



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12046

Entry Year 2021

Acreage: 1,066

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2019-07-30

Stand Examiner: Jacob Siler

Legal Description:

T43N, R30W, Sections 18 and 19

Identified Planning Goals:

This compartment is being managed with varying ages of aspen and alternately managed hardwood stands. Most lowland/cedar stands fall within stream buffers and are within deer obligate winter range. The lowland/cedar stands being left leaves a complex yet diverse buffer zone both for the Ford River and Bice Creek.

Soil and topography:

There are some rolling uplands in this compartment and this ranges down to the swampy, conifer areas.

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

This compartment is on the outer, southwestern edge of Channing. There are farm fields on the north access road (which is 10th Street) and all private forties.

Unique Natural Features:

The headwaters of the Ford River.

Archeological, Historical, and Cultural Features:

None that are known at this time.

Special Management Designations or Considerations:

Buffers along Bice Creek and the Ford River.

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of the Ford River. These headwater reaches are designated Type 1 trout streams less than 50' width. 300' buffers are recommended for these headwater reaches 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:

The compartment is heavily used by wintering deer and considered winter deer range. Wintering deer are even using upland areas where spruce and fir are present. Compartment also has 80 acres of state game purchased land. Transition areas from lowland to upland are used heavily by deer as well.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located one mile to the east, in Section 16, and there may be some sand & gravel potential within the compartment on the uplands. There appears to be significant amounts of clay amongst the glacial sediments. Mineral rights in and around the compartment were previously leased for metallic mineral exploration and development more than 30 years ago. Extensive iron ore exploration has occurred south and west of the compartment; however, no mining occurred in this area. If iron formation was encountered, it was likely too deep or of poor quality. There may still be metallic mineral potential within the compartment. There is no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is an access road from the south (the County Line Road) and an access road to the north (10th Street) but otherwise access is limited.

Survey Needs:

Corners may be needed

Recreational Facilities and Opportunities:

This area is used for hunting and possibly fishing.

Fire Protection:

Fire vehicles would have fair access once they left the county roads, but it depends on how dry it was.

Additional Compartment Information:

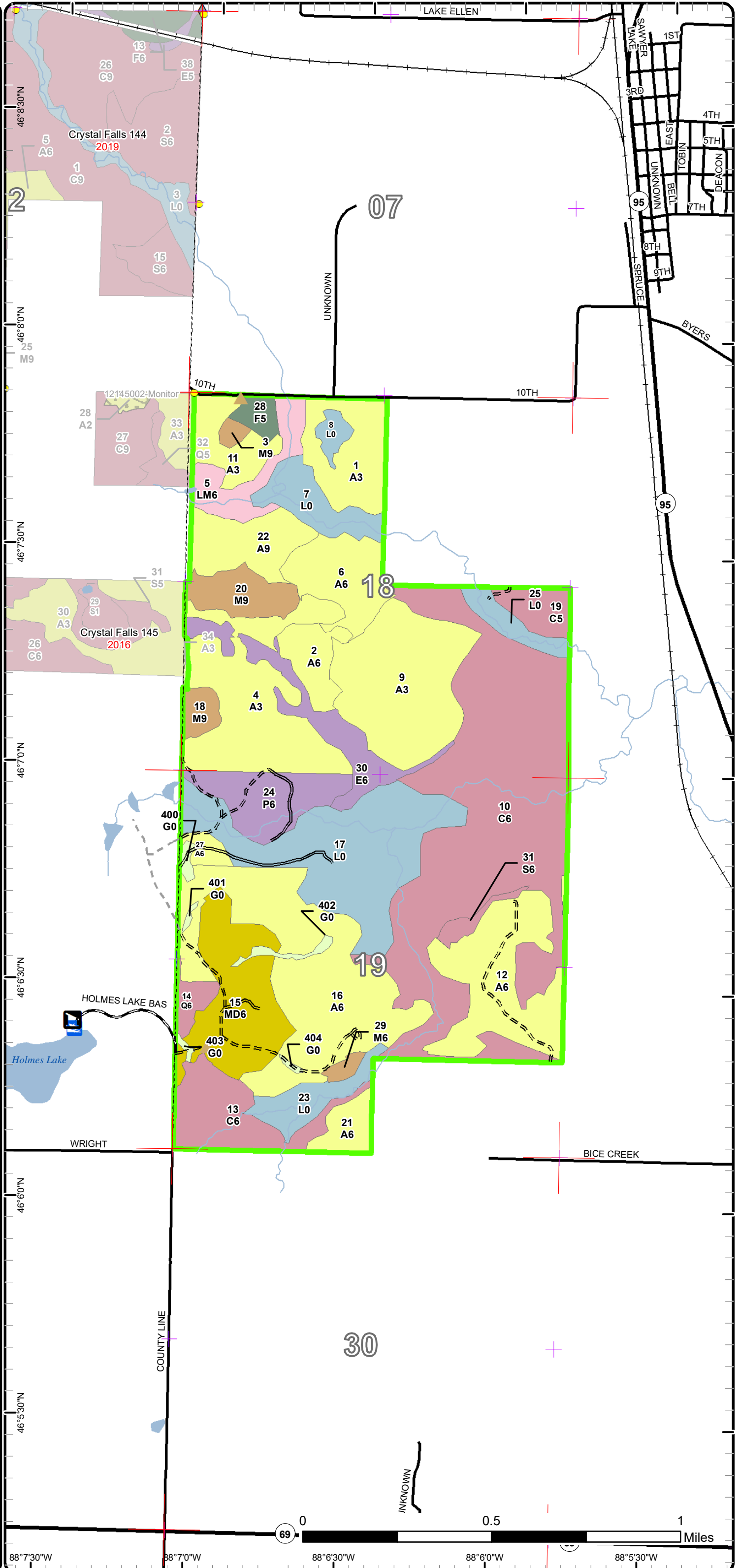
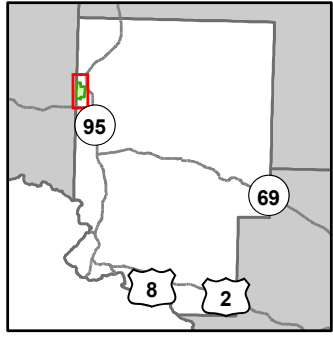
The following reports from the Inventory are attached:

- 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: 46
 T43N, R30W, Sec. 18, 19
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground Moraine
 YOE: 2021
 Acres: 1,066 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 1/27/2020
 Map Phase: Post-Review

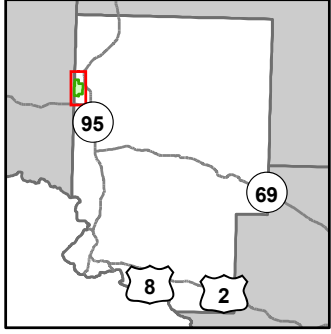


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ☐ Toilet
- ▲ Berms
- 🚤 Boating Access Site
- ▭ Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

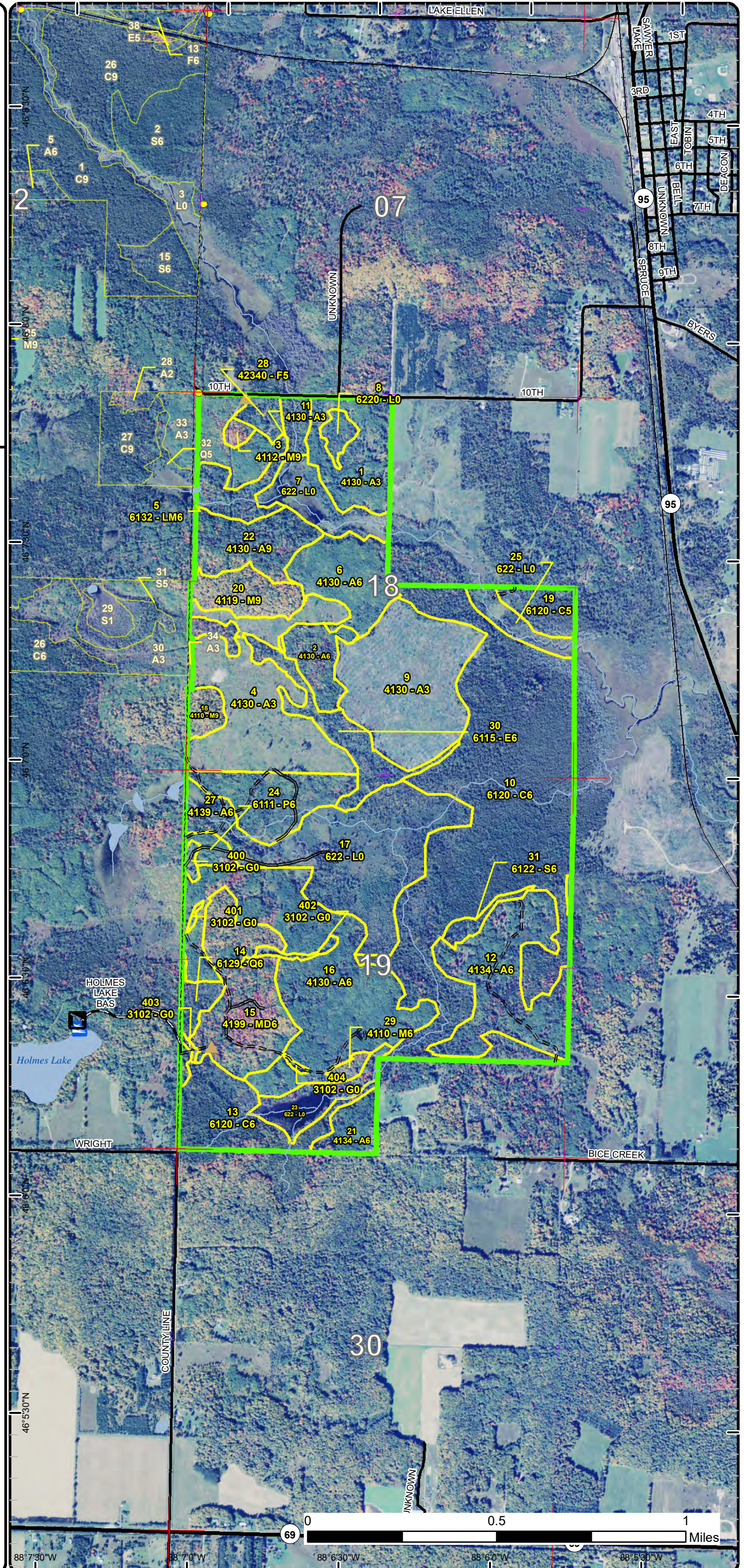


Stand Boundary Map

Compartment: 46
 T43N, R30W, Sec. 18, 19
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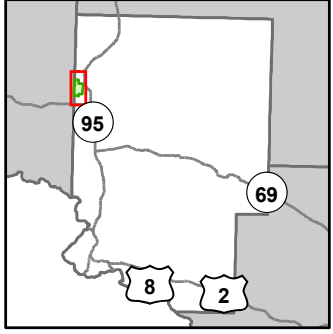


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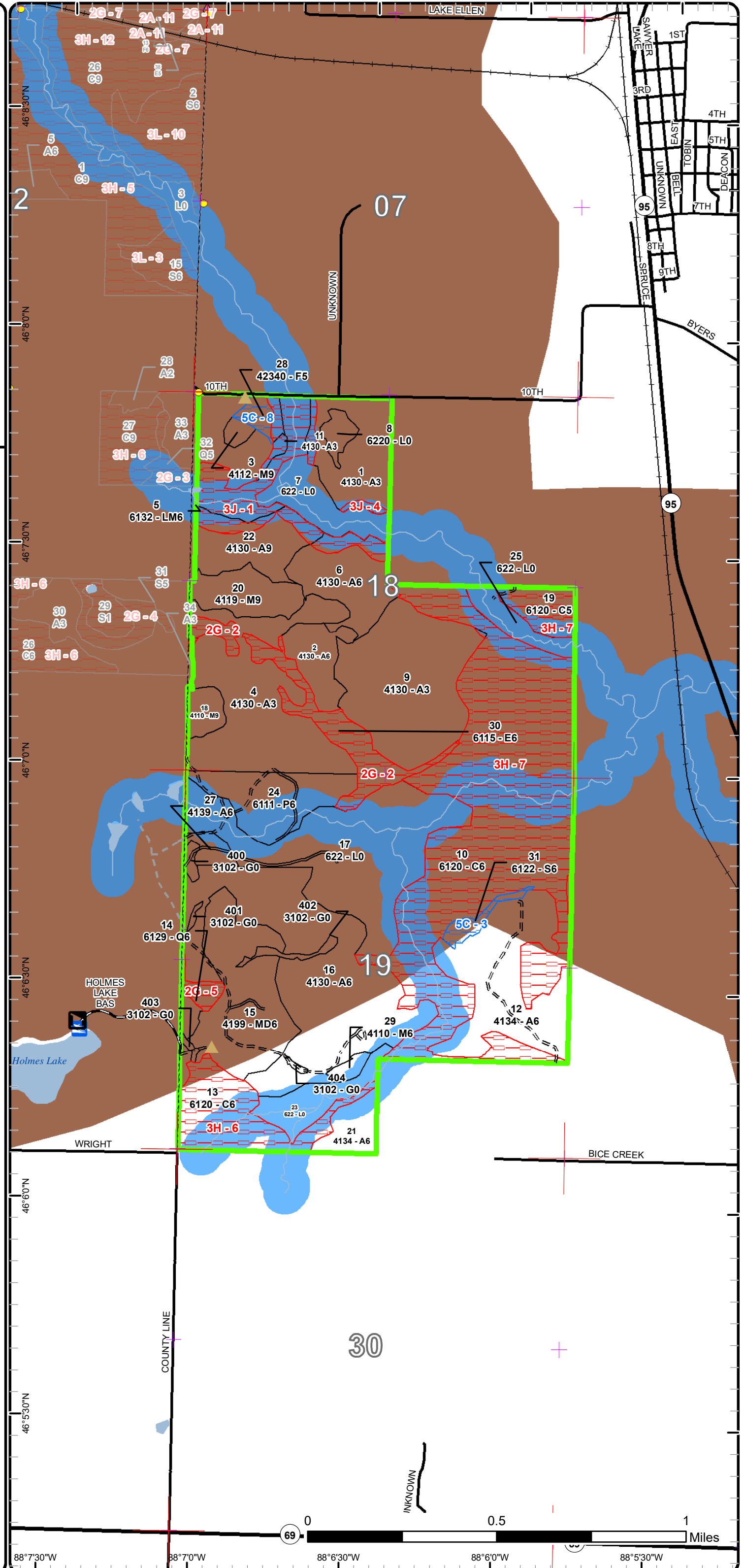


Special Conservation Areas & Site Conditions Map

Compartment: 46
 T43N, R30W, Sec. 18, 19
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- Perennial River
- Lakes and Rivers
- Toilet
- ▲ Berms
- ▲ Boating Access Site
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	147	20	106	146	0	45	0	0	0	0	0	0	0	0	0	0	0	464
Cedar	0	0	0	0	0	0	0	0	0	264	0	0	0	0	0	0	0	0	263
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Conifers	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Deciduous	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	29
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Lowland Shrub	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	55
Northern Hardwood	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	3	32
Upland Spruce/Fir	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Total	152	147	20	106	177	0	52	0	0	329	5	0	21	0	0	0	0	58	1066



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 46
Total Compartment Acres: 1,066

Commercial Harvest - 96
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	37	0	0	0	0	0	0	0	0	37
Lowland Conifers	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	51	0	0	0	0	0	0	0	0	51
Northern Hardwood	0	0	0	0	0	6	0	0	0	6
Total	90	0	0	0	0	6	0	0	0	96

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	96	0	0	0	0	0	0	0	0	96
Next Step	0	0	0	0	0	0	90	0	0	90
Total	96	0	0	0	0	0	90	0	0	186



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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Proposed Treatments:

2	12046002-Cut	15.8	4130 - Aspen	Poletimber Well	56	Unspec ified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at dbh. Cut all spruce/fir with 1 or more pulp sticks. Do not cut red pine, white pine and cedar. Leave dense spruce/fir & vernal as retention. Buffer vernal one tree length. Cut in winter or dry summer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple</p> <p><u>Regen:</u></p> <p><u>Other</u> Include small bubble of slightly younger aspen in the north east corner to even age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
3	12046003-Cut	2.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin Stand to 70 basal area. Cut all aspen, spruce and fir with one or more pulp sticks. Do not mark hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood associates</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
14	12046014-Cut	2.9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	84	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees with one or more pulp sticks. Do not cut white pine, cedar and hemlock. Cut in winter or dry summer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> lowland conifer, white pine, hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u> North half of stand would not get treated; its too wet.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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15	12046015-Cut	50.5	4199 - Other Mixed Upland Deciduous	Poletimber Well	70	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches at dbh and up. Do not cut pine, cedar and hemlock. Red line out 2 or 3 larger hardwood patches. Red line out 4 one acre patches of dense spruce/fir or equivalent amount. Distributed spruce/fir patches across the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed hardwood, mixed softwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Hardwood patches designated in current treatment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

22	12046022-Cut	20.9	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees that are 2 inches and larger at DBH. Cut all spruce/fir with 1 or more pulp sticks. Do not cut cedar and pine. Buffer Ford River 300 feet. Buffer Ford River tributary 300 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, balsam poplar, paper birch</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention in buffer</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

29	12046029-Cut	3.0	4110 - Sugar Maple Association	Poletimber Well	83	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70 basal area. Cut all aspen, spruce and fir with one or more pulpwood sticks. Do not cut cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood associates</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

Total Treatment 95.9
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 46
Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3H	3J
464	445	0	18	Aspen		0	0	18
264	0	0	264	Cedar			264	
7	7	0	0	Herbaceous Openland				
31	31	0	0	Lowland Aspen/Balsam Poplar		0		
7	3	0	4	Lowland Conifers		4		
29	0	0	29	Lowland Deciduous		29		
21	0	0	21	Lowland Mixed Forest				21
145	145	0	0	Lowland Shrub		0	0	0
5	0	5	0	Lowland Spruce/Fir	5			
55	55	0	0	Mixed Upland Deciduous		0		
32	32	0	0	Northern Hardwood				
7	0	5	2	Upland Spruce/Fir	5			2
1,066	717	9	339	Total Forested Acres	9	34	264	41
	67%	1%	32%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	40	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 46
Year of Entry: 2021



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	36	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Far north portion of stand within deer wintering area.							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	228	5A: Not able to obtain desirable regeneration	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Most of stand is within deer wintering area.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mix of mature aspen, young aspen, openings, spruce, and fir. Majority of mature aspen located within buffer.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	4130 - Aspen	Sapling Well	32.7	29	Immature	N/A	Stand was cut in 1991. Trace amounts of hemlock, sugar maple, red maple, yellow birch, elm, cedar and larger balsam fir and white spruce in the canopy. Scattered small open patches with low density trees. Tag alder found in stand occurs in small patches. Larger mature aspen can be found on the west side of stand bordering the Q type where it would most likely fall in the stream buffer.																																														
<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>Quaking Aspen</td> <td>85</td> <td>Sapling/Pole</td> <td>4</td> <td>29</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td>29</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	85	Sapling/Pole	4	29	Balsam Poplar	10	Sapling/Pole	4	29	<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bracken Fern</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Bracken Fern	Medium	Unspecified	Non-Wood	White Spruce	Low	Variable	Sapling	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	Cherry (spp.)	Low	Variable	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub				
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2	4130 - Aspen	Poletimber Well	16.4	56	Unspecified	N/A	Stand has 2 ages of aspen one being 54 and the other being 45. If harvested incorporate younger (45) aspen in the north east corner of stand to even age class. Trace amounts of paper birch and red pine.																																														
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3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.8	82	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>Sugar Maple</td> <td>75</td> <td>Log/Pole</td> <td>11</td> <td>82</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table> <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>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	75	Log/Pole	11	82	Red Maple	25	Log/Pole	11		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	Variable	Sapling	Ironwood	Low	Variable	Sapling	Balsam Fir	Trace	Variable	Sapling	White Spruce	Trace	Variable	Sapling											
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4	4130 - Aspen	Sapling Well	73.0	6	Immature	N/A	Harvested 2013- Aspen regeneration cut. Stand was overmature at time of harvest. Chipping was done as part of harvest. Trace amounts of maple and white pine in the super canopy. (2018)																																														
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5	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	21.2	111	111-140	N/A	Lowland stand along stream. Stand slopes up from cedar and tag alder along stream to mature aspen. Trace amounts of elm and red maple in the canopy																																														
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6	4130 - Aspen	Poletimber Well	31.1	33	Unspecified	N/A	Trace amounts of cherry, black ash, and red maple. Some small low spots present.																																
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7	622 - Lowland Shrub	Nonstocked	21.3		Unspecified	No	Lowland stand that includes some of the buffers from surrounding stands. (2018)																																
8	6220 - Alder/willow	Nonstocked	5.2	0	Unspecified	No	<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>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Poplar</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	Tall Shrub	Balsam Poplar	Low	Variable	Sapling	Quaking Aspen	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling												
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9	4130 - Aspen	Sapling Well	74.0	6	Immature	N/A	Harvested 2014- Aspen was overmature, clearcut to promote regeneration. Trace amounts of elm, white pine, cherry, red maple, balsam fir, paper birch, and white spruce. (2018)																																
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10	6120 - Lowland Cedar	Poletimber Well	214.1	89	141-170	N/A	Trace amounts of red maple, paper birch, and quaking aspen. (2018)																																
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11	4130 - Aspen	Sapling Well	20.2	17	Immature	N/A	Trace amounts of red maple, elm, red pine, and basswood in canopy.																																
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12	4134 - Aspen, Spruce/Fir	Poletimber Well	61.1	29	Unspecified	N/A	OPIC - FMD: TORNADO AND BUDWORM DAMAGE. Canopy closure looks to be more towards 75% with the scattered openings. Trace amounts of oak, black spruce, cedar and, super canopy white pine. (2018)																																
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13	6120 - Lowland Cedar	Poletimber Well	36.4	88	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1917High spot along the south line with some spruce, aspen, maple and birch. Stand 26, that was between stands 13 and 21, was combined with 13. (2018)																																																				
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14	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.3	84	81-110	N/A	Trace amounts of red pine, hemlock, yellow birch, red maple, aspen, and paper birch. North part of stand has significantly more black ash, cedar and tag alder. (2018)																																																				
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15	4199 - Other Mixed Upland Deciduous	Poletimber Well	54.6	70	111-140	N/A	Ash saplings on far north side of stand are thick in areas but overall low density.(2018)Stand 14 was combined with stand 15 (2018)Part of stand was cut in 1974 (2018)																																																				
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16	4130 - Aspen	Poletimber Well	109.1	35	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1985Some pockets of thick balsam fir saplings and a few scattered low pockets. Trace amounts of cherry, black ash, and red maple. (2018)																																																				
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17	622 - Lowland Shrub	Nonstocked	90.4		Unspecified	No	Lowland shrub stand with scattered trees. Various species along the edge of stand, e.g., aspen, balsam poplar, cedar, maple, pine, and ash. (2018)																																																				
18	4110 - Sugar Maple Association	Sawtimber Well	7.4	86	81-110	N/A	Trace amounts of cedar and red maple. (2018)																																																				
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19	6120 - Lowland Cedar	Poletimber Medium	13.2	88	81-110	N/A	Small section of stand is higher ground with scattered large aspen and spruce. BA is very low on the higher ground.																																																			
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20	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.9	86	81-110	N/A	Thinned 2013 Ironwood sub- canopy thicker around edges. (2018)																																																			
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21	4134 - Aspen, Spruce/Fir	Poletimber Well	12.0	29	Unspecified	N/A	Trace amounts of larger maple. (2018)																																																			
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22	4130 - Aspen	Sawtimber Well	28.7	56	81-110	N/A	Trace amounts of elm in the canopy (2018)																																																			
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23	622 - Lowland Shrub	Nonstocked	16.8		Unspecified	No	Mostly water with some trees around the perimeter. Most perimeter trees are cedar and some aspen to the north that was a buffer. (2018)																																																			



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24	6111 - Lowland Balsam Poplar	Poletimber Well	31.1	32	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1988 Trace amounts of white pine, paper birch, tamarack, and red pine. (2018)																																																				
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25	622 - Lowland Shrub	Nonstocked	11.1		Unspecified	No	Scattered trees on the edge of stand and center. Mostly cedar.																																																				
27	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.4	32	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1988 Trace amounts of red maple, hemlock, white pine, cedar, and aspen.																																																				
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28	42340 - Upland Spruce/Fir	Poletimber Medium	6.7	58	Unspecified	N/A	Very diverse stand. Mix of mature aspen, young aspen, openings, spruce, and fir. Most of the mature aspen is located on the east side of the stand where it buffers the ford. Trace amounts of basswood and paper birch.																																																				
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29	4110 - Sugar Maple Association	Poletimber Well	3.0	83	141-170	N/A																																																					
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30	6115 - Lowland Ash	Poletimber Well	29.1	86	81-110	N/A	Variable BA within stand. Most of stand is lowland with the only uplands occurring on the edges. Trace amounts of paper birch, white pine and maple. (2018)																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																		
31	6122 - Black Spruce	Poletimber Well	4.8	92	141-170	N/A	Trace amounts of cedar, red maple, and paper birch.																		
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401	3102 - Grass	Nonstocked	0.6		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																		
402	3102 - Grass	Nonstocked	2.8		Unspecified	Managed Opening	OPIC - FMD: OI Stand Year Origin was																		
403	3102 - Grass	Nonstocked	0.9		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																		
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