



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12100

Entry Year 2021

Acreage: 1,508

County Dickinson

Management Area: Groveland

Revision Date: 2019-08-04

Stand Examiner: Rich Goupell

Legal Description:

Township 40N Range 29W Sections 6,7,18
Township 40N Range 30W Sections 1 and 12

Identified Planning Goals:

Maintaining diversity in the hardwood types, while improving quality. keep and maintain the age class diversity in the aspen stands. Maintain the conifer stands.

Soil and topography:

Swampy areas are predominantly Carbondale and Cathro mucks. With Emmet fine sandy loams and rock outcrops.

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

Some private lands around Carney Lake and to the east of the Compartment, a small block of private in the south as well. The West boundary is the power line that runs north south.

Unique Natural Features:

Rock bluffs, Seiberts Creek, and Carney Lake

Archeological, Historical, and Cultural Features:

none

Special Management Designations or Considerations:

Carney Lake State Forest Campground, snowmobile trail

Watershed and Fisheries Considerations:

This compartment contains Seiberts Creek, Carney Lake and two unnamed waterbodies to the north of the compartment. Seiberts Creek is a Type 1 trout stream less than 50' in width. 300' buffers are recommended for these waterbodies 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. For Carney Lake and the other waterbodies, 100' plus 5' per 1% increase in slope; buffers are recommended for all waterbodies in accordance with BMPs.

Wildlife Habitat Considerations:

This compartment is part of the Groveland MA with black bear, blackburnian warbler, northern goshawk, and deer as featured species. This area is considered conditional deeryard with hemlock, cedar, pine and spruce/fir providing functional cover. This compartment contains State Game Fund Purchased parcels. This compartment combines portions of C. 103 with C. 100 with newly delineated boundaries.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located less than miles to the west. There could be some gravel potential within the compartment, but glacial sediments in this area appear to contain significant amounts of clay and bedrock is close to the surface here. Abandoned iron mines around Norway are located three miles to the southwest. There is no known iron ore potential within the compartment, but there may be potential for other metallic minerals. Part of the compartment was previously leased for metallic mineral exploration, and there has been some exploration of potential kimberlite deposits to the northeast. While kimberlites have been documented in the western UP, none have been shown to contain commercial quantities of diamonds or diamonds of high quality. 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:

The main access to the compartment is Carney Lake Road, with several woods roads. Access from the south is through

private lands along the snowmobile trail or Trepanier's fields.

Survey Needs:

Some corners may be needed.

Recreational Facilities and Opportunities:

Carney Lake Campground, snowmobile trail, hunting, fishing, trapping.

Fire Protection:

Norway and Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

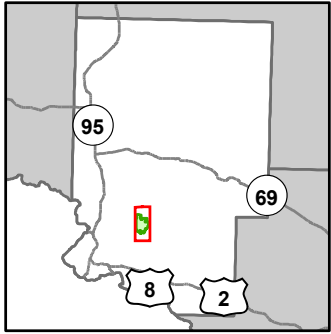
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

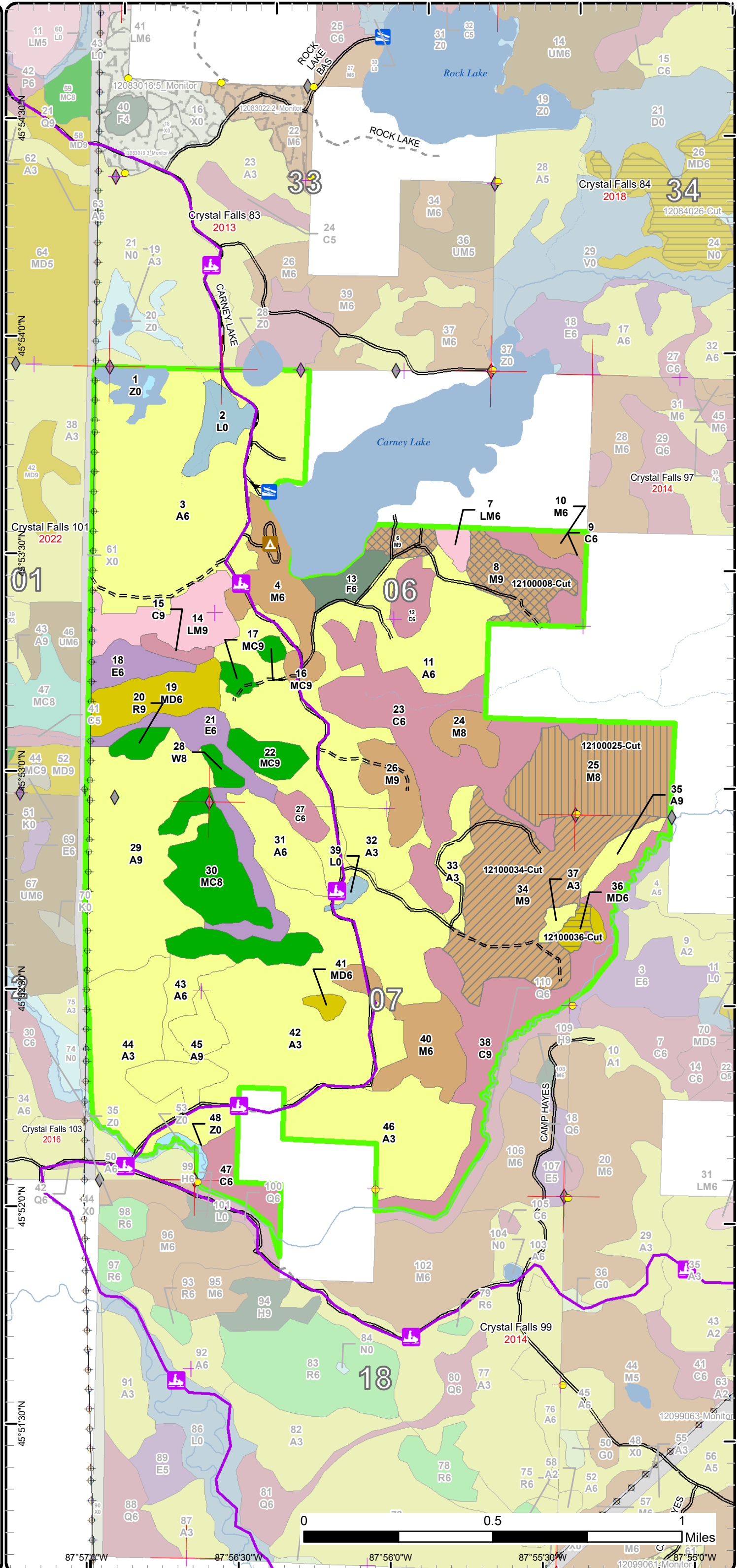
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 100
 T40N, R29W, Sec. 5-8, 18
 T40N, R30W, Sec. 1, 12
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Groveland
 YOE: 2021
 Acres: 1,508 GIS Calculated
 Examiner: Rich Goupell
 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 / County - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Campground
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub

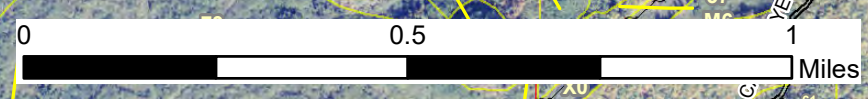
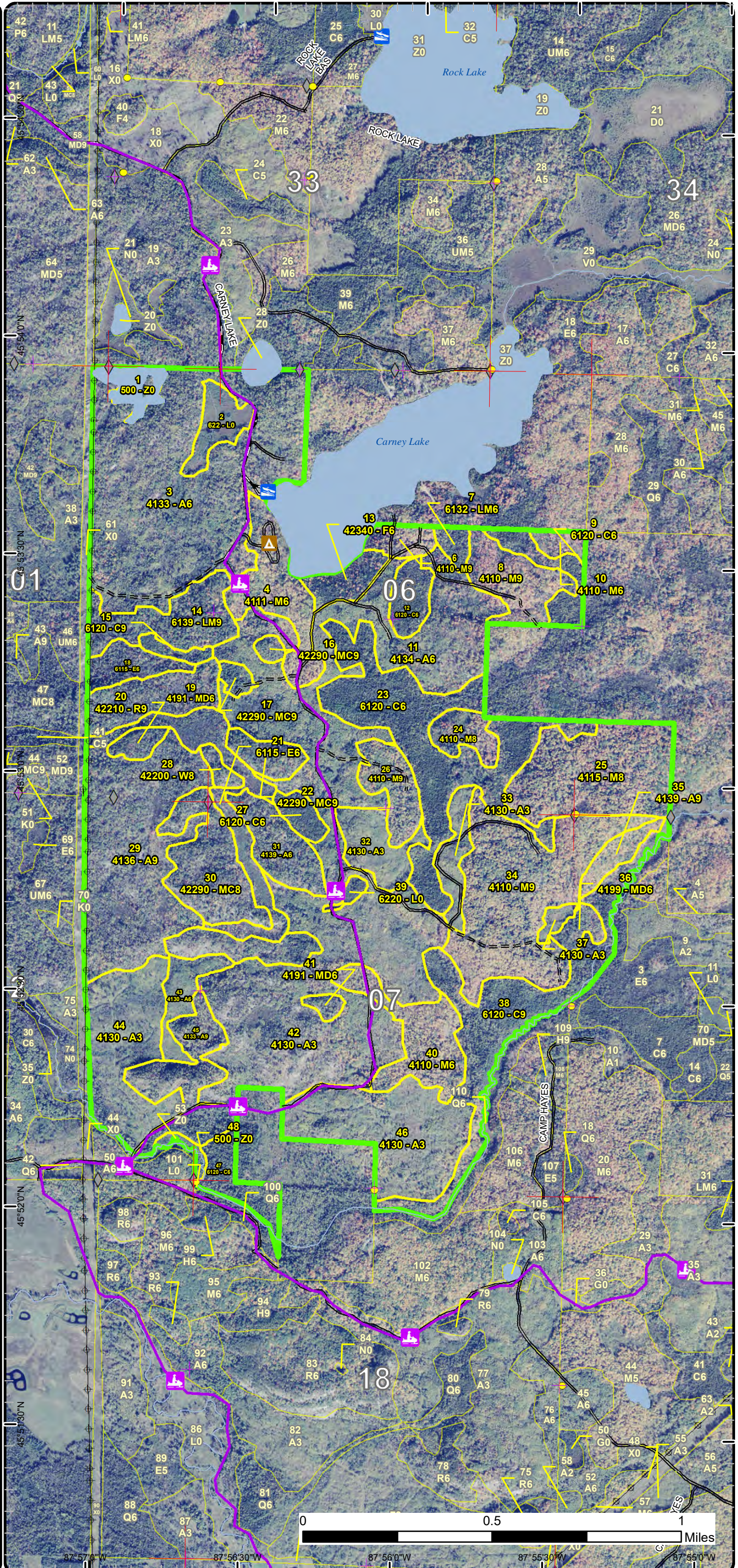


Stand Boundary Map

Compartment: 100
 T40N, R29W, Sec. 5-8, 18
 T40N, R30W, Sec. 1, 12
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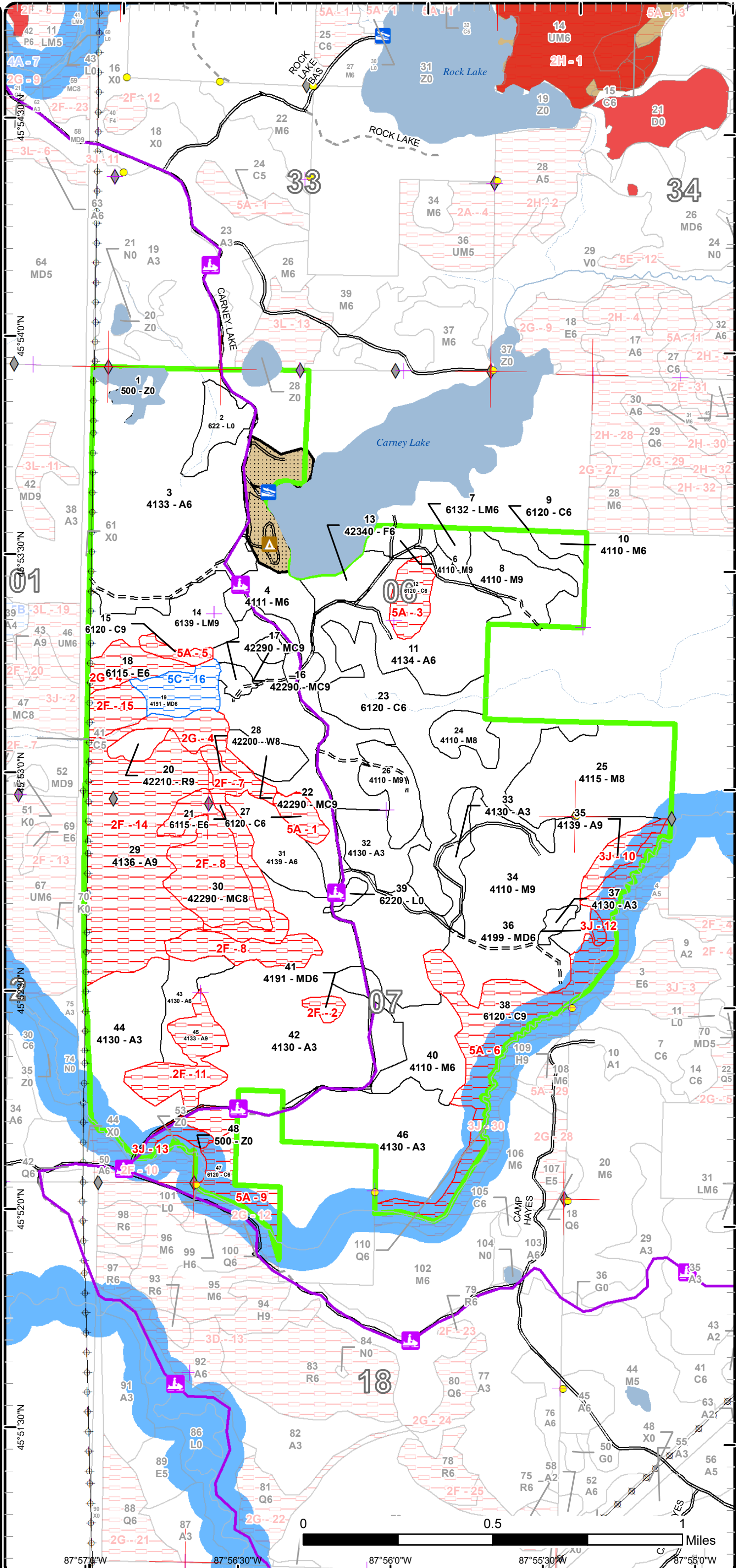
87° 57' 0" W 87° 56' 30" W 87° 56' 0" W 87° 55' 30" W 87° 55' 0" W

Special Conservation Areas & Site Conditions Map

Compartment: 100
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 T40N, R30W, Sec. 1, 12
 County: Dickinson
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- Perennial River
- Lakes and Rivers
- ⚡ Boating Access Site
- ⚡ Campground
- ⚡ Powerline
- ⚡ Compartment Boundary
- ⚡ Available w/ Constraints
- ⚡ Unavailable
- 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)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground



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	0	36	117	171	312	0	0	9	131	0	0	0	0	0	0	0	0	775
Cedar	0	0	0	0	0	0	0	0	0	0	95	23	0	89	0	0	0	0	206
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	33	45
Lowland Mixed Forest	0	0	0	0	0	0	0	0	31	0	0	0	5	0	0	0	0	0	36
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	10	26	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	0	0	0	0	4	0	57	11	0	0	0	0	0	0	0	72
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	34	150	0	0	0	0	0	102	286
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Upland Spruce/Fir	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Total	30	0	36	117	171	324	0	4	54	214	140	173	18	89	0	0	0	141	1508



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Compartment 100
Total Compartment Acres: 1,508

Acres of Harvest

Commercial Harvest - 188
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
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	34	0	0	61	89	0	0	0	184
Total	5	34	0	0	61	89	0	0	0	189

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	189	0	0	0	0	0	0	0	0	189
Next Step	0	0	0	0	0	0	100	0	0	100
Total	189	0	0	0	0	0	100	0	0	288



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:

6	12100006-Cut	8.9	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 80 BA using the complete marking guidelines. Leave Pine, cedar, hemlock and oak if found.</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> northern hardwoods</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>											
8	12100008-Cut	25.1	4110 - Sugar Maple Association	Sawtimber Well	118	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 80 BA using the complete marking guidelines. Leave Pine, Cedar, Hemlock and Oak if found.</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> northern hardwoods</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>											
25	12100025-Cut	60.7	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	107	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Mark to 30 to 40 residual BA. Harvest all trees within one chain of all hemlock, white pine, and red oak. Leave all conifers and Red Oak. Cut all other species using 4 inch DBH spec. Harvest only in summer months with tracked equipment to scarify site to help with regen of conifers.</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> Pine, Hemlock, Ash, Aspen, Maple, Mixed conifers, and Mixed Deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Moving stand away from a low quality northern hardwood stand to a mesic conifer stand. Evidence of hemlock and white pine being established in understory.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
34	12100034-Cut	89.0	4110 - Sugar Maple Association	Sawtimber Well	107	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80 BA using complete marking guidelines. Leave Hemlock, Cedar, White pine, and Red oak if found.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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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
36 12100036-Cut	4.8	4199 - Other Mixed Upland Deciduous	Poletimber Well	77	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all species using a 2 inch dbh spec leaving cedar, hemlock oak and pine. Buffer sieberts creek 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, Maple, mixed conifers, and mixed deciduous</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 Acreage Proposed: 188.5

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 100

Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions							
					5C	2F	2G	2H	3J	3L	5A	
776	636	0	140	Aspen		126				14	0	0
207	103	0	104	Cedar			0			0		104
45	0	0	45	Lowland Deciduous		0	45					0
36	36	0	0	Lowland Mixed Forest								0
16	16	0	0	Lowland Shrub								
35	5	15	16	Mixed Upland Deciduous	15	14				2		0
71	18	0	54	Natural Mixed Pines		54						
285	285	0	0	Northern Hardwood				0	0			0
6	6	0	0	Red Pine								
12	12	0	0	Upland Spruce/Fir								
14	14	0	0	Water		0			0			0
4	0	0	4	White Pine		4						
1,508	1,130	15	364	Total Forested Acres	15	198	45	0	15	0		104
	75%	1%	24%	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	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5A: Not able to obtain desirable regeneration	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Compartment: 100

Year of Entry: 2021



4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5A: Not able to obtain desirable regeneration	65	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5A: Not able to obtain desirable regeneration	16	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 100

Year of Entry: 2021



10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Buffer to sieberts creek, some acreage available for future management.							
11	Unavailable	2F: Too steep	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: buffer to seiberts creek							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer to Seiberts creek							
14	Unavailable	2F: Too steep	97	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 100

Year of Entry: 2021



16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	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
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	500 - Water	Nonstocked	11.2		Unspecified	No	OPIC - FMD: TOM'S LAKE.																																														
2	622 - Lowland Shrub	Nonstocked	13.5		Unspecified	No																																															
3	4133 - Aspen, Mixed Pine	Poletimber Well	165.5	41	Unspecified	N/A	Carney lake boat launch and swim area within stand. Red and white pine pocket along power line. North of swimming area is lowland tag.																																														
<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>Bigtooth Aspen</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Pole</td> <td>7</td> <td>41</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	15	Pole	7		Quaking Aspen	25	Pole	7	41	White Pine	10	XLog/Log	18		Red Maple	15	Pole	7		Red Pine	15	Log/XLog	16		<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>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Pine	Low	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling	Red Oak	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																	
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Balsam Fir	Medium	Variable	Sapling																																																		
Red Oak	Low	< 5 feet	Sapling																																																		
4	4111 - S.Maple, Hard Mast Association	Poletimber Well	34.1	90	81-110	N/A	Carney Lake campground is located in the stand.																																														
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7	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.0	117	81-110	N/A	some wind throw in stand																																														
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8	4110 - Sugar Maple Association	Sawtimber Well	25.1	118	111-140	N/A	Drain runs through north part of stand connecting the two cedar stands. North of the drain is younger and less volume. Scattered red oak through out stand. Q aspen regen just north of drain.																																														
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11	4134 - Aspen, Spruce/Fir	Poletimber Well	124.7	40	Unspecified	N/A	OPIC - FMD: OI Stand Year Origin was 1980. Red oak and Pine left when aspen was cut.																																																													
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16	42290 - Natural Mixed Pine	Sawtimber Well	2.8	82	111-140	N/A	Stand is on top of a rock but should be able to be accessed from the east.																																																								
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18	6115 - Lowland Ash	Poletimber Well	12.9	110	Unspecified	N/A	Several bed and banks flowing through the stand. W spruce is falling out of the 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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19 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 25.6 83 111-140 N/A Steep on the north and south sides of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole/Sap	10		Balsam Fir	Medium	< 5 feet	Sapling
Paper Birch	10	Pole	8		White Spruce	Medium	Variable	Sapling
Red Maple	55	Pole/Log	8	83	White Pine	Medium	Variable	Sapling
Quaking Aspen	7	Log/Pole	10		Hazelnut (Spp.)	High	< 5 feet	Tall Shrub
Bigtooth Aspen	8	Log/Pole	10		Red Pine	Medium	Variable	Sapling
Red Pine	10	Log/Pole/Sap	10					

20 42210 - Natural Red Pine Sawtimber Well 5.9 78 81-110 N/A 20 foot rock knobs with stubby pines on top. The rest of the stand has a mix of sizes .

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85	Log/Pole/XLog	12	78	White Pine	Medium	Variable	Sapling
					Red Oak	Low	Variable	Sapling

21 6115 - Lowland Ash Poletimber Well 32.5 121 Unspecified N/A more tag alder in the south part of the stand

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	80	Log/Pole	10	121	White Spruce	Low	Variable	Sapling
Northern White Cedar	6	Pole	6		Balsam Fir	Low	Variable	Sapling
Red Maple	7	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub

22 42290 - Natural Mixed Pine Sawtimber Well 10.8 98 51-80 N/A on top of a rock very steep might be able to access the stand from the east

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	45	Log/XLog/Pole	14	98	Balsam Fir	Medium	Variable	Sapling
White Pine	30	Log/XLog	14					

23 6120 - Lowland Cedar Poletimber Well 89.4 122 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	85	Log/Pole	10	122
Tamarack	7	Pole	9	

24 4110 - Sugar Maple Association Sawtimber Medium 11.6 87 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	7	Log/XLog	14		Balsam Fir	Low	Variable	Sapling
Sugar Maple	40	Log/Pole/Sap	11	87	White Spruce	Low	Variable	Sapling
Basswood	30	Log/Pole	11		White Pine	Low	Variable	Sapling
White Ash	20	Log/Pole	10		Ironwood	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
25	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	60.7	107	81-110	N/A	Some hemlock and white pine saplings present. A few wet areas with a drain running from south to north cutting stand in half.																																																			
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26	4110 - Sugar Maple Association	Sawtimber Well	18.0	113	81-110	N/A	This stand was thinned in 2004.																																																			
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27	6120 - Lowland Cedar	Poletimber Well	7.3	109	141-170	N/A																																																				
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28	42200 - Natural White Pine	Sawtimber Medium	4.1	79	51-80	N/A	on top of a rock, evidence of a fire																																																			
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29	4136 - Aspen, Mixed Conifer	Sawtimber Well	96.6	81	81-110	N/A	Ash swale in stand with a bed bank running through it. If cut this will have to be excluded as well as some steep rock areas. this can be used as the retention.																																																			
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31	4139 - Aspen, Mixed Deciduous	Poletimber Well	22.0	47	51-80	N/A																																										
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32	4130 - Aspen	Sapling Well	19.3	15	Immature	N/A	OPIC - FMD: This stand was harvested in 2005.																																									
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34	4110 - Sugar Maple Association	Sawtimber Well	89.0	107	111-140	N/A	Drain runs through stand from E type to E type in the north. Hemlock pocket on east side of stand. Combined three stand together. North part of stand was thinned in 2004 and the south part in 2005																																									
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35	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.1	77	Unspecified	N/A	Most of stand slopes into E-type to the south. Aspen starting to fall out of stand.																																									
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36	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.5	77	111-140	N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
38	6120 - Lowland Cedar	Sawtimber Well	65.3	98	81-110	N/A	This stand is the corridor along Siebert's Creek. It has several small E types along the length of the stand. Most of the Black Ash and Elm are along the creek and in the north part of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		75	Pole/Log	8	98	Tag Alder		Low	5 - 10 feet	Tall Shrub
Black Ash		8	Pole	7						
39	6220 - Alder/willow	Nonstocked	2.6		Unspecified	No	Mostly dead cedar with tag alder and willow coming in. There is some life 4 inch cedar left in northern part of stand.			
40	4110 - Sugar Maple Association	Poletimber Well	31.8	99	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		45	Log/Pole/Sap	11	99	Ironwood		High	Variable	Sapling
Basswood		35	Log/Pole	12		Sugar Maple		Low	Variable	Sapling
White Ash		20	Log/Pole/Sap	11		White Ash	Low	Variable	Sapling	
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.2	72	51-80	N/A	Stand is growing on top of a steep rock access would be limited. There is a vernal pond in the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine		10	Log/Pole/XLog	16	79	Quaking Aspen	Low	Variable	Sapling	
Red Maple		45	Pole/Log/Sap	9	72	Balsam Fir	Low	Variable	Sapling	
Quaking Aspen		10	Log/Pole	11		White Spruce	Low	Variable	Sapling	
Balsam Fir		10	Pole/Sapling	6		Red Maple	Low	Variable	Sapling	
White Spruce		10	Pole/Sapling	6						
42	4130 - Aspen	Sapling Well	156.8	31	Immature	N/A	Many rock bluffs with hardwoods and pine on the tops are scattered through this stand. Two acre tag alder, red maple and yellow birch in stand west of stand 15.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Sapling/Pole	4	31	Hazelnut (Spp.)		Medium	< 5 feet	Tall Shrub
						Sugar Maple		Low	Variable	Sapling
						Balsam Fir		Medium	Variable	Sapling
						White Ash	Low	Variable	Sapling	
						Tag Alder	Low	5 - 10 feet	Tall Shrub	
43	4130 - Aspen	Poletimber Well	13.7	36	Unspecified	N/A	trace of black ash in stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen		100	Pole	6	36	Hazelnut (Spp.)	High	Variable	Tall Shrub	
44	4130 - Aspen	Sapling Well	53.1	24	Immature	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		80	Sapling	3	24	Balsam Fir		Low	Variable	Sapling
Black Ash		10	Sapling	3		Tag Alder	Low	Variable	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
45	4133 - Aspen, Mixed Pine	Sawtimber Well	34.4	81	Unspecified	N/A	Access is limited due to rock outcrops in the north. wetter in the south half																																																
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46	4130 - Aspen	Sapling Well	63.5	29	Immature	N/A	OPIC - FMD: OI Stand Year Origin was 1994																																																
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47	6120 - Lowland Cedar	Poletimber Well	15.6	92	171-200	N/A	Trace of sugar and red maple. Quaking aspen, Maple pocket in SE corner of stand along private.																																																
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