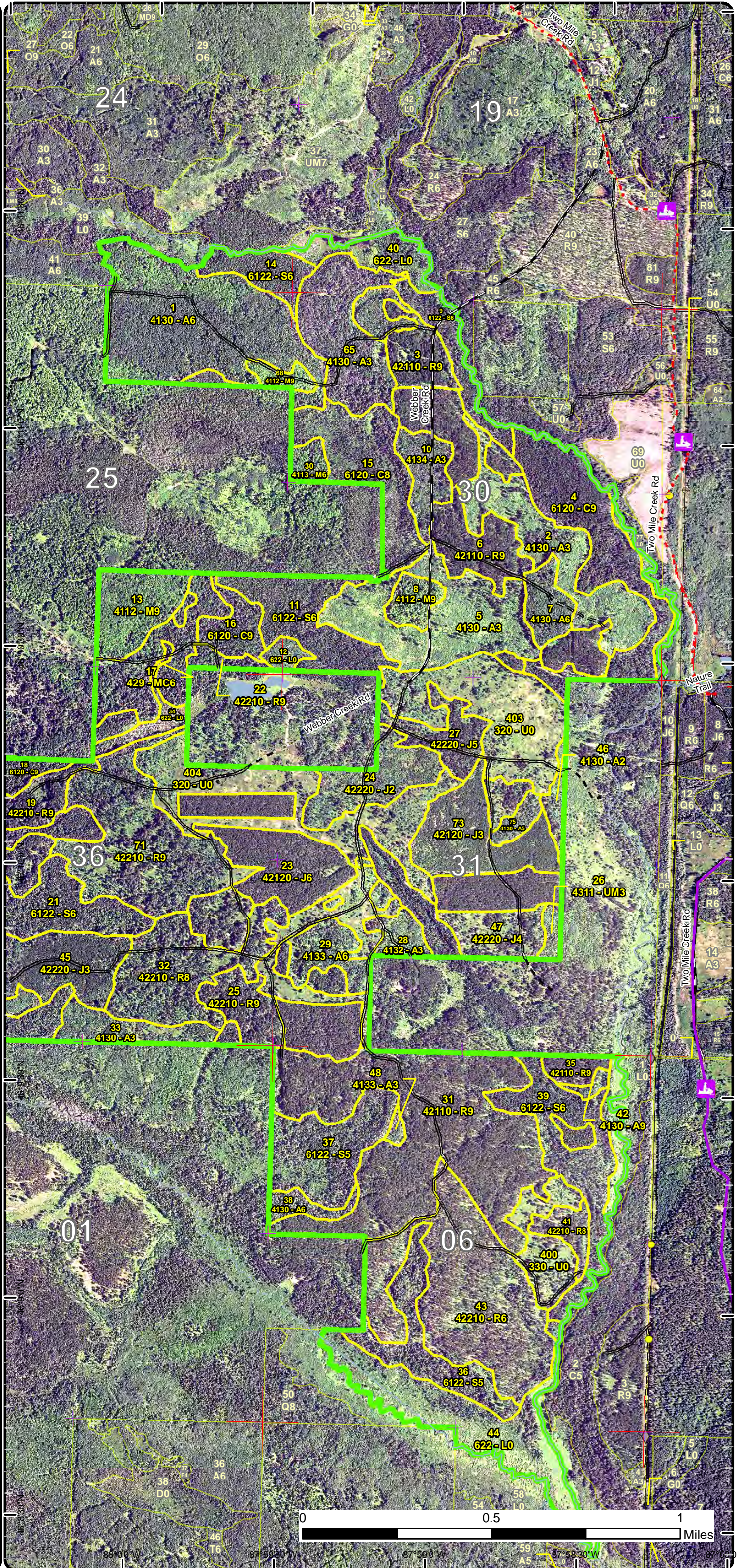


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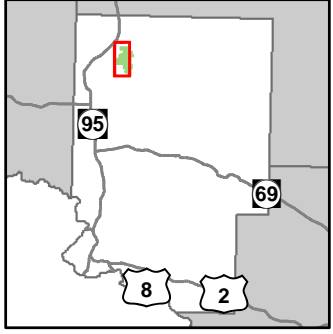


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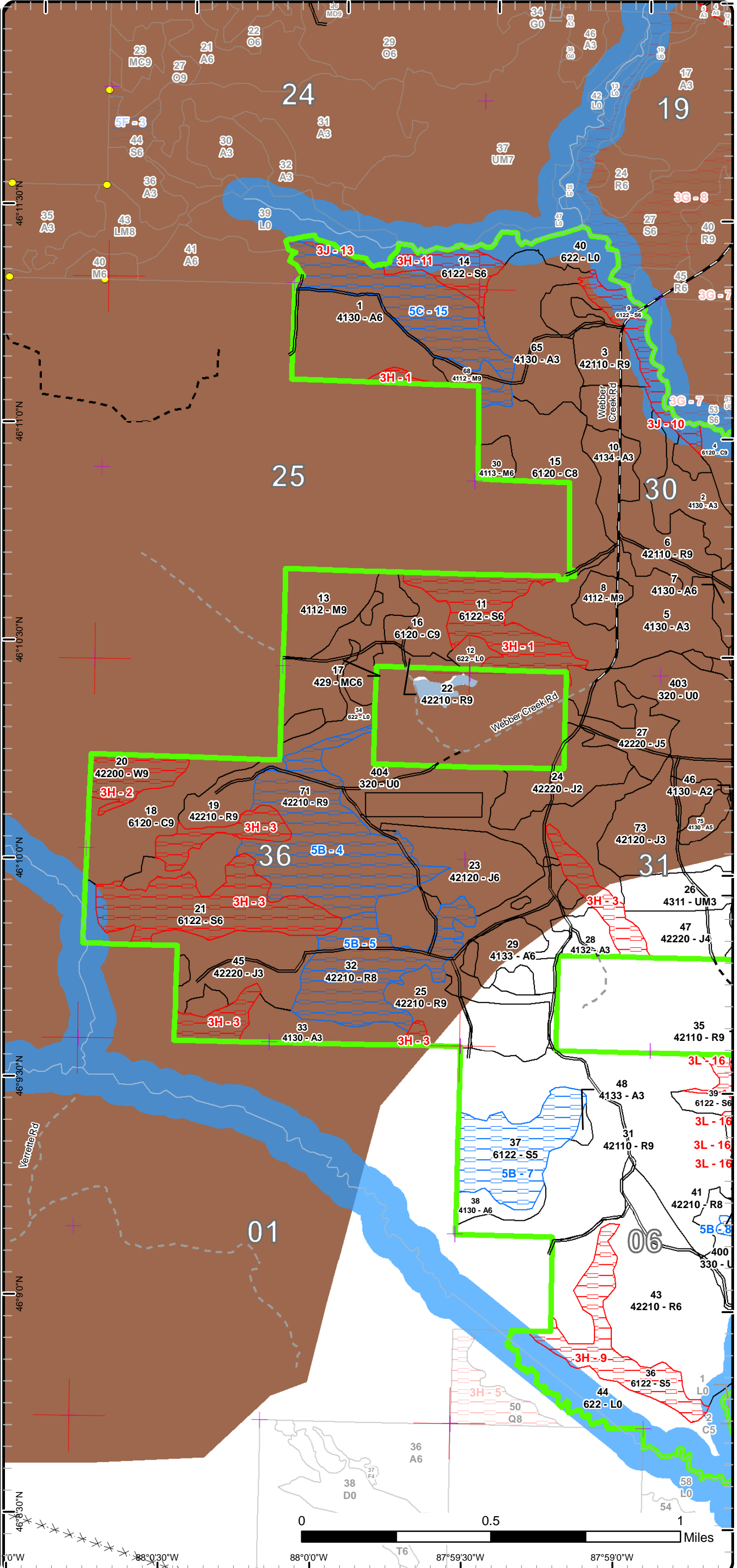


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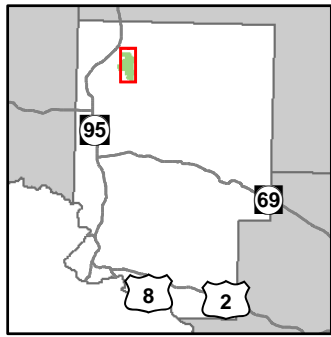


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- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

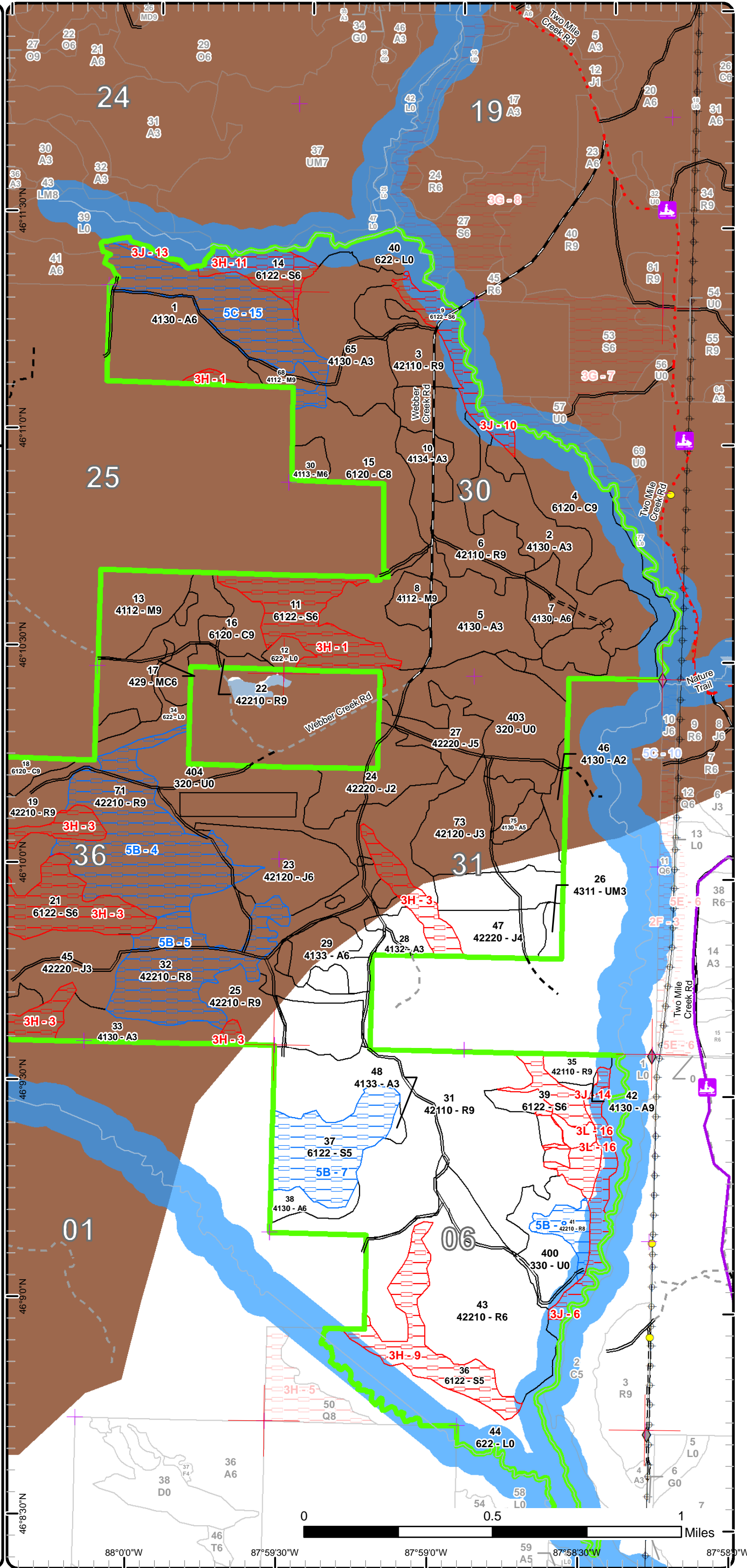


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|---------------------|------------|------------|------------|-----------|------------|-----------|------------|------------|----------|------------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen | 0 | 163 | 37 | 24 | 0 | 20 | 98 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 373 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 |
| Jack Pine | 0 | 0 | 69 | 38 | 134 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 241 |
| Low-Density Trees | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Lowland Shrub | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 286 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 335 | 0 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 552 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Upland Mixed Forest | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Upland Shrub | 151 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151 |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 284 | 163 | 111 | 62 | 134 | 20 | 104 | 402 | 0 | 722 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1999 |



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 44
Total Compartment Acres: 1,998

Commercial Harvest - 403
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 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |
| Lowland Spruce/Fir | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 33 |
| Red Pine | 0 | 0 | 0 | 0 | 11 | 239 | 0 | 0 | 0 | 250 |
| Upland Conifers | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Total | 120 | 0 | 0 | 0 | 11 | 272 | 0 | 0 | 0 | 403 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | 403 | 0 | 0 | 0 | 0 | 0 | 0 | 174 | 0 | 577 |
| Next Step | 0 | 11 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 131 |
| Total | 403 | 11 | 0 | 0 | 0 | 0 | 120 | 0 | 174 | 707 |



| 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 | 12044001-Cut | 45.2 | 4130 - Aspen | Poletimber Well | 50 | 81-110 | Harvest | Clearcut with Retention | 4134 - Aspen, Spruce/Fir | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and maple trees two inches DBH or greater. Cut all other trees four inches DBH or greater, except red and white pine, cedar, hemlock and oak.

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

Acceptable Mix of aspen, spruce and balsam.
Regen:

Other Protect transition zone.
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|---|--------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|
| 3 | 12044003-Cut | 17.8 | 42110 - Planted Red Pine | Sawtimber Well | 63 | 141-170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|---|--------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA. Cut all aspen, spruce and balsam four inches DBH or greater. Leave spruce and balsam in transition zone.

Next Step
Treatments:

Acceptable
Regen:

Other No white pine will be cut.
Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|---|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|
| 13 | 12044013-Cut | 27.3 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 88 | 141-170 | Harvest | Crown Thinning | 411 - Northern Hardwood | Even-Aged | Draft Field Boundary |
|----|--------------|------|---|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin hardwood to 80 BA. Cut all aspen, spruce and balsam that are four inches DBH or greater.

Next Step
Treatments:

Acceptable
Regen:

Other No red or white pine, cedar, hemlock or oak will be cut. Leave some large diameter trees for wildlife. Protect any vernal ponds.
Comment:

Proposed Start Date: 10/1 /2018

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|-----------------|----|--------|---------|-------------------------|-----------------------------|-----------|----------------------|
| 17 | 12044017-Cut | 35.7 | 429 - Mixed Upland Conifers | Poletimber Well | 68 | 81-110 | Harvest | Clearcut with Retention | 429 - Mixed Upland Conifers | Even-Aged | Draft Field Boundary |
|----|--------------|------|-----------------------------|-----------------|----|--------|---------|-------------------------|-----------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and maple trees two inches DBH or greater. Cut all other trees four inches DBH or greater, except red and white pine, cedar, hemlock, yellow birch, black ash and oak.

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

Acceptable Mix of aspen, spruce, balsam and pine.
Regen:

Other 100 foot buffer along stands 34 and 16.
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 |
|-----------------------|-------------------|-------|-----------------------------|-------------------|--------------|-------------|-------------------|---------------------|-----------------------------|------------------|-------------------------|
| 19 | 12044019-Cut | 29.0 | 42210 - Natural Red Pine | Sawtimber Well | 88 | 141- 170 | Harvest | Crown Thinning | 42210 - Natural Red Pine | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA. Cut all aspen and maple 4" DBH or greater. Cut all spruce, balsam, jack pine and tamarack 6" DBH or greater. Protect transition zone.

Specs:Next Step

Treatments:

AcceptableRegen:Other No white pine will be cut.Comment:Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|-------------|-------------------------------|-----------|-------------------------|
| 22 | 12044022-Cut | 10.9 | 42210 - Natural Red Pine | Sawtimber Well | 88 | 141- 170 | Harvest | Shelterwood | 42290 - Natural Mixed Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|-------------|-------------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Mark out pine for several 100 foot regeneration gaps. Choose areas of smaller diameter pine and spruce/fir for regeneration gaps. Cut all trees two inches DBH or greater in gaps. Outside of gaps, mark pine to 120 BA, favoring white pine to leave. Cut all other trees 4" DBH or larger, except cedar, hemlock or oak.

Specs:Next Step SitePrep, ScarificationTreatments:Acceptable Mix of red and white pine.Regen:Other Scarify after harvest.Comment:Proposed Start Date: 10/1 /2018

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|----------------|-----------------------------|-----------|-------------------------|
| 25 | 12044025-Cut | 38.1 | 42210 - Natural Red Pine | Sawtimber Well | 88 | 141- 170 | Harvest | Crown Thinning | 42210 - Natural Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|-----------------------------|-------------------|----|-------------|---------|----------------|-----------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA. Cut all aspen, spruce, balsam, jack pine and maple 4" DBH or greater.

Specs:Next StepTreatments:AcceptableRegen:Other Leave all white pine and oak.Comment:Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|--------------------|----|-------|---------|----------------------------|-----------------------------|-----------|-------------------------|
| 29 | 12044029-Cut | 20.6 | 4133 - Aspen, Mixed Pine | Poletimber Well | 63 | 51-80 | Harvest | Clearcut with Retention | 4133 - Aspen, Mixed Pine | Even-Aged | Draft Field Boundary |
|----|--------------|------|-----------------------------|--------------------|----|-------|---------|----------------------------|-----------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen, spruce, balsam and maple that are 2" DBH or greater. Cut all jack pine 4" DBH or greater.

Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Mix of aspen and pine.Regen:Other No red or white pine or oak will be cut. Scarify to promote pine regeneration.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 |
|-----------------------|-------------------|-------|-----------------------------|-------------------|--------------|-------------|-------------------|---------------------|----------------------------|------------------|-------------------------|
| 31 | 12044031-Cut | 147.0 | 42110 - Planted Red Pine | Sawtimber Well | 63 | 141- 170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA. Cut all aspen, spruce, balsam and jack pine 4" DBH or greater. No white pine or oak will be cut.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|----------------|----------------------------|-----------|-------------------------|
| 35 | 12044035-Cut | 7.3 | 42110 - Planted Red Pine | Sawtimber Well | 63 | 111- 140 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | Draft Field Boundary |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|----------------|----------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 100 BA. Cut all spruce, balsam, jack pine and aspen 6"DBH or greater.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Cut no white pine or oak, if present.

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|-----|--------------|--------------------|----|--------|---------|----------------------------|-----------------------------|-----------|-------------------------|
| 38 | 12044038-Cut | 7.5 | 4130 - Aspen | Poletimber Well | 63 | 81-110 | Harvest | Clearcut with Retention | 4134 - Aspen, Spruce/Fir | Even-Aged | Draft Field Boundary |
|----|--------------|-----|--------------|--------------------|----|--------|---------|----------------------------|-----------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and maple 2" DBH or greater. Cut all spruce, balsam, tamarack and jack pine 4" DBH or greater.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, spruce, balsam and pine.

Regen:

Other

No red or white pine, cedar or hemlock will be cut.

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|-----|---------------------|--------------------|----|-------|---------|----------------------------|---------------------------------------|-----------|-------------------------|
| 39 | 12044039-Cut | 9.4 | 6122 - Black Spruce | Poletimber Well | 88 | 51-80 | Harvest | Clearcut with Retention | 612 - Lowland Coniferous Forest | Even-Aged | Draft Field Boundary |
|----|--------------|-----|---------------------|--------------------|----|-------|---------|----------------------------|---------------------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen, mixed hardwood, jack pine, spruce, balsam and tamarack 4" DBH or greater. No red or white pine, cedar or hemlock will be cut.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of spruce, tamarack, balsam and aspen.

Regen:

Other

Removed areas within treatment to serve as travel corridors.

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 |
|-----------------------|----------------|-------|-----------------|----------------|-----------|----------|----------------|-------------------------|--------------------------|---------------|----------------------|
| 42 | 12044042-Cut | 1.3 | 4130 - Aspen | Sawtimber Well | 63 | 81-110 | Harvest | Clearcut with Retention | 4133 - Aspen, Mixed Pine | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Cut all aspen and maple 2" DBH or greater. Cut all jack pine, tamarack, spruce and balsam 4" DBH or greater..

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen and pine.

Regen:

Other No red or white pine, cedar or hemlock will be cut. 300 foot buffer on Two Mile Creek.

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|----|--------------|-----|---|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|
| 68 | 12044068-Cut | 5.9 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 88 | 111-140 | Harvest | Crown Thinning | 411 - Northern Hardwood | Even-Aged | Draft Field Boundary |
|----|--------------|-----|---|----------------|----|---------|---------|----------------|-------------------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Make hardwood to 80 BA. Cut all aspen, balsam and spruce 4" DBH or greater.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other No red or white pine, cedar, hemlock or oak will be cut.

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|-----|-------------|------|-------------------------|------------|--|-------------|--------------|-----------------|--------------|--|----------------------|
| 400 | 12044400-NF | 22.5 | 330 - Low-Density Trees | Nonstocked | | Unspecified | NonForestMgt | Other - Specify | 3102 - Grass | | Draft Field Boundary |
|-----|-------------|------|-------------------------|------------|--|-------------|--------------|-----------------|--------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Opening Maintenance-Mechanical or Burning

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

| | | | | | | | | | | | |
|-----|-------------|------|--------------------|------------|--|------|--------------|-----------------|--------------|--|----------------------|
| 403 | 12044403-NF | 60.1 | 320 - Upland Shrub | Nonstocked | | 1-50 | NonForestMgt | Other - Specify | 3102 - Grass | | Draft Field Boundary |
|-----|-------------|------|--------------------|------------|--|------|--------------|-----------------|--------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Mechanical opening maintenance

Specs:

Next Step

Treatments:

Acceptable

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 |
|-----------------------|-------------------|-------|--------------------|-----------------|--------------|-------------|-------------------|---------------------|-------------------------|------------------|-------------------------|
| 404 | 12044404-NF | 91.2 | 320 - Upland Shrub | Nonstocked | | 1-50 | NonForestMgt | Other - Specify | 3102 - Grass | | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Mechanical/burn Opening Maintenance
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 576.8**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Scott Sebero : Examiner

Compartment: 44
Year of Entry: 2020

Availability for Management

| Total Acres | Acres Available | Acres Available With Condition | Acres Not Available |
|-------------|-----------------|--------------------------------|---------------------|
|-------------|-----------------|--------------------------------|---------------------|

Dominant Site Conditions

| | Total Acres | Acres Available | Acres Available With Condition | Acres Not Available | Dominant Site Conditions | | | | |
|-------|-------------|-----------------|--------------------------------|----------------------|--------------------------|----|-----|-----|----|
| | | | | | 5B | 5C | 3H | 3J | 3L |
| 372 | 318 | 50 | 4 | Aspen | | 50 | | 4 | |
| 158 | 95 | 0 | 63 | Cedar | | | | 63 | |
| 240 | 240 | 0 | 0 | Jack Pine | | | | | |
| 23 | 23 | 0 | 0 | Low-Density Trees | | | | | |
| 110 | 110 | 0 | 0 | Lowland Shrub | | | | | |
| 286 | 9 | 40 | 236 | Lowland Spruce/Fir | 40 | | 183 | 35 | 18 |
| 49 | 49 | 0 | 0 | Northern Hardwood | | | | | |
| 552 | 413 | 140 | 0 | Red Pine | 140 | | | | |
| 36 | 36 | 0 | 0 | Upland Conifers | | | | | |
| 4 | 4 | 0 | 0 | Upland Mixed Forest | | | | | |
| 151 | 151 | 0 | 0 | Upland Shrub | | | | | |
| 17 | 0 | 0 | 17 | White Pine | | | 17 | | |
| 1,998 | 1,448 | 230 | 319 | Total Forested Acres | 180 | 50 | 200 | 102 | 18 |
| | 72% | 12% | 16% | Relative Percent | | | | | |

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

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|------------------|---------------------------------|---|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 41 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 44
 Year of Entry: 2020

| | | | | | | | |
|--|--------------------|--|----|-------------------------|-------------|-------------|-------------|
| 3 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 94 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Available | 5B: Maintain for regeneration purposes | 78 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Available | 5B: Maintain for regeneration purposes | 52 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 17 | 5E: Long-Term Retention | Unspecified | Unspecified | Unspecified |
| Comments: 300 foot buffer cold water stream. | | | | | | | |
| 7 | Available | 5B: Maintain for regeneration purposes | 41 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Available | 5B: Maintain for regeneration purposes | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 44
 Year of Entry: 2020

| | | | | | | | |
|---|--------------------|---|----|-----------------------------|-----------------------------|-------------|-------------|
| 9 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 33 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 18 | 3L: Other wildlife concerns | 5E: Long-Term Retention | Unspecified | Unspecified |
| Comments: 300 foot buffer on Two Mile Creek. | | | | | | | |
| 11 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 13 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 3 | 5E: Long-Term Retention | Unspecified | Unspecified | Unspecified |
| Comments: Portion of stand within 300 foot stream buffer. | | | | | | | |
| 14 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 1 | 5E: Long-Term Retention | 3L: Other wildlife concerns | Unspecified | Unspecified |
| Comments: Portion of stand within the 300 foot stream buffer. | | | | | | | |
| 15 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 50 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 44

Year of Entry: 2020

| | | | | | | | |
|--|-------------|-----------------------------|----|-------------|-------------|-------------|-------------|
| 16 | Unavailable | 3L: Other wildlife concerns | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Retained for wildlife travel corridor. | | | | | | | |

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|-----------------|--------------|-------------|----------------|-------|
| Comments | | | | |



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

| Conservation Area | Type | Description |
|-------------------|-------------------|---|
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies. |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|---|------------------|-------|-----------|----------|--|
| 1 | 4130 - Aspen | Poletimber Well | 97.9 | 50 | 81-110 | OPIC - FMD: OI Stand Year Origin was 1968 |
| 2 | 4130 - Aspen | Sapling Well | 49.2 | 6 | Immature | Harvested 2012 with "Weber Creek" sale #12-059-10-01. |
| 3 | 42110 - Planted Red Pine | Sawtimber Well | 17.8 | 63 | 141-170 | Thinned 2012, Weber Creek. |
| 4 | 6120 - Lowland Cedar | Sawtimber Well | 62.7 | 88 | 81-110 | |
| 5 | 4130 - Aspen | Sapling Well | 62.0 | 6 | Immature | Harvested 2012 with "Weber Creek" sale #12-059-10-01. |
| 6 | 42110 - Planted Red Pine | Sawtimber Well | 62.3 | 63 | 111-140 | Thinned in 2012 with "Weber Creek" sale #12-059-10-01. |
| 7 | 4130 - Aspen | Poletimber Well | 13.5 | 44 | 51-80 | |
| 8 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 10.1 | 88 | 81-110 | Thinned in 2012 with "Weber Creek" sale #12-059-10-01. |
| 9 | 6122 - Black Spruce | Poletimber Well | 18.0 | 88 | 81-110 | |
| 10 | 4134 - Aspen, Spruce/Fir | Sapling Well | 25.9 | 16 | Immature | |
| 11 | 6122 - Black Spruce | Poletimber Well | 40.7 | 88 | 51-80 | |
| 13 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 27.3 | 88 | 141-170 | |
| 14 | 6122 - Black Spruce | Poletimber Well | 16.2 | 88 | 51-80 | |
| 15 | 6120 - Lowland Cedar | Sawtimber Medium | 43.8 | 88 | 51-80 | |
| 16 | 6120 - Lowland Cedar | Sawtimber Well | 14.5 | 88 | 51-80 | |
| 17 | 429 - Mixed Upland Conifers | Poletimber Well | 35.7 | 68 | 81-110 | |
| 18 | 6120 - Lowland Cedar | Sawtimber Well | 36.5 | 88 | 111-140 | |
| 19 | 42210 - Natural Red Pine | Sawtimber Well | 29.0 | 88 | 141-170 | |
| 20 | 42200 - Natural White Pine | Sawtimber Well | 16.6 | 88 | 171-200 | |



| Stand | Crystal Falls Mgt. Unit | | Report 7 – Forested Stands | | | Compartment: 44 Year of Entry: 2020 | |
|-------|------------------------------|----------------------|----------------------------|--------------|-------------|--|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: | |
| 21 | 6122 - Black Spruce | Poletimber Well | 93.6 | 88 | 81-110 | | |
| 22 | 42210 - Natural Red Pine | Sawtimber Well | 10.9 | 88 | 141-170 | | |
| 23 | 42120 - Planted Jack Pine | Poletimber Well | 87.6 | 34 | 51-80 | | |
| 24 | 42220 - Natural Jack Pine | Sapling Medium | 28.8 | 17 | Immature | | |
| 25 | 42210 - Natural Red Pine | Sawtimber Well | 38.1 | 88 | 141-170 | | |
| 26 | 4311 - Pine, Aspen Mix | Sapling Well | 4.5 | 17 | Immature | | |
| 27 | 42220 - Natural Jack Pine | Poletimber Medium | 26.2 | 35 | 51-80 | | |
| 28 | 4132 - Aspen, Jack Pine | Sapling Well | 9.5 | 17 | Immature | | |
| 29 | 4133 - Aspen, Mixed Pine | Poletimber Well | 20.6 | 63 | 51-80 | Very poor quality aspen. Some younger clones mixed in. | |
| 30 | 4113 - R.Maple, Conifer | Poletimber Well | 6.1 | 50 | 81-110 | | |
| 31 | 42110 - Planted Red Pine | Sawtimber Well | 147.0 | 63 | 141-170 | Thinned in 2002. Weber Pine. | |
| 32 | 42210 - Natural Red Pine | Sawtimber Medium | 51.9 | 88 | 51-80 | Red pine log stand with thick red and white pine regen 10 to 20 feet high. | |
| 33 | 4130 - Aspen | Sapling Well | 23.6 | 26 | Immature | | |
| 35 | 42110 - Planted Red Pine | Sawtimber Well | 7.3 | 63 | 111-140 | | |
| 36 | 6122 - Black Spruce | Poletimber Medium | 32.8 | 88 | 51-80 | | |
| 37 | 6122 - Black Spruce | Poletimber Medium | 40.5 | 88 | 51-80 | | |
| 38 | 4130 - Aspen | Poletimber Well | 7.5 | 63 | 81-110 | | |
| 39 | 6122 - Black Spruce | Poletimber Well | 44.1 | 88 | 51-80 | | |
| 41 | 42210 - Natural Red Pine | Sawtimber Medium | 9.6 | 88 | 81-110 | | |



| Stand | Crystal Falls Mgt. Unit | | Report 7 – Forested Stands | | | Compartment: 44 Year of Entry: 2020 | |
|-------|--|----------------------|----------------------------|--------------|-------------|--|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: | |
| 42 | 4130 - Aspen | Sawtimber Well | 2.7 | 63 | 81-110 | | |
| 43 | 42210 - Natural Red Pine | Poletimber Well | 100.1 | 63 | 111-140 | Thinned 2013- Retained white pine. | |
| 45 | 42220 - Natural Jack Pine | Sapling Well | 37.8 | 26 | Immature | | |
| 46 | 4130 - Aspen | Sapling Medium | 6.7 | 6 | Immature | | |
| 47 | 42220 - Natural Jack Pine | Poletimber Poor | 19.6 | 35 | 1-50 | Old grass opening, now grown into scattered jack pine and aspen. | |
| 48 | 4133 - Aspen, Mixed Pine | Sapling Well | 2.0 | 16 | Immature | | |
| 65 | 4130 - Aspen | Sapling Well | 45.2 | 2 | Immature | Eye Patch SBW TS cut summer/fall 2017 | |
| 68 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 5.9 | 88 | 111-140 | | |
| 71 | 42210 - Natural Red Pine | Sawtimber Well | 78.3 | 88 | 81-110 | Aspen removed in 2002. | |
| 73 | 42120 - Planted Jack Pine | Sapling Well | 40.1 | 17 | Immature | | |
| 75 | 4130 - Aspen | Poletimber Medium | 6.0 | 43 | 51-80 | Very poor quality aspen. | |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------|-------|--------------|---|
| 12 | 622 - Lowland Shrub | 4.8 | No | |
| 34 | 622 - Lowland Shrub | 15.1 | No | OPIC - FMD: OI Stand Year Origin was |
| 40 | 622 - Lowland Shrub | 17.1 | No | |
| 44 | 622 - Lowland Shrub | 72.7 | No | Two Mile Creek and Weber Creek contained within stand. |
| 400 | 330 - Low-Density Trees | 22.5 | No | Old grass opening with scattered red pine and aspen. Growing in with saplings and cherry brush. |
| 403 | 320 - Upland Shrub | 60.1 | No | OPIC - FMD: Scattered aspen, small cherry and jack pine. |
| 404 | 320 - Upland Shrub | 91.2 | No | Growing in with cherry brush, aspen and jack pine saps and poles. |