



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12074

Entry Year 2023

Acreage: 2,515

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T41N R30W Section 8, 9 & 10

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. Maintain and improve road system.

Soil and topography:

Soil and Topography: Soils in this compartment range from mucks to fine sandy loam, some of the latter being poorly drained; topography is level in the swamps but mostly rolling and even a few steep hills.

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

Ownership Patterns, Development, and Land Use in and Around the Compartment: State-owned land and private ownership, used by loggers, hunters, fisherman and general recreationists. Land around the compartment is mostly privately owned, including some timber company land.

Unique Natural Features:

Badwater Creek. Rocky outcrops

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Deeryard

Watershed and Fisheries Considerations:

Badwater Creek. This compartment contains Badwater Creek which is designated a Type 1 trout stream less than 50' in width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. An unnamed waterbody is partly in the northern portion of the compartment and should have a 100ft buffer.

Wildlife Habitat Considerations:

This compartment is in the Ralph Ground Moraine Management Area which has the following featured species: American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. This compartment is now considered conditional winter range for deer, so management of uplands adjacent to critical winter cover is essential. Lowland conifers are managed as deer critical winter covers. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for a many species of wildlife and are essential bear spring and summer habitat. These covertypes also provide critical habitat for riparian species, as well as, movement corridors. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial till over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Archean Granite/Gneiss, Chocolay Group and Michigamme Formation outcrops beneath the glacial drift. There is not a current economic use for these rocks, but the granite/gneiss has building/dimension stone potential. A crushed marble quarry is located two miles to the north. The Groveland iron mine is located approximately six miles to the east. This compartment was previously leased for metallic exploration and there may still potential. A gravel pit is located two miles to the north and there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road 607 on east side, Peavy Falls Road to the south, trails through the compartment

Survey Needs:**Recreational Facilities and Opportunities:**

Hunting, dispersed camping, fishing, trapping and hiking.

Fire Protection:

Norway & Felch protection area. There is minimal access to most upland stands; standard fire equipment may have difficulty utilizing existing trails.

Additional Compartment Information:**The following reports from the Inventory are attached:**

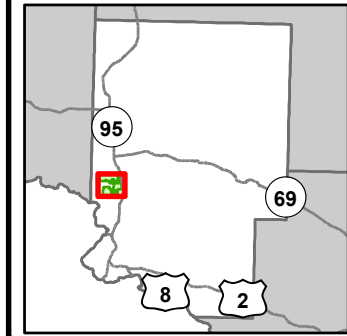
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

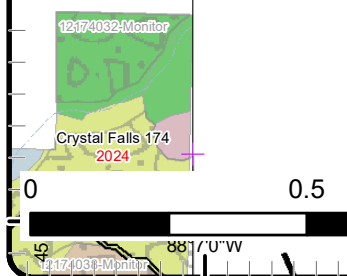
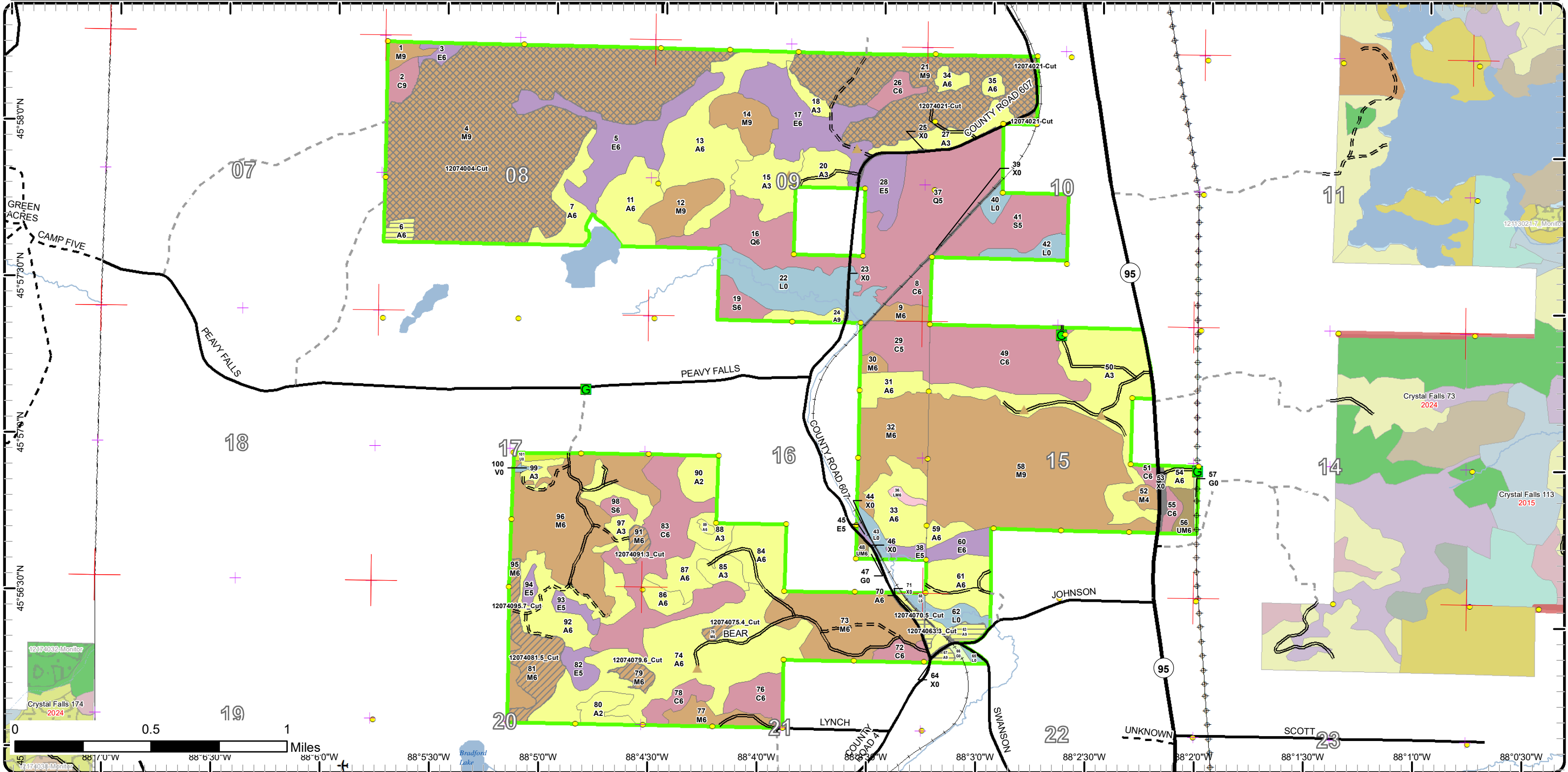
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 74
 T41N, R30W, Sec. 8-10, 15-17,
 20-22
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 2515.4 GIS Calculated
 Examiner: Tyler Ritchie
 Map Revised: 12/28/2021
 Map Phase: Post-Review

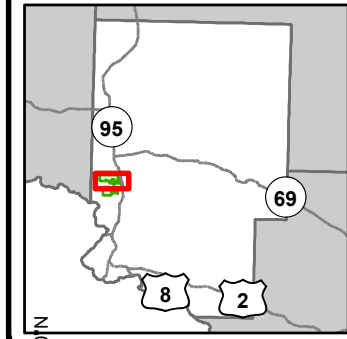


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - Private - Dirt / Gravel Road
- Active Railroads
- ✈ Airport
- ▲ Berms
- Ⓜ Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

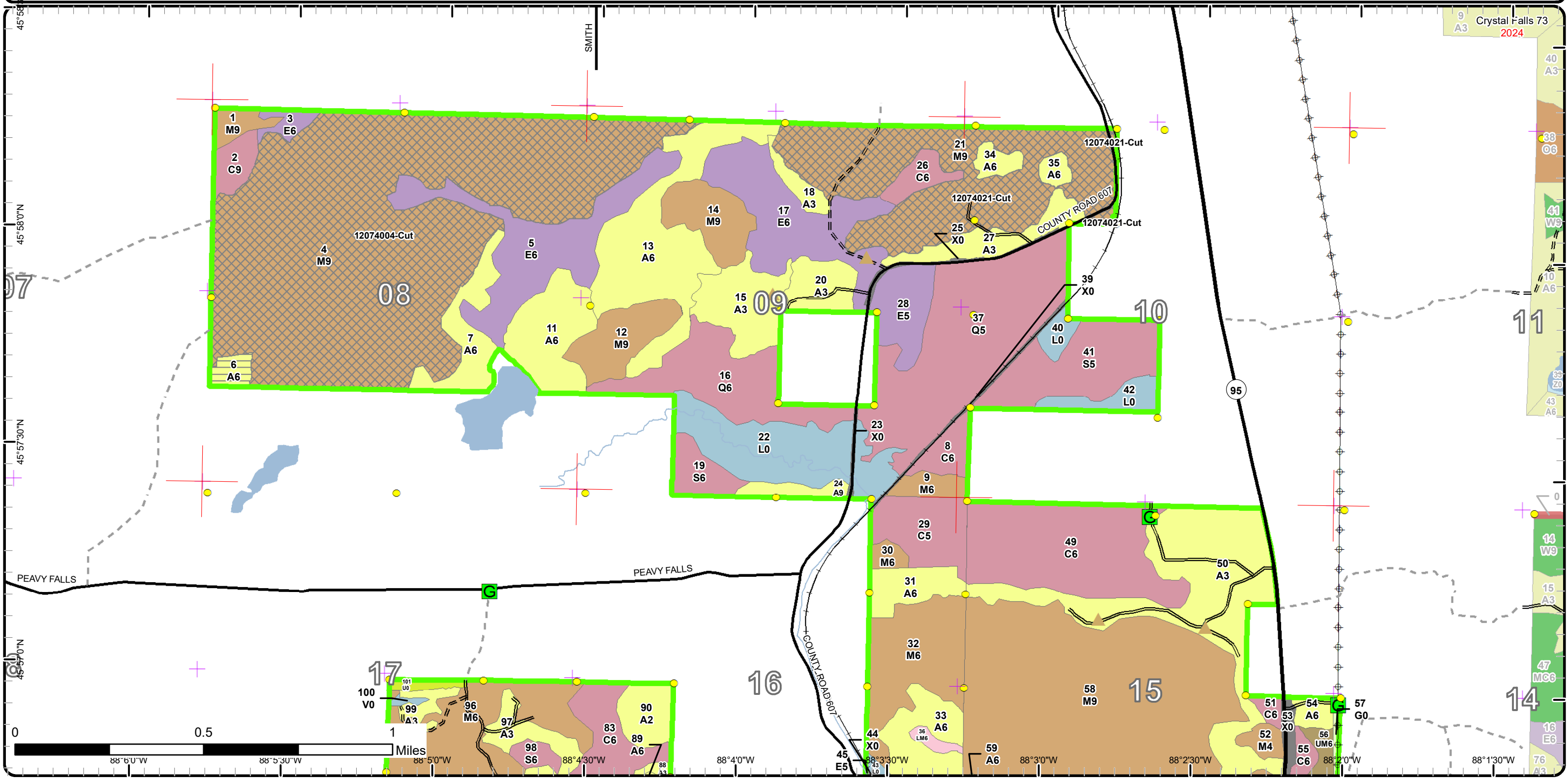


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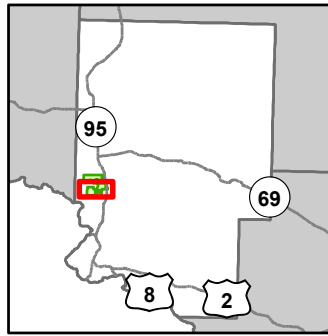
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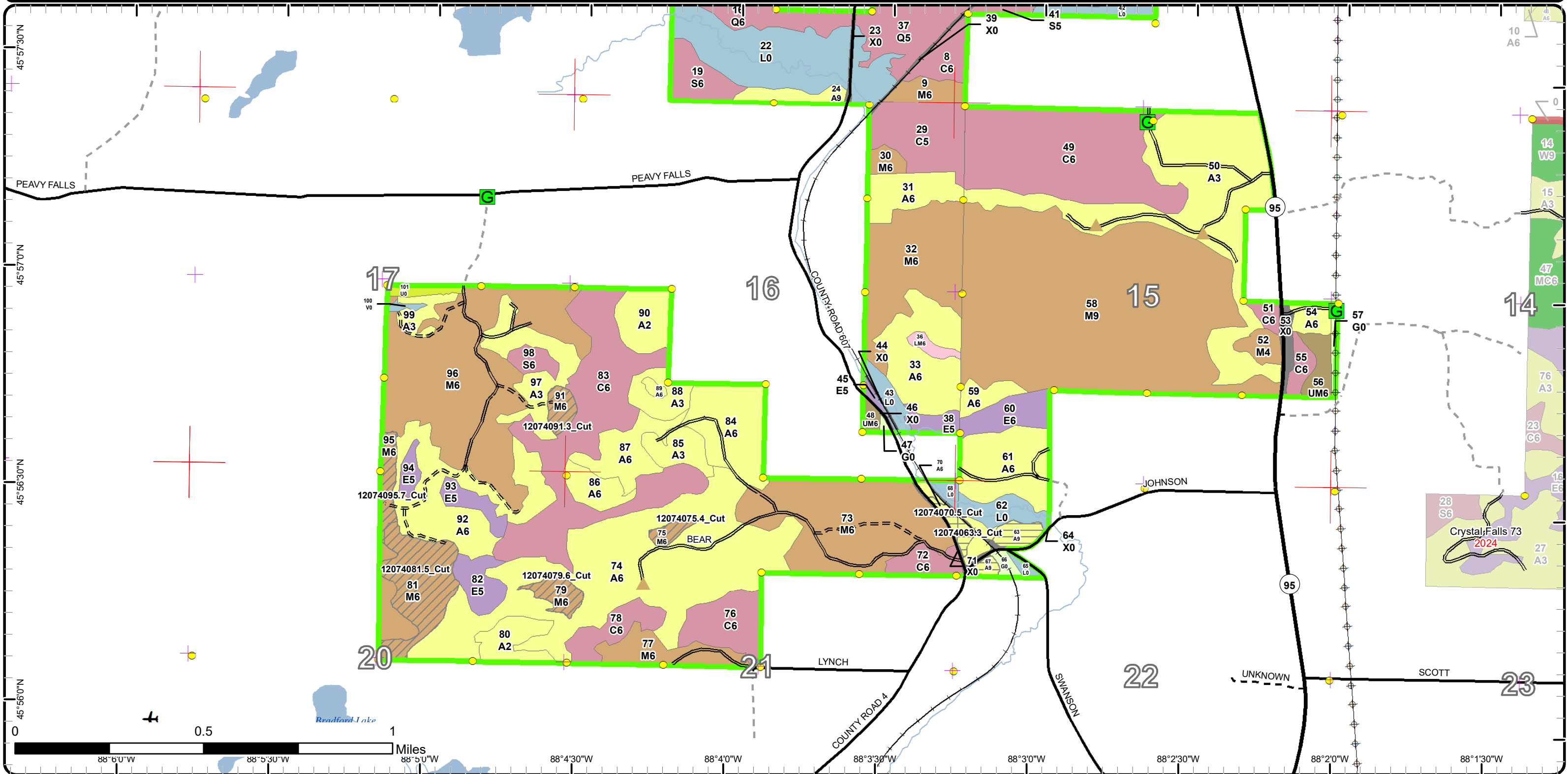
Crystal Falls 73
2024

Cover Type & Treatments Map

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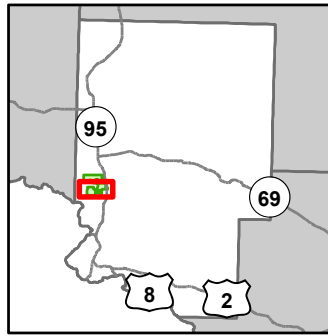


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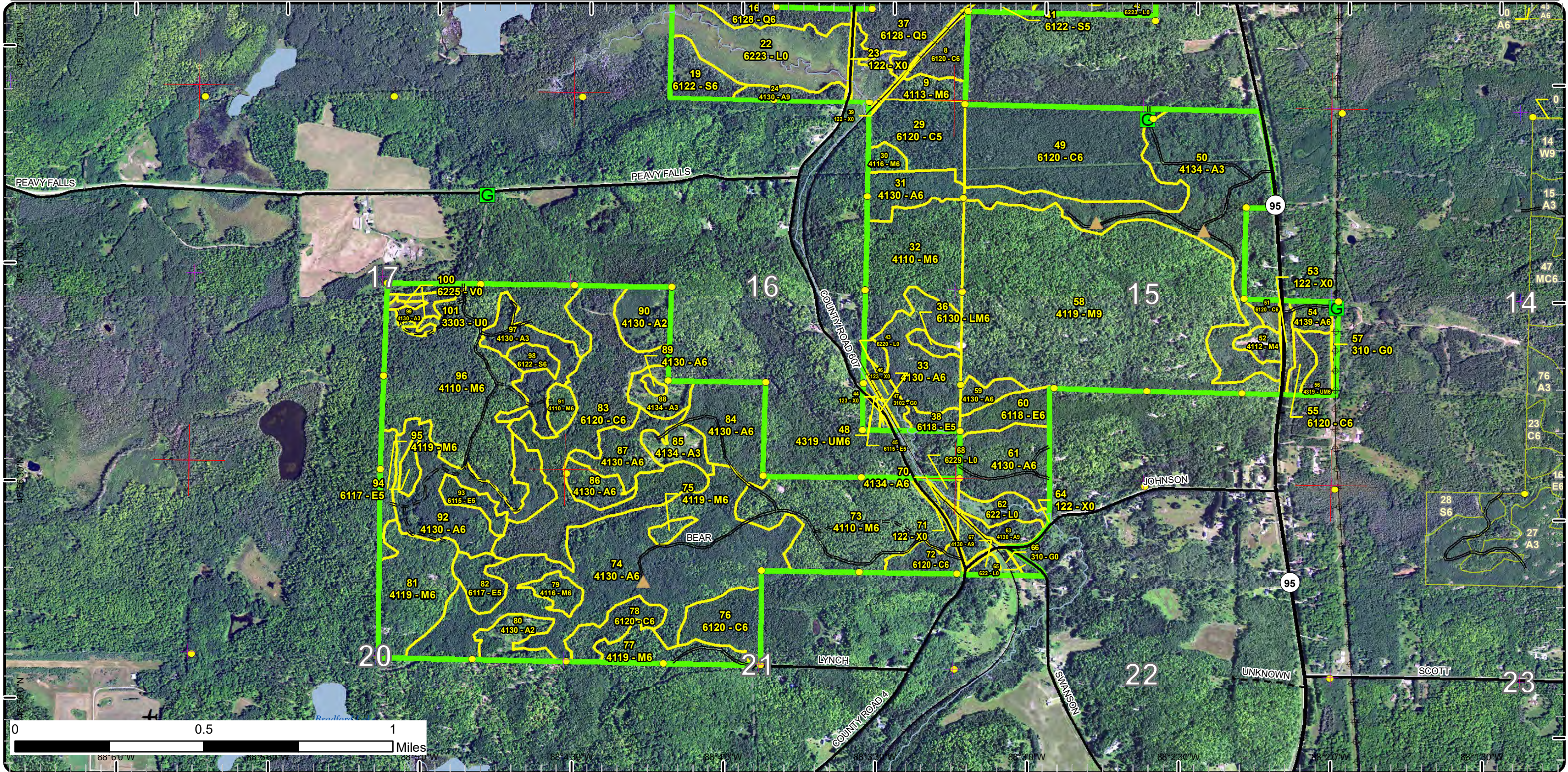


Stand Boundary Map

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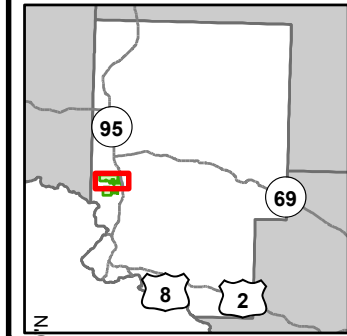


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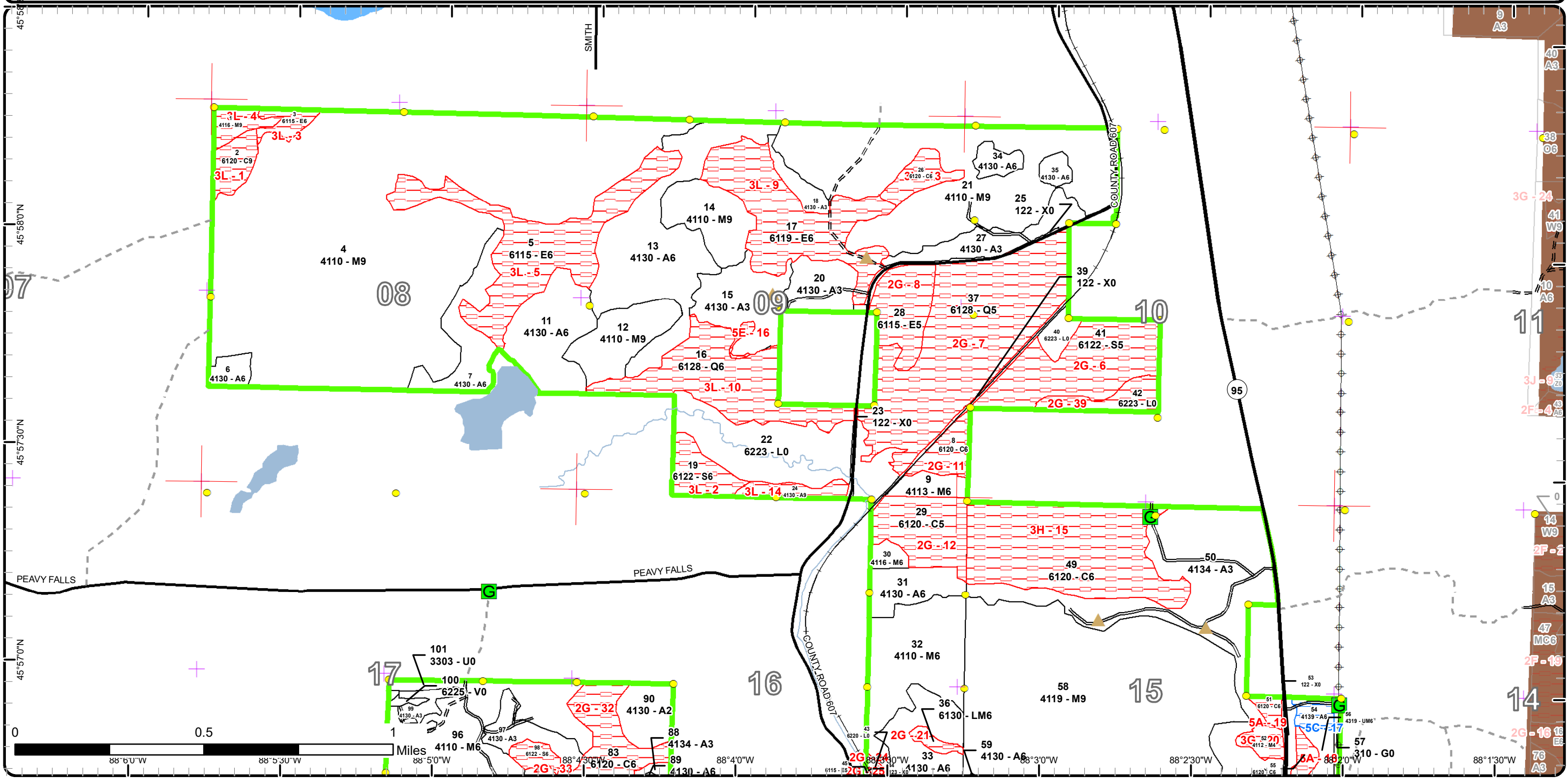


Special Conservation Areas

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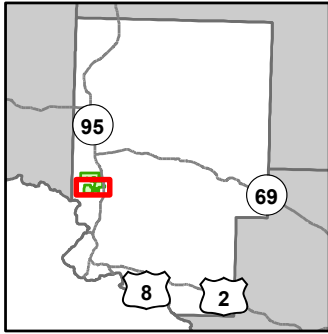


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 - Compartment Boundary
 - Available w/ Constraints
 - Stand Boundaries
 - Cold Water Streams
 - Cold Water Lakes
 - Wildlife Management Areas
- 5C: Delay treatment for age/size class diversity or exceptional site quality
 Unavailable
 2G: Too wet (sensitive soils, does not include access issues)
 3G: Other Influence zones - See comments
 3L: Other wildlife concerns
 5A: Not able to obtain desirable regeneration
 5E: Long-Term Retention

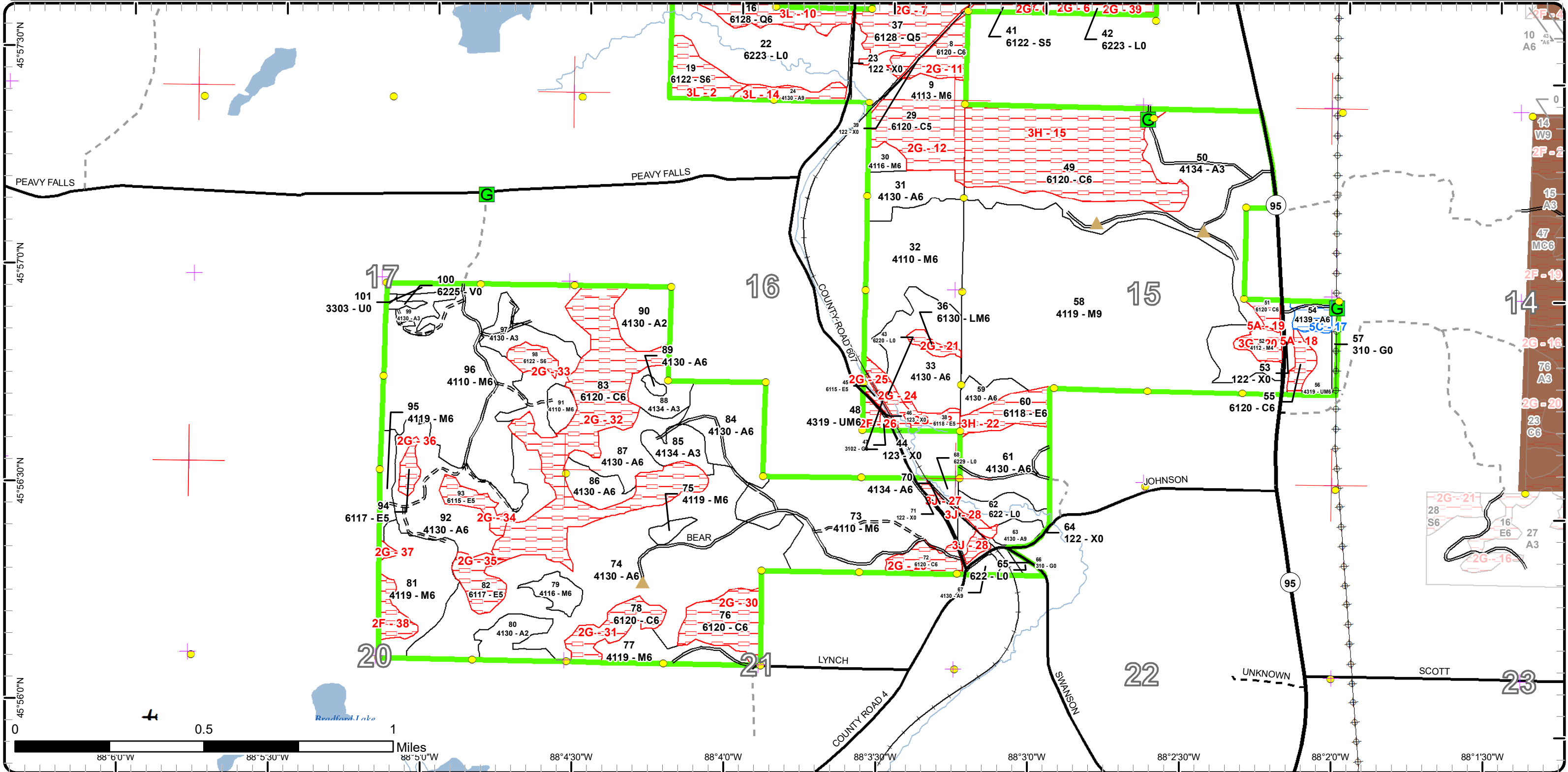


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Cold Water Streams
- Wildlife Management Areas
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments



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	92	93	22	95	378	0	5	0	7	15	0	0	0	0	0	0	0	706
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	16	155	9	78	0	0	0	0	0	257
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	49	102	0	0	0	0	0	0	151
Lowland Deciduous	0	0	0	0	0	0	0	0	0	33	144	0	0	0	0	0	0	0	177
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Lowland Shrub	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	13	5	45	0	0	0	0	0	0	63
Northern Hardwood	0	0	0	0	0	0	0	0	0	5	548	5	0	0	0	0	0	474	1032
Upland Mixed Forest	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	118	92	93	29	95	378	0	5	0	74	919	161	78	0	0	0	0	476	2515



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Compartment 74
Total Compartment Acres: 2,515

Acres of Harvest

Commercial Harvest - 540
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	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	476	0	0	0	49	0	0	0	525
Total	15	476	0	0	0	49	0	0	0	540

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	540	0	0	0	0	0	0	0	0	540
Next Step	0	0	0	0	0	0	540	0	0	540
Total	540	0	0	0	0	0	540	0	0	1080



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	12074004-Cut	354.5	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Mark in order of removal, ash logs, multi-stem basswood and poor quality maple. Create regeneration gaps to promote sugar maple regen.</p> <p><u>Specs:</u> 80-90 BA target. Leave all conifer species for wildlife</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple and a mix of other species present</p> <p><u>Other Comment:</u> Some areas of low BA with heavy regeneration may not need to be marked. Vernal ponds and wet areas throughout. Protect vernal ponds with exclusions, and sale specs. Large wet ash area along northern boundary will need to be excluded. Access will be through company land to the west.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
6	12074006-Cut	5.5	4130 - Aspen	Poletimber Well	48	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 2 inch spec. Removal all hardwood.</p> <p><u>Specs:</u> Grouse habitat spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
21	12074021-Cut	121.4	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Select Cut the stand down to 80-90BA. Target ash and basswood log trees for removal first. Crop tree release sugar maple.</p> <p><u>Specs:</u> Leave all conifer and birch for wildlife.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Northern hardwood mixed species.</p> <p><u>Other Comment:</u> Steep terrain and wet seeps. Protect with specs and marking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
63 12074063.3_C ut	6.2	4130 - Aspen	Sawtimber Well	99		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees with one or more pulpwood sticks. Do not cut red pine, white pine, cedar, hemlock and oak. Buffer Creeks 100 feet.										
<u>Specs:</u>										
<u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Mix of aspen, spruce, balsam and hardwood.										
<u>Regen:</u>										
<u>Other</u> Treat with stand 24 of compartment 75. Buffer creek to the north and creek that runs through stand 52.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
67 12074067.4_C ut	2.1	4130 - Aspen	Sawtimber Well	99	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees with one or more pulpwood sticks. Do not cut red and white pine, cedar, hemlock or oak.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Mix of aspen, spruce, balsam and hardwood.										
<u>Regen:</u>										
<u>Other</u> Treat with stand 24 of compartment 75										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
70 12074070.5_C ut	1.6	4134 - Aspen, Spruce/Fir	Poletimber Well	98	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees with one or more pulpwood sticks. Do not cut red and white pine, cedar, hemlock or oak.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)										
<u>Treatments:</u>										
<u>Acceptable</u> Mix of aspen, spruce, balsam and hardwood.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
75 12074075.4_C ut	2.9	4119 - Mixed Northern Hardwoods	Poletimber Well	95	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> This stand is to be thinned to a residual basal area of 70 - 90 ft ² per acre. Cut all aspen. Do not cut any hemlock, red oak, white pine or cedar. This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Northern hardwood mix of sugar maple, basswood and white ash.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										

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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
79 12074079.6_C ut	6.2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	95	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> This stand is to be thinned to a residual basal area of 70 - 90 ft ² per acre. Cut all aspen. Do not cut hemlock, red oak, white pine or cedar.										
<u>Specs:</u> This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.										
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<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
81 12074081.5_C ut	27.9	4119 - Mixed Northern Hardwoods	Poletimber Well	95	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> This stand is to be thinned to a residual basal area of 70 - 90 ft ² per acre. Cut all aspen. Do not cut any hemlock, red oak, white pine or cedar. Exclude any drains. This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.										
<u>Specs:</u>										
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<u>Acceptable</u> Northern hardwood mix of sugar maple, basswood, white ash and red oak.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
91 12074091.3_C ut	4.9	4110 - Sugar Maple Association	Poletimber Well	83	141- 170	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
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<u>Specs:</u> This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.										
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<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										
95 12074095.7_C ut	6.7	4119 - Mixed Northern Hardwoods	Poletimber Well	98	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	No
<u>Prescription</u> This stand is to be thinned to a residual basal area of 70 - 90 ft ² per acre. Cut all aspen. Do not cut any hemlock, elm, black ash, red oak, white pine or cedar. Exclude any drains. This thinning will release the crowns of future crop trees and concentrate growth on higher quality residual stems.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Northern hardwood mix of sugar maple, basswood, white ash and red oak.										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2018										



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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: **539.9**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

Compartment: 74

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
705	687	5	13
1	1	0	0
257	1	0	256
5	5	0	0
3	3	0	0
151	0	0	151
177	0	0	177
3	0	0	3
88	72	0	16
62	0	0	62
1032	1013	0	20
9	7	0	2
20	20	0	0
2,515	1,809	5	701
	72%	0%	28%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					5C	2F	2G	3G	3H	3J	3L	5A	5E	
705	687	5	13	Aspen	5		0			5	7		1	
1	1	0	0	Bog										
257	1	0	256	Cedar			153		78		18	8		
5	5	0	0	Herbaceous Openland										
3	3	0	0	Low-Density Trees										
151	0	0	151	Lowland Conifers			102				49			
177	0	0	177	Lowland Deciduous			47		12		118			
3	0	0	3	Lowland Mixed Forest			3							
88	72	0	16	Lowland Shrub			16							
62	0	0	62	Lowland Spruce/Fir			50				13			
1032	1013	0	20	Northern Hardwood		6	1	5			7			
9	7	0	2	Upland Mixed Forest		2								
20	20	0	0	Urban			0							
2,515	1,809	5	701	Total Forested Acres	5	9	372	5	90	5	212	8	1	
	72%	0%	28%	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	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Save for cover for deer and bear.							
2	Unavailable	3L: Other wildlife concerns	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Year of Entry: 2023

3	Unavailable	3L: Other wildlife concerns	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Save for cover for deer and bear.							
4	Unavailable	3L: Other wildlife concerns	7	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: Save for cover for deer and bear.							
5	Unavailable	3L: Other wildlife concerns	59	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Save for cover for deer and bear.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	102	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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9	Unavailable	3L: Other wildlife concerns	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wintering deer area.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Save for cover for deer and bear.							
14	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Riparian Habitat							

Report 4 – Site Conditions

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Tyler Ritchie : Examiner

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15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	78	1C: Other dept or div proc/practices	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small rocky stand with older aspen and a component of maple. Could be cut as an add on to a nearby sale in the future.							
18	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5A: Not able to obtain desirable regeneration	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3G: Other Influence zones - See comments	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Communications tower							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

Compartment: 74

Year of Entry: 2023

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	12	1C: Other dept or div proc/practices	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Year of Entry: 2023

26	Unavailable	2F: Too steep	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

Compartment: 74

Year of Entry: 2023

32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

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Year of Entry: 2023

37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	6.8	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		45	Pole/Sap/Log	8	90	Sugar Maple	Low	Variable	Sapling
Red Maple		20	Log/Pole/Sap	10	90	Red Maple	Low	Variable	Sapling
Basswood		10	Log/Pole	12	90	Balsam Fir	Low	Variable	Sapling
Quaking Aspen		20	Log/Pole/XLog	14	90	Ironwood	Low	Variable	Sapling
White Spruce		5	Log/Pole/Sap	12	90				
2	6120 - Lowland Cedar	Sawtimber Well	9.4	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole/Sap/Log	8		Balsam Fir	Low	Variable	Sapling
White Spruce		10	Log/Pole/Sap	10		Black Ash	Medium	Variable	Sapling
Black Spruce		5	Pole/Sap/Log	8					
Northern White Cedar		70	Log/Pole	10	90				
Black Ash		5	Sapling/Pole	4					
3	6115 - Lowland Ash	Poletimber Well	5.3	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole/Sap	10		Black Ash	Medium	Variable	Sapling
Yellow Birch		10	Log	12					
Quaking Aspen		5	Log	12					
Northern White Cedar		5	Log/Pole	10					
Black Ash		60	Pole/Sap/Log	8	90				
Black Spruce		5	Pole/Log/Sap	8					
Balsam Fir		5	Pole/Sapling	7					
4	4110 - Sugar Maple Association	Sawtimber Well	354.5	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		50	Log/Pole	11	90	Sugar Maple	Low	Variable	Sapling
Red Maple		5	Pole	8		Balsam Fir	Low	Variable	Sapling
Basswood		35	Log/Pole	12	90	Ironwood	Low	Variable	Sapling
White Ash		10	Log	12		Leatherwood	Medium	5 - 10 feet	Tall Shrub
5	6115 - Lowland Ash	Poletimber Well	58.8	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Black Ash	Medium	Variable	Sapling
Yellow Birch		5	Log/Pole	10					
Quaking Aspen		10	Log/Pole	12					
Balsam Poplar		5	Log/Pole/Sap	10					
Black Ash		65	Pole/Sap/Log	6	90				
Balsam Fir		5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	4130 - Aspen	Poletimber Well	5.5	48	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		20	Pole/Sapling	6		Sugar Maple	Low	Variable	Sapling
Quaking Aspen		80	Pole/Sapling	6	48	Balsam Fir	Low	Variable	Sapling
7	4130 - Aspen	Poletimber Well	22.7	47	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Pole/Sapling	6	47	Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	7					
White Spruce		5	Pole/Sap/Log	8					
Sugar Maple		5	Pole/Sapling	6					
8	6120 - Lowland Cedar	Poletimber Well	9.8	92	141-170	N/A	along rail road		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole	8		Sedges	Medium	Unspecified	Non-Wood
Northern White Cedar		95	Pole/Log	9	92	Sphagnum Moss	Medium	Unspecified	Non-Wood
9	4113 - R.Maple, Conifer	Poletimber Well	7.5	92	81-110	N/A	Along rail road. R maple mix with oversized breaking up Q aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		15	Log/XLog	17		Bracken Fern	Medium	Unspecified	Non-Wood
Balsam Fir		15	Pole/Sapling	5		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Maple		62	Pole/Log	9	92	Red Maple	Medium	>20 feet	Sapling
Black Spruce		5	Pole/Sapling	6					
Northern White Cedar		3	Pole/Log	8					
11	4130 - Aspen	Poletimber Well	33.4	47	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen		85	Pole/Sapling	6	47				
Balsam Fir		10	Pole/Sapling	6					
12	4110 - Sugar Maple Association	Sawtimber Well	23.3	90	81-110	N/A	was part of Multificus T-sale closed 2001		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Log/Pole/Sap	10	90	Balsam Fir	Low	Variable	Sapling
Basswood		35	Log/Pole	10	90	Ironwood	Low	Variable	Sapling
Quaking Aspen		5	Log	12		Leatherwood	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
13	4130 - Aspen	Poletimber Well	67.1	44	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole/Sapling	6	44	Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Sapling	4					
Sugar Maple		5	Sapling/Pole	4					
14	4110 - Sugar Maple Association	Sawtimber Well	22.6	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	10	90	Balsam Fir	Low	Variable	Sapling
Basswood		35	Log/Pole	12	90	Ironwood	Medium	Variable	Sapling
White Ash		5	Log/Pole/Sap	12	90	Leatherwood	Medium	< 5 feet	Tall Shrub
Quaking Aspen		5	Log/Pole/Sap	12		Red Maple	Medium	5 - 10 feet	Sapling
15	4130 - Aspen	Sapling Well	28.6	2	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		100	Sapling	1	2				
16	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	49.1	90	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		10	Log/Pole/Sap	10		Balsam Fir	Low	Variable	Sapling
Black Spruce		15	Pole/Sap/Log	8	90	Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar		35	Pole/Log	8	90				
Tamarack		25	Log/Pole/Sap	10	90				
Black Ash		15	Pole/Sap/Log	8					
17	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	54.3	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log/Pole/Sap	10		Balsam Fir	Medium	Variable	Sapling
Paper Birch		10	Log/Pole	10		Black Ash	Medium	Variable	Sapling
Quaking Aspen		10	Log	12					
Balsam Fir		10	Pole/Sapling	6					
Northern White Cedar		5	Pole/Log	8					
Black Ash		40	Pole/Sap/Log	8	90				
18	4130 - Aspen	Sapling Well	6.4	20	Immature	N/A	was accessed from north; Bad Water Aspen T-sale		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling	2	20	Black Ash	Medium	5 - 10 feet	Sapling
Balsam Fir		10	Sapling	3		Balsam Fir	Medium	5 - 10 feet	Sapling
Sugar Maple		5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
19	6122 - Black Spruce	Poletimber Well	12.7	80	111-140	N/A																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>60</td> <td>Pole/Sap/Log</td> <td>6</td> <td>80</td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Log</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Pole	8		Black Spruce	60	Pole/Sap/Log	6	80	Northern White Cedar	15	Pole/Log	8		Tamarack	5	Pole	8		Black Ash	5	Pole/Sapling	6		Quaking Aspen	10	Log	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub	Balsam Fir	Trace	>20 feet	Sapling		
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20	4130 - Aspen	Sapling Well	15.1	20	Immature	N/A	Badwater Aspen T-sale closed 2001																																													
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22	6223 - Inundated Shrub Swamp	Nonstocked	53.5		Immature	No																																														
23	122 - Road/Parking Lot	Nonstocked	1.6			No	CR 607																																													
24	4130 - Aspen	Sawtimber Well	7.1	85	81-110	N/A	Tree w/nail = corner? Old barbwire fence; garbage (glass containers, shingles) behind house on state land. Possible trespass, out building and garbage.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
26	6120 - Lowland Cedar	Poletimber Well	9.0	100	111-140	N/A																																																											
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27	4130 - Aspen	Sapling Well	18.1	2	Immature	N/A	Rock outcrops and small wet ash pockets.																																																										
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28	6115 - Lowland Ash	Poletimber Medium	21.1	80	51-80	N/A																																																											
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29	6120 - Lowland Cedar	Poletimber Medium	26.5	98	141-170	N/A	OPIC - FMD: WAS PART OF STAND 1.(1997) Retain thermal cover(2007).Wet, swampy stand, large areas alder with islands of cedar mix.																																																										
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30	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.1	91	81-110	N/A	OPIC - FMD: WAS PART OF STAND 13.(1997) Mostly maple with scattered aspen, spruce fir understorey. (2007). Mix of hardwood, aspen, b fir. granite knob in middle of stand.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	4130 - Aspen	Poletimber Well	15.5	44	111-140	N/A	OPIC - FMD: OI Stand Year Origin was 1977. Q aspen to the west side of stand is upland mix, poles. Northeast side of stand is wet with avg DBH of 4" Q aspen. There is a cedar/B ash drain in this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole	9		Leatherwood		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		60	Pole/Sapling	7	44	Bracken Fern		Medium	Unspecified	Non-Wood
Balsam Fir		5	Pole/Sapling	6		Sedges		High	Unspecified	Non-Wood
Balsam Poplar		10	Sapling/Pole	4		Balsam Fir		Medium	10 - 20 feet	Sapling
Northern White Cedar		5	Pole	8		Tag Alder		High	5 - 10 feet	Tall Shrub
Black Ash		5	Pole/Sapling	6		Red Osier Dogwood		Medium	5 - 10 feet	Tall Shrub

32	4110 - Sugar Maple Association	Poletimber Well	46.8	95	81-110	N/A	OPIC - FMD: MUCH A3 ON WEST SIDE. SOME OAK. GOOD MAPLE REPRODUCTION.(1997) Highly varied stand. Hilly. Small E inclusions. Some F type in understory. Unmarked hardwood will meet retention goals.Follow up with regeneration check. (2007) Harvested 2012 with "3 of 3" sale #12-016-09-01.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		45	Pole	8	95	Leatherwood		Low	5 - 10 feet	Tall Shrub
Yellow Birch		5	Pole	8		Hazelnut (American)		Low	5 - 10 feet	Tall Shrub
White Ash		10	Log	12		Sedges		Medium	Unspecified	Non-Wood
Basswood		30	Log/Pole	10		White Spruce		Low	10 - 20 feet	Sapling
Red Oak		10	Log/Pole	12		Balsam Fir		Low	10 - 20 feet	Sapling
						Ironwood		Low	>20 feet	Sapling

33	4130 - Aspen	Poletimber Well	31.6	44	111-140	N/A	OPIC - FMD: WAS PART OF STAND 2(1997)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		95	Pole	8	44	Sedges		High	Unspecified	Non-Wood
Red Maple		5	Sapling/Pole	4		Balsam Fir		Low	>20 feet	Sapling

34	4130 - Aspen	Poletimber Well	5.5	43	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Pole/Sapling	6	43	White Ash		High	10 - 20 feet	Sapling
Sugar Maple		5	Sapling/Pole	4						
Balsam Fir		10	Sapling/Pole	4						
White Ash		5	Sapling/Pole	4						
Bigtooth Aspen		30	Pole/Sapling	6						

35	4130 - Aspen	Poletimber Well	3.9	43	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Sapling/Pole	4		White Ash		Medium	Variable	Sapling
Balsam Fir		5	Sapling/Pole	4		Black Ash		Medium	Variable	Sapling
White Ash		5	Sapling/Pole	4						
Black Ash		5	Sapling/Pole	4						
Quaking Aspen		80	Pole/Sapling	5	43					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
36	6130 - Fir, Aspen, Maple	Poletimber Well	2.9	98	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1923. Spruce/fir mix with large, breaking up aspen.																																																			
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37	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	102.3	100	51-80	N/A																																																				
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38	6118 - Lowland Deciduous with Cedar	Poletimber Medium	4.9	98	111-140	N/A	OPIC - FMD: WAS PART OF STAND 1.(1997) E inclusion.(2007) Lowland mix with solid alder along southern edge. Unable to locate SE corner monument.																																																			
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39	122 - Road/Parking Lot	Nonstocked	4.4		Immature	No	Railroad track.																																																			
40	6223 - Inundated Shrub Swamp	Nonstocked	5.5	102	Immature	No																																																				
41	6122 - Black Spruce	Poletimber Medium	44.9	100	81-110	N/A																																																				
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42	6223 - Inundated Shrub Swamp	Nonstocked	10.8	0	Unspecified	No	Small upland piece in SE corner of stand.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
43	6220 - Alder/willow	Nonstocked	5.3	0		No	OPIC - FMD: OI Stand Year Origin was... Standing water, heavy tag alder with islands of b spruce and q aspen.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Low	>20 feet	Pole	
								Quaking Aspen	Low	>20 feet	Pole	
44	123 - Other High Intensity Urban	Nonstocked	0.7	0		No	Railroad					
45	6115 - Lowland Ash	Poletimber Medium	1.4	98	81-110	N/A	OPIC - FMD: Between Bass Lk rd and creek. (2007). Standing water with b ash and alder.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Ash	100	Pole/Sapling	6	98
								Sub-Canopy Species	Density	Avg. Height	Size	
Tag Alder	High	10 - 20 feet	Tall Shrub									
Sedges	Low	Unspecified	Non-Wood									
46	123 - Other High Intensity Urban	Nonstocked	0.6	0		No	OPIC - FMD: Between Bass Lk rd and creek. (2007). Standing water with b ash and alder.					
47	3102 - Grass	Nonstocked	0.5			No	OPIC - FMD: OI Stand Year Origin was					
48	4319 - Mixed Upland Forest	Poletimber Well	2.2	184	81-110	N/A	OPIC - FMD: WAS PART OF STAND 1.(1997) Aspen , F and hdwd along co rd. (2007). Significant slope from road to top of granite bluff. South end of stand is cedar swamp.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	15	Pole	8	
								Basswood	8	Log/Pole	10	
								Quaking Aspen	7	XLog/Log	18	
								Balsam Fir	8	Pole	6	
								Red Maple	12	Log/Pole	10	
								White Spruce	4	Pole	8	
								Yellow Birch	4	Pole	8	
								Northern White Cedar	34	Log/Pole	10	184
								Black Ash	8	Log/Pole	10	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Bracken Fern	Low	Unspecified	Non-Wood	
White Spruce	Low	10 - 20 feet	Sapling									
Balsam Fir	Low	10 - 20 feet	Sapling									
49	6120 - Lowland Cedar	Poletimber Well	77.6	117	171-200	N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	95	Pole	7	117
								Black Spruce	5	Pole	5	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Sapling	
Tag Alder	High	5 - 10 feet	Tall Shrub									
Balsam Fir	Low	Variable	Sapling									
Hazelnut (Spp.)	Trace	5 - 10 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
50	4134 - Aspen, Spruce/Fir	Sapling Well	92.6	17	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 2004 (Cut in 2004) Couple of small wet sinks with alder and a trace of cedar, tamarack, and black ash. Also trace amounts of white pine and paper birch. Some older timber along highway from a buffer, about 300 feet.																																													
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51	6120 - Lowland Cedar	Poletimber Well	3.0	83	141-170	N/A	OPIC - FMD: Travel influence. Small stand. (2008) Communication tower surrounded by a mix of hardwoods on rocky terrain.																																													
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52	4112 - Maple, Beech, Cherry Association	Poletimber Poor	5.3	101	81-110	N/A	OPIC - FMD: Travel influence. Small stand. (2008) Communication tower surrounded by a mix of hardwoods on rocky terrain.																																													
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54	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.3	69	111-140	N/A	Trace amounts of yellow birch, oak, and black spruce.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56 4319 - Mixed Upland Forest Poletimber Well 6.8 29 N/A OPIC - FMD: OI Stand Year Origin was 1992

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole	7		Balsam Fir	High	Variable	Sapling
Quaking Aspen	45	Sapling/Pole	4	29	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Pole	6		Black Ash	Low	< 5 feet	Seeding
Northern White Cedar	35	Log/Pole	10					

57 310 - Herbaceous Openland Nonstocked 2.3 No

58 4119 - Mixed Northern Hardwoods Sawtimber Well 202.1 108 81-110 N/A OPIC - FMD: Hilly but mostly operable. Many rock outcrops. Drainage in center of stand. Follow up with regeneration check.(2008). Cut 8/12 under Billy Goat Hardwood sale Steep and rocky terrain with drainages and a few low areas.Trace amounts of cedar.South west corner has a high concentration of Aspen saplings only a few acres in size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	11	108	Balsam Fir	Low	Variable	Sapling
Red Maple	30	Log/Pole	11		Aspen (spp.)	Low	Variable	Sapling
Quaking Aspen	5	Log/Pole	15		Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	10		Sugar Maple	Trace	< 5 feet	Seeding
Basswood	5	Log/Pole	16		Red Maple	Trace	< 5 feet	Seeding
White Ash	10	Log/Pole	12		Leatherwood	Trace	5 - 10 feet	Tall Shrub
Yellow Birch	5	Log/Pole	12		White Ash	Low	< 5 feet	Seeding
Black Ash	5	Log/Pole	10		Red Maple	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling
					Black Ash	Low	Variable	Sapling
					White Spruce	Trace	Variable	Sapling

59 4130 - Aspen Poletimber Well 6.2 42 N/A Cut in 1979

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Pole	7	42	Balsam Fir	High	Variable	Sapling
					Black Ash	Low	Variable	Sapling
					Hazelnut (Spp.)	Trace	5 - 10 feet	Tall Shrub

60 6118 - Lowland Deciduous with Cedar Poletimber Well 12.0 87 141-170 N/A Trace amounts of red maple, quaking aspen and black spruce

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	60	Pole	9	87	Balsam Fir	High	Variable	Sapling
Northern White Cedar	40	Pole	9		Black Ash	High	Variable	Sapling
					Black Ash	High	< 5 feet	Seeding
					Black Spruce	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
61	4130 - Aspen	Poletimber Well	28.6	42		N/A	OPIC - FMD: OI Stand Year Origin was 1979 Strip along south side of stand is older and was left as a buffer along stand 70.																																																					
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62	622 - Lowland Shrub	Nonstocked	8.7			No																																																						
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63	4130 - Aspen	Sawtimber Well	9.7	99		N/A	OPIC - FMD: Small stand on road and railroad line with creek running through. If cutting retain conifer. (2008) Railroad cuts through middle of stand. Trace amounts of paper birch, basswood, spruce, cherry and oak.																																																					
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64	122 - Road/Parking Lot	Nonstocked	3.1	0		No	OPIC - FMD: Small stand on road and railroad line with creek running through. If cutting retain conifer. (2008)																																																					
65	622 - Lowland Shrub	Nonstocked	1.7	102		No	OPIC - FMD: TRAVEL INFLUENCE ZONE, HOLD AS OLD GROWTH.																																																					
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66	310 - Herbaceous Openland	Nonstocked	2.2			No																																																						
67	4130 - Aspen	Sawtimber Well	2.1	99	141-170	N/A	OPIC - FMD: Travel influence. Remove aspen and some hardwood.(2008)																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 6120 - Lowland Cedar Poletimber Well 12.1 98 141-170 N/A OPIC - FMD: OI Stand Year Origin was 1923. Stand is wet with standing water.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	61	Log/Pole	10	98	Black Ash	Medium	5 - 10 feet	Sapling
Quaking Aspen	2	Log	15		Sphagnum Moss	High	Unspecified	Non-Wood
Paper Birch	4	Pole	8		Sedges	High	Unspecified	Non-Wood
Black Spruce	11	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	7	Pole/Sapling	6		Red Osier Dogwood	Medium	5 - 10 feet	Tall Shrub
Black Ash	13	Pole/Sapling	6					
Red Maple	2	Pole	6					

79 4116 - Mixed N. Hardwood - Aspen Poletimber Well 6.3 95 81-110 N/A OPIC - FMD: F and Q inclusions. (2007). Not a very good hardwood stand, sugar maple/basswood in the middle with quaking aspen along edges.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Pole	6		Sedges	High	Unspecified	Non-Wood
Sugar Maple	44	Pole/Log	9	95	Leatherwood	Medium	5 - 10 feet	Tall Shrub
Basswood	27	Log/Pole	12		Balsam Fir	Low	10 - 20 feet	Sapling
Balsam Fir	7	Pole	9		Ironwood	Low	10 - 20 feet	Sapling
White Ash	2	Pole	8					

80 4130 - Aspen Sapling Medium 11.4 8 Immature N/A OPIC - FMD: 2 of 3 TS cut 2013

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	1	8	Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub
Red Oak	5	Pole	6		Sedges	High	Unspecified	Non-Wood
Balsam Fir	5	Sapling/Pole	4					

81 4119 - Mixed Northern Hardwoods Poletimber Well 34.4 95 81-110 N/A Rising terrain, from east to west. Granite bluffs along west side of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	37	Pole/Log	8	95	Sedges	Medium	Unspecified	Non-Wood
Basswood	19	Log/Pole	10		Bracken Fern	Medium	Unspecified	Non-Wood
Paper Birch	5	Log/Pole	10		Balsam Fir	Low	10 - 20 feet	Sapling
White Ash	5	Pole/Log	8		White Spruce	Low	10 - 20 feet	Sapling
Red Oak	19	Log	14					
Red Maple	2	Log/Pole	12					
Yellow Birch	12	Pole	6					
Quaking Aspen	1	Log	16					



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82	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.7	95	51-80	N/A	OPIC - FMD: WAS PART OF STAND 8.(1997). Wet saturated soils, standing water.																																														
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83	6120 - Lowland Cedar	Poletimber Well	78.2	98	141-170	N/A	OPIC - FMD: Areas of black ash and tag alder (2007). Very wet, standing water, dense cedar. Plenty of black ash saps along edges and in pockets throughout. Thick pockets of tag alder throughout.																																														
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84	4130 - Aspen	Poletimber Well	28.1	41	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1980. Upland to lowland, southwest to northeast. Pockets of bigtooth aspen mixed in, growing straight. Cedar/black ash along northern edge of stand. Small creek along northern edge of stand draining towards corner to the northeast.																																														
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91	4110 - Sugar Maple Association	Poletimber Well	4.9	83	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1938. Good hardwood stand. Hemlock mixed in along east side, with a small hemlock stand on the south end.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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92 4130 - Aspen Poletimber Well 42.5 32 Immature N/A OPIC - FMD: OI Stand Year Origin was 1989

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	95	Pole	6	32	Sedges	High	Unspecified	Non-Wood
Red Oak	2	XLog/Log	20		Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
Ironwood	1	Pole	6		Leatherwood	Low	5 - 10 feet	Tall Shrub
Balsam Fir	1	Pole/Sapling	6					
White Spruce	1	Pole	8					

93 6115 - Lowland Ash Poletimber Medium 6.5 95 81-110 N/A OPIC - FMD: OI Stand Year Origin was 1926. Wet, standing water with clumps of black ash surrounded by tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	85	Log/Pole	10	95	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Yellow Birch	5	Log/Pole	10		Sedges	Medium	Unspecified	Non-Wood
Red Maple	5	Log/Pole	10		Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
American Elm	5	Pole	8					

94 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 3.5 95 51-80 N/A OPIC - FMD: OI Stand Year Origin was 1926. Wet, standing water, island of mixed trees asurrounded by tag alder.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Log/Pole	12		Black Ash	High	5 - 10 feet	Sapling
Yellow Birch	5	Pole	8		White Spruce	Medium	10 - 20 feet	Sapling
Black Ash	53	Pole/Sapling	6	95	Tag Alder	Medium	10 - 20 feet	Tall Shrub
White Spruce	5	Log/Pole	10		Sedges	High	Unspecified	Non-Wood
American Elm	5	Sapling/Pole	4					
Balsam Fir	11	Sapling/Pole	4					
Red Maple	11	Pole	8					
Northern White Cedar	5	Log	12					

95 4119 - Mixed Northern Hardwoods Poletimber Well 7.5 98 111-140 N/A OPIC - FMD: WAS PART OF STAND 1.(1997). Southern end of stand is lowland hardwood mix, rest of stand is northern hardwood mix.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	28	Pole/Log	8	98	Leatherwood	Low	5 - 10 feet	Tall Shrub
Basswood	4	Log/Pole	10		Ironwood	Low	10 - 20 feet	Sapling
White Ash	9	Log/Pole	12		White Spruce	Low	10 - 20 feet	Sapling
Paper Birch	3	Log/Pole	10		Balsam Fir	Low	10 - 20 feet	Sapling
Yellow Birch	13	Log/Pole	10		Sedges	Medium	Unspecified	Non-Wood
Red Maple	18	Log/Pole	10					
Ironwood	1	Pole	6					
Quaking Aspen	3	Log	16					
Black Ash	15	Pole	8					
American Elm	6	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
96	4110 - Sugar Maple Association	Poletimber Well	100.5	95	81-110	N/A	OPIC - FMD: MUCH DOWNED WOOD. ASPEN IN SCATTERED PATCHES. NICE BASSWOOD.(1997) Highly varied stand (terrain, poles v logs, species mixture). Unmarked hardwood will meet retention goals. Follow up with regeneration check.(2007) Harvested 2012 with "1 of 3" sale #12-014-09-01. Rolling terrain, good woods roads running throughout stand.																																																							
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White Spruce	Low	5 - 10 feet	Sapling																																																											
100	6225 - Bog	Nonstocked	1.1			No	OPIC - FMD: OI Stand Year Origin was																																																							
101	3303 - Mixed Low Density Trees	Nonstocked	3.3			Managed Opening	OPIC - FMD: OI Stand Year Origin was... Grass opening that is disappearing due to infiltration of white spruce, black spruce, sugar maple, quaking aspen, tamarack, balsam fir and paper birch. Clear cut to return to grass opening. Possible candidate for post harvest burn to promote grassland.																																																							