



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12117

Entry Year 2028

Acreage: 901

County: Iron

Management Area: Way Dam Complex

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**Stand Examiner:** Eric Brolin

## Legal Description:

T45N R32W sections 12, 24, 25

## Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the accessible aspen age class acres. Continue moving the hardwood stands towards regulation. Protect the riparian areas and transition zones during management activity.

## Soil and topography:

Soils are generally silt loam areas with components of very fine sandy loams. The lowground areas consist of mucks and ponded histol soils. Rock outcrop complexes are included throughout. The topography consists mainly of flat to gently rolling. The north block of the compartment has small isolated areas of steep hills leading down to the Fence River.

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

The compartment is mainly contiguous state ownership in two blocks. There is one private 40 acre inholding in the southern portion of the compartment. Large blocks of industrial private forest border the compartment. Active forest management has occurred and will continue within and surrounding the compartment.

## Unique Natural Features:

none identified

## Archeological, Historical, and Cultural Features:

none identified

## Special Management Designations or Considerations:

none identified

## Watershed and Fisheries Considerations:

This compartment contains McCutcheon Creek and eastern region of this compartment borders Margeson Creek. This compartment also contains several unnamed inland waterbodies. McCutcheon Creek and Margeson Creek are both designated Type 1 trout streams less than 50 feet wide and have predicted mean July water temperatures that range from 60.8 to 62.9°F (cold streams). For areas susceptible to Aspen regeneration, 300-foot riparian management zones are recommended. For areas not susceptible to Aspen regeneration, a minimum 100 foot, plus 5 feet per 1 percent increase in slope, riparian management zone is recommended to protect riparian areas in accordance with best management practices. The unnamed inland waterbodies are natural inland lakes. A minimum 100 foot, plus 5 feet per 1 percent increase in slope, riparian management zone is recommended for these waterbodies to protect inland lake resources in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

Species diversity and limited access provide a vast amount of life requisites for a variety of wildlife species. Featured species include: black bear, pileated woodpecker, northern goshawk, ruffed grouse, and white-tailed deer. Compartment includes state game fund lands and deer wintering complexes.

## Mineral Resource and Development Concerns and/or Restrictions

The nearest known active sand & gravel mining operation is less than two miles east of the compartment, but the compartment appears to be dominated by wetlands, which would inhibit sand & gravel development. In addition, the compartment might be too far from populated areas (markets) for any aggregates present to have much economic value beyond use by the county road commission or DNR for local road maintenance. No ground-based metallic mineral exploration is known to have occurred within the compartment, but considerable iron ore test drilling has occurred to the south and east. The abandoned iron mines of the Iron Mountain district are more than one mile southwest of the compartment. There are active metallic mineral leases involving State-owned mineral rights within one mile of the

compartment, but potential for the occurrence economic deposits of metallic or critical materials within compartment is considered low at this time. There is no potential for economic oil and gas production in the UP. The State does not own all the 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:**

Little to none. Large expanses of ponded water prohibit vehicle access in most areas. The Deerfoot Lodge Roads runs through the south eastern portion of the compartment.

**Survey Needs:**

T45N R 32W S1/16 section 25

**Recreational Facilities and Opportunities:**

none

**Fire Protection:**

Due to the ponded water of the area and the fuel types this compartment is generally not prone to fire starts. Equipment access into the interior would be extremely limited. Fuels are generally aspen and hardwood types.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

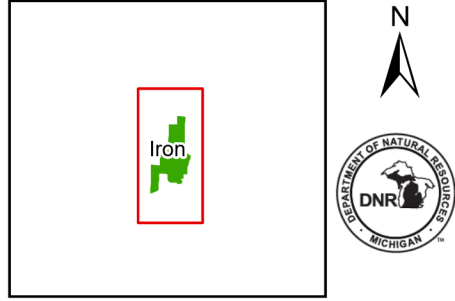
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

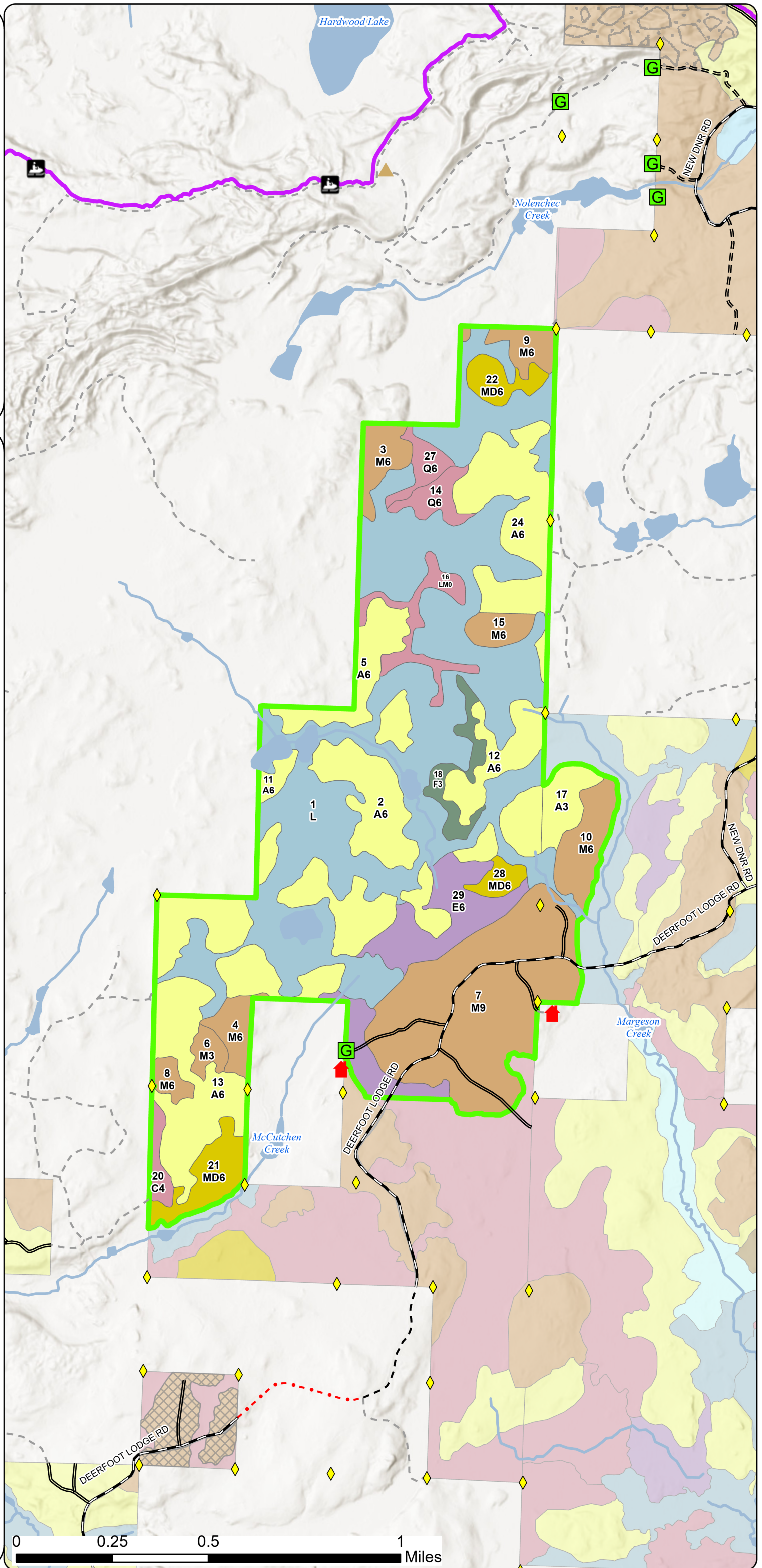
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

### Cover Type & Treatments Map

Compartment: 12117  
 T45N R32W Sec. 24, 25, 36  
 County: Iron  
 Unit: Crystal Falls  
 Mgmt. Area: Way Dam Complex  
 YOE: 2028  
 Acres: 901.14 GIS Calculated  
 Examiner: Eric Brolin  
 Date Exported: 04/24/2026  
 Map Phase: Web Post

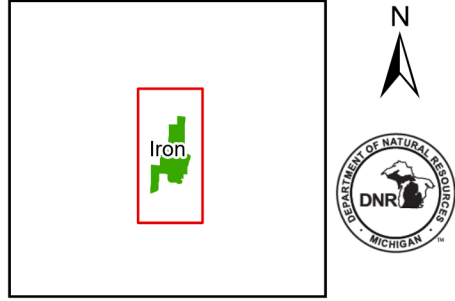


- Survey Grade Corners
- Cabin
- Berm
- Gate
- Designated Snowmobile
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- 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
- 622 - Lowland Shrub

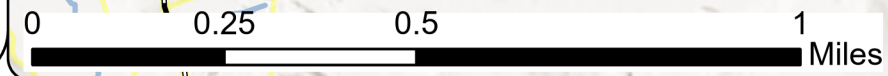
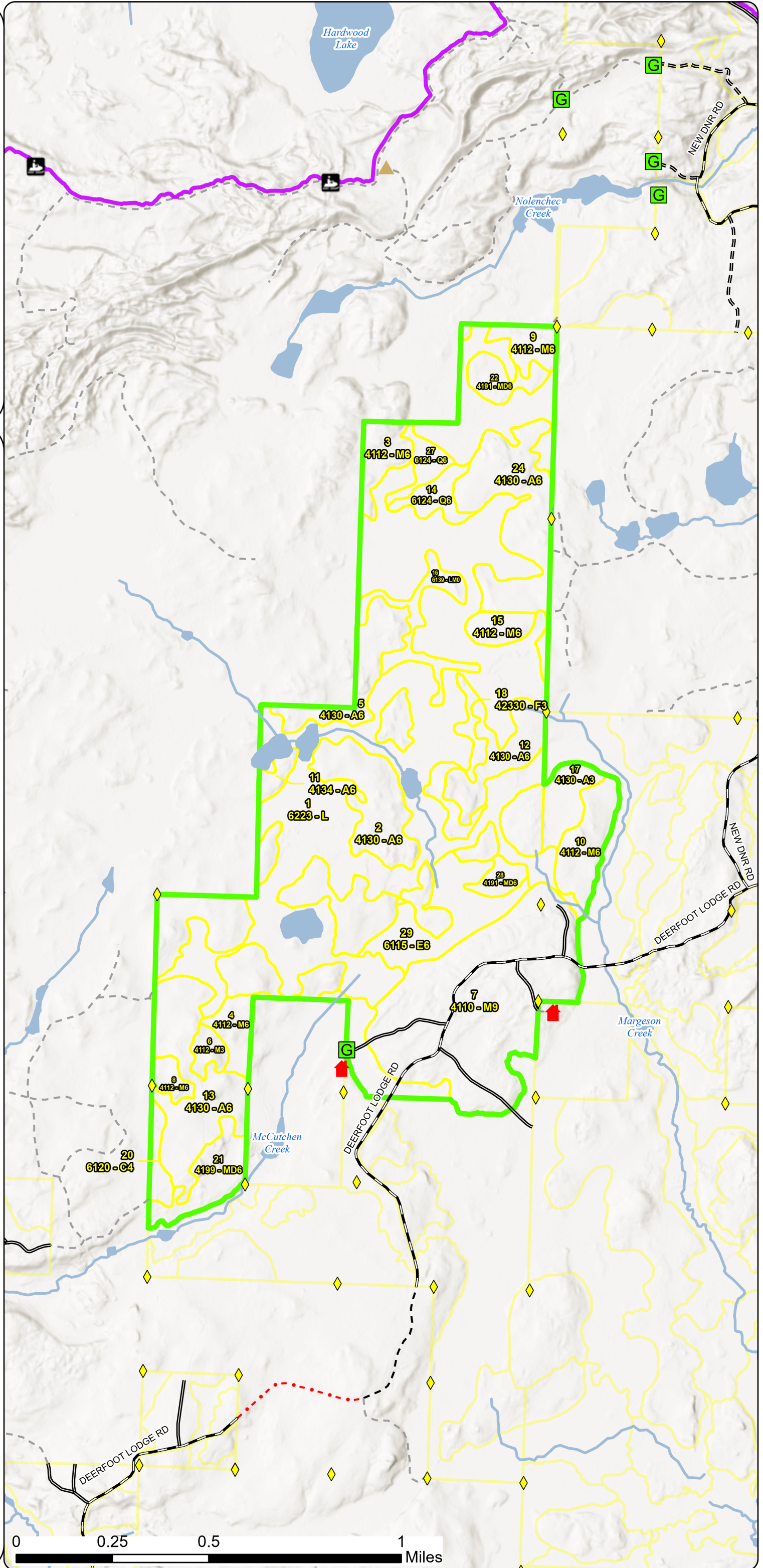


# Stand Boundary Map

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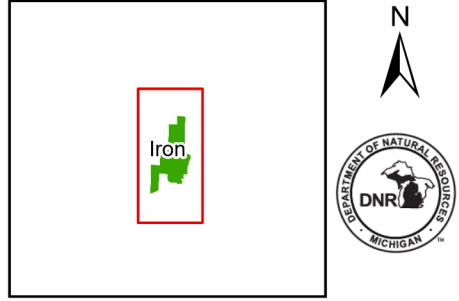


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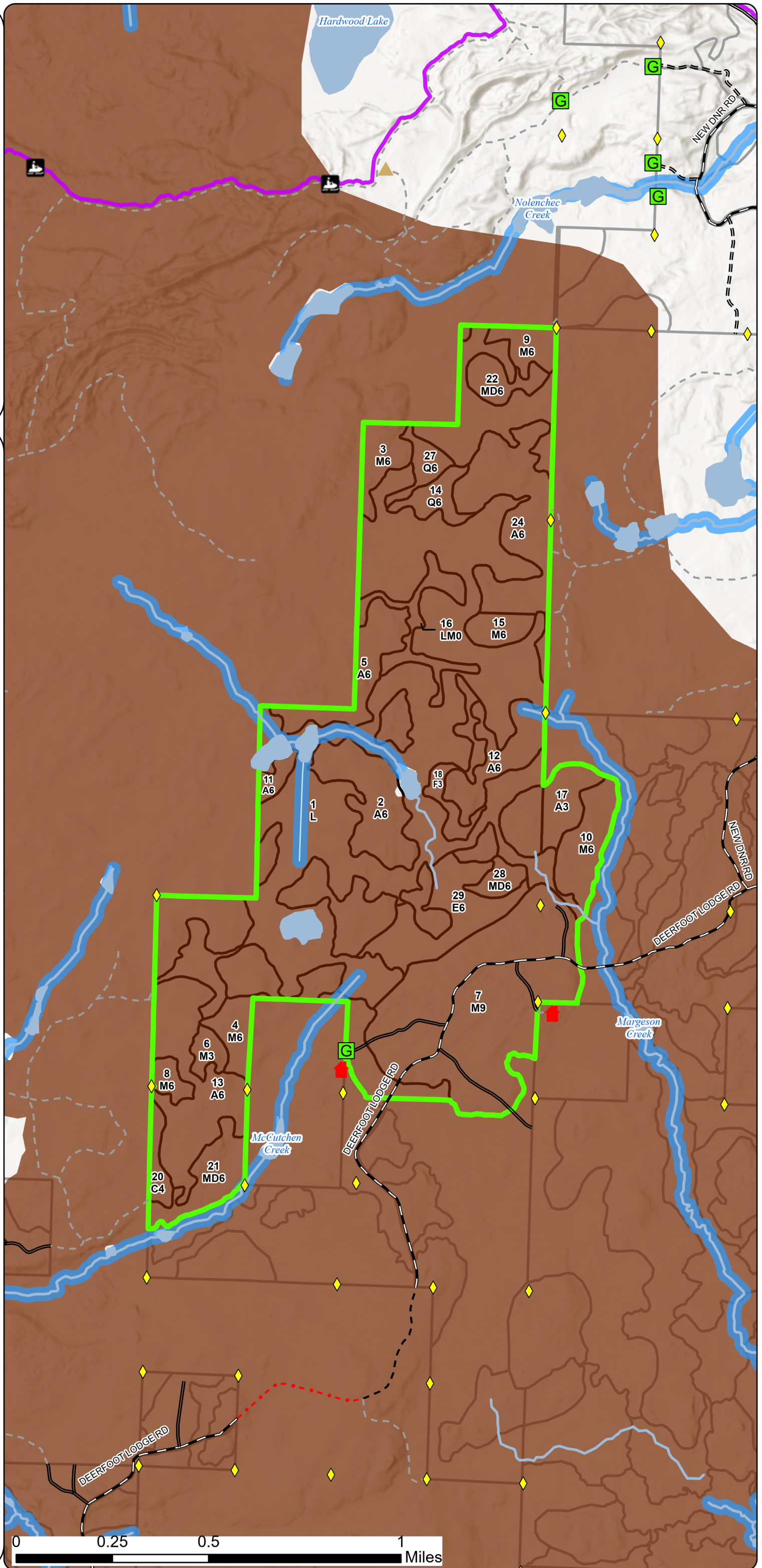


### Special Conservation Areas & Site Conditions Map

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- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- 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	0	0	13	253	9	0	0	0	0	0	0	0	0	0	0	0	0	274
Cedar	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	9	0	0	0	8	0	0	0	0	0	0	0	0	0	17
Lowland Deciduous	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	48
Lowland Mixed Forest	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Shrub	297	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	297
Mixed Upland Deciduous	0	0	0	0	19	0	0	0	16	0	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	6	0	0	0	68	0	0	0	0	0	0	0	0	122	196
Upland Spruce/Fir	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>313</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>299</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>122</b>	<b>902</b>



## Report 2 – Treatment Summary

**Crystal Falls Mgt. Unit**  
**Year of Entry: 2028**

### Acres of Harvest

**Compartment 117**  
**Total Compartment Acres: 901**

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Commercial Harvest -  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

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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

Total Treatment  
Acreage Proposed: 0

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Eric Brolin : Examiner

Compartment: 117  
Year of Entry: 2028



### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
223	175	12	37
7	7	0	0
17	9	8	0
48	48	0	0
16	0	5	11
297	297	0	0
34	19	16	0
80	50	23	7
12	12	0	0
733	616	62	55
	84%	8%	8%

### Dominant Site Conditions

	Dominant Site Conditions			
	2B	5C	2G	2H 3J
Aspen		12		28 9
Cedar				
Lowland Conifers	8			
Lowland Deciduous				
Lowland Mixed Forest		5	11	
Lowland Shrub				
Mixed Upland Deciduous		16		
Northern Hardwood	13	11	7	
Upland Spruce/Fir				
Total Forested Acres	20	42	18	28 9
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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas that were not harvested in the past, late 80's.							
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	9	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
<b>Comments:</b> Peninsulas cut off by beaver floodings and difficult private access requiring extensive new road construction across private.							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 117

Year of Entry: 2028



3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unmanaged patch that was not harvested in the late 80's with adjacent stands. Difficult frozen access from the SE. Delay treatment until adjacent aspen to the north is ready to be managed.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area managed in the late 1980's. Expanded beaver floodings have made this area unmanageable. Possibly merge with adjacent flooded lowland in the future.							
6	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Patch containing a small bog with surrounding low ground and mixed conifer/hemlock.							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area managed in the late 1980's. Expanded beaver floodings have made the south area unmanageable. This conifer patch may be able to be accessed and managed from the east in the future with adjacent stands.							
8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	28	3J: Water quality/BMPs (stream, river, or lake)	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified
<b>Comments:</b> Access from the north/west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the south/east is cut off by beaver floodings and lowland alder and/or standing water							



9	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Access from the west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the east across lowland conifer and young aspen may be possible when/if adjacent stands are managed in the future.</p>							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Access from the west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the east across young aspen may be possible when adjacent stands are managed in the future.</p>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Small, difficult to reach area. Delay possible management until adjacent areas are managed in the future.</p>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Small, difficult to reach area. Delay possible management until adjacent areas are managed in the future.</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Comments</b>				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
1	6223 - Inundated Shrub Swamp	None	297.0			No	Large web of flooded lowland. This area is full of flowing waterways and beaver dams. Contains areas of open water, dense alder flats, black ash swales, and some lowland conifer.																																																																						
2	4130 - Aspen	Poletimber Well	63.3	38	51-80	N/A	Possible frozen access from SE across black ash, form Stand 7. Did not access area. Species/size estimated from adjacent similar stands.																																																																						
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3	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.5	72	111-140	N/A	Dense hardwoods. Fir near the edges and more in the south half of the stand. Access from the west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the east across lowland conifer and young aspen may be possible when/if adjacent stands are managed in the future.																																																																						
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5	4130 - Aspen	Poletimber Well	28.1	38	51-80	N/A	Two separate aspen patches. Access from the north/west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the south/east is cut off by beaver floodings and lowland alder and/or standing water. Stand species updated from adjacent aspen stands observed and imagery.																																																																						
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<b>6</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	5.7	39	1-50	N/A	Young hardwood stand.																																																																																																					
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<b>7</b>	4110 - Sugar Maple Association	Sawtimber Well	122.4	75	81-110	N/A	Good quality hardwood stand heavy to sugar maple. Larger maple diameters in the SW half, NE half contains more small sawlog to larger pole sized trees. A diverse mix of hardwood saplings across the stand but at low density. denser saplings in canopy gaps consist mostly of black cherry with some gaps being quite dense with elderberry shrub. A few small patches of spruce fir with pole sized conifer. A small bog area in the south contains some hemlock, cedar, and mixed conifer. Also some small vernal depressions within that may have to be excluded or marked around during future management. 80 100 130 70 Average of 95 BA.																																																																																																					
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<b>8</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.4	73	81-110	N/A	Small hardwood stand, moderate quality at best. A bit denser stocking around some edges otherwise sparser canopy interior. Conifer and hardwood saplings can be dense in areas with lighter canopy.																																																																																																					
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<b>9</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.5	70	141-170	N/A	Poor to moderate quality hardwood. The east half is dense to maple poles with a fairly open understory. Stand has been unmanaged for a long time and has a lot of poor quality. The west half has larger scattered mixed maple with a dense understory of hardwood saplings, heavy to sugar maple. This area can be accessed from the NE corner on a built up roadbed that crosses a narrow lower area, this is grown in with mature conifer and hardwood.																																																																																																					
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<b>10</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.0	75	51-80	N/A	Mature maple is more sparse. Very dense understory of mixed hardwood saplings, well established. Areas with a bit higher elevation in the north/central show better hardwood quality. Stand appears to have been group selected, leaving a minor residual in lower quality areas and higher residual in better quality timber.																																																																						
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<b>11</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	8.5	40	51-80	N/A	Aspen peninsulas cut off by beaver floodings and/or extensive road construction across private and difficult ground. These pieces can not be managed. Stand inventory carried over and updated from past inventory.																																																																						
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<b>12</b>	4130 - Aspen	Poletimber Well	35.3	38	51-80	N/A	Three separate patches of aspen. These are upland sites and contain good quality aspen. Areas across the stand are dense with fir poles / larger saplings, mainly in the understory. Areas without fir are very dense to red maple saplings - small pole size. The south half of the SE chunk contains a bit more saturated ground with no aspen and contains more hardwood sapling to pole sized trees. The best access to this area would be from the SE road system. This would require freezing saturated ground for access and/or temporary drainage culverts for waterways.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
<b>13</b>	4130 - Aspen	Poletimber Well	76.9	38	81-110	N/A	Aspen pole stand. Very diverse mix of minor species with well established hardwood sapling understory. Any merchantable spruce/fir is underneath the deciduous canopy. Understory patches across the stand are densely stocked with conifer. Areas without conifer are dominated by maple saplings. Understory of sugar maple saplings are more dominant around slight elevation rises, mainly in the central area, otherwise red maple is more dominant, 20'-30'+ tall. Small patches of larger diameter bigtooth, otherwise dominated by quaking aspen. Aspen diameter decreases slightly with less elevation around the edges. Red oak is sparse but scattered across most areas, pole/small log sized with a few very large diameter trees found. Access into this area would be from the NW through an old grown in road system.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		2	Log/Pole/Sap	11		Red Maple		High	>20 feet	>20 feet	
Red Maple		5	Pole/Sap/Log	6		Paper Birch		Low	>20 feet	>20 feet	
Yellow Birch		2	Pole/Sapling	5		Balsam Fir		Medium	Variable	Variable	
Red Oak		3	Pole/Sap/Log	8		Balsam Fir		Medium	Variable	Variable	
Paper Birch		7	Pole/Sap/Log	7		Red Oak		Low	>20 feet	>20 feet	
Quaking Aspen		68	Pole/Sapling	7	38	Sugar Maple		Medium	>20 feet	>20 feet	
Bigtooth Aspen		5	Pole/Log	8		White Spruce		Low	Variable	Variable	
Balsam Poplar		2	Pole	8		White Pine		Trace	Variable	Variable	
Balsam Fir		2	Pole/Sap/Log	7							
Black Spruce		2	Pole/Sapling	5							
Black Cherry		2	Pole/Sapling	7							
<b>14</b>	6124 - Lowland Spruce-Fir	Poletimber Well	9.2	38	51-80	N/A		Area managed in the late 80's dense to conifer. Lower ground than the adjacent aspen stand. west half appears more flooded with tamarack and may not be manageable in the future with expanding beaver floodings.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6		Balsam Fir			High	Variable	Variable
Quaking Aspen		15	Pole/Sapling	6	38						
Balsam Fir		35	Pole/Sapling	5	38						
Black Spruce		15	Sapling/Pole	4							
Tamarack		25	Pole/Sapling	7							
<b>15</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.3	70	81-110	N/A	Maple pole stand. More dense to red maple in the SW, more sugar maple in the NE. Areas with lighter stocking mature maple have canopy openings with dense sugar maple regeneration. Transition to lower ground along the west and south edge contain more conifer, heavy to fir poles.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		40	Pole/Log/Sap	9	70	Red Maple		Low	Variable	Variable	
Red Maple		40	Pole/Log/Sap	8		Sugar Maple		Medium	Variable	Variable	
Yellow Birch		2	Pole/Sapling	7		Black Ash		Medium	Variable	Variable	
Paper Birch		3	Log/Pole	12		Balsam Fir		Medium	Variable	Variable	
Balsam Fir		10	Pole/Sapling	6							
White Spruce		3	Log/Pole	12							
Black Cherry		2	Log	11							
<b>16</b>	6139 - Mixed Lowland Forest	Unspecified	15.6	39			Small web of lowland that was harvested in the late 80's. Old roads to access appear to have turned into streambeds. Additional beaver dams have expanded flooded ground. Patchy black ash and tamarack in the south, small drier patch of conifer in the north. The north patch may be accessible from the east when adjacent aspen is managed in the future.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
17	4130 - Aspen	Sapling Well	13.3	27	51-80	N/A	Scattered mature mixed hardwood in the north otherwise dominated by young aspen, near pole sized trees. Mixed hardwood saplings are dense in most areas. Areas in the south have wet ground and more conifer, may have to be excluded from future management.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		5	Log/Pole/Sap	10		Red Maple		
Red Maple		5	Log/Pole/Sap	10		Balsam Fir		
Yellow Birch		5	Pole/Sap/Log	8		Paper Birch		
Paper Birch		10	Pole/Sap/Log	7		Sugar Maple		
Quaking Aspen		65	Sapling/Pole	4	27			
Balsam Fir		10	Sapling/Pole	4				
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
18	42330 - Upland Fir	Sapling Well	11.8	38	1-50	N/A	Transition to lower ground with elevated humps across the area. Mature cedar in patches mainly in the north. Mostly dense fir, small pole to large sapling size with scattered white birch.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		10	Pole/Sapling	6		Red Maple		
Quaking Aspen		5	Pole/Sapling	7	38			
Balsam Fir		60	Pole/Sapling	6	38			
Black Spruce		15	Pole/Sapling	7				
Northern White Cedar		10	Log/Pole	12				
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
20	6120 - Lowland Cedar	Poletimber Poor	6.6	100	1-50	N/A	Beaver dam backed up wet ground with some alder and cedar.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		15	Pole/Sap/Log	7		Alder		
Balsam Fir		20	Pole/Sapling	7				
Northern White Cedar		50	Log/Pole	11	100			
Black Ash		15	Pole/Sapling	7				
						<b>Density</b>		
						<b>Avg. Height</b>		
						<b>Size</b>		
21	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.6	39	51-80	N/A	Stand was broken out from adjacent aspen due to more of a hardwood component. Veins and patches dense to aspen poles with other areas growing more mixed hardwood species. A lot of understory is dense with spruce/fir sapling - pole size. Access from the SW/S/SE is cut off by beaver dam floodings, lowland marsh, and/or rock bluff. Management access would have to be from the north via old grown in road system.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Sugar Maple		14	Pole/Sapling	5		Balsam Fir		
Red Maple		16	Pole/Sapling	6		Red Oak		
Red Oak		8	Pole/Log/XLog	9		White Spruce		
Paper Birch		19	Pole/Sapling	6		Red Maple		
Quaking Aspen		38	Pole/Sapling	7	39	Paper Birch		
Balsam Fir		5	Pole/Sapling	6		Sugar Maple		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 10.2 70 111-140 N/A

Manageable ground with some lower areas heavy to conifer. Access from the NE, grown in built up roadbed across narrow patch of lower ground.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log/Sap	8	70
Red Maple	10	Log/Pole/XLog	10	
Yellow Birch	1	XLog	22	
Paper Birch	30	Log/Pole	11	70
Balsam Fir	30	Pole/Sapling	7	
White Spruce	3	Log/Pole	12	
Black Spruce	5	Pole	8	
Northern White Cedar	1	Log	15	
Black Cherry	10	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Yellow Birch	Low	Variable	Variable
Black Cherry	Low	Variable	Variable
Sugar Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable

**24** 4130 - Aspen Poletimber Well 49.1 38 51-80 N/A

Did not fully access the north half of this stand. Patches more dense to aspen poles. Some areas contain less aspen and more openings/fir. Other patches without aspen are growing in well with mixed hardwood saplings and small pole sized cherry. Any dense aspen stocking areas have a very dense understory of maple saplings, heavy to sugar maple. Hardwood saplings and poles show good sign of better quality. Access from a grown in road mapped in the SE corner. Access up into the north area is possible with old grown in roads and/or new road construction.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	7	Pole/Sap/Log	6	
Red Maple	8	Pole/Sap/Log	6	
Quaking Aspen	70	Pole/Sapling	7	38
Balsam Poplar	2	Pole/Sapling	7	
Balsam Fir	5	Pole/Sapling	6	
White Spruce	2	Pole/Sapling	6	
White Pine	1	XLog	26	
Black Cherry	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
White Spruce	Low	Variable	Variable
Paper Birch	Low	>20 feet	>20 feet
Black Cherry	Medium	>20 feet	>20 feet
Red Maple	Medium	>20 feet	>20 feet
Sugar Maple	Medium	>20 feet	>20 feet
Balsam Fir	Medium	Variable	Variable

**27** 6124 - Lowland Spruce-Fir Poletimber Well 7.5 72 81-110 N/A

Appears to be manageable lowland stand heavy to conifer. Possible connection for management access out the east. Access from the west is very difficult - Extensive haul, narrow/inoperable roads, multiple private landowners, locked gates, and low areas. Access from the east across young aspen may be possible when adjacent stands are managed in the future, gain access to the adjacent west hardwood stand. Species/size estimated from adjacent stands and/or imagery.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	7	
Paper Birch	18	Pole/Sapling	7	
Balsam Fir	30	Pole/Sapling	7	
Black Spruce	40	Pole/Sapling	7	72
Northern White Cedar	2	Pole	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 6.1 78 81-110 N/A

Mostly upland site with some lower edges. This stand was not managed in the past with everything else in the late 80's. Black spruce cored at about 78 years old. Red maple had 71 from past inventory. Birch is the more dominant species but ranges from sapling-pole-log sized trees across the area. Access from the SE road system and delay management until adjacent aspen to the north is managed.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log/Sap	8	71
Yellow Birch	2	Log	11	
Paper Birch	30	Pole/Sap/Log	8	78
Quaking Aspen	18	Log	14	
Balsam Fir	10	Pole/Sapling	6	
White Spruce	2	Log	12	
Black Spruce	20	Pole	8	78
Northern White Cedar	4	Pole/Log	9	
Tamarack	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Variable
Balsam Fir	Low	Variable	Variable
Red Maple	High	Variable	Variable

**29** 6115 - Lowland Ash Poletimber Well 48.3 71 51-80 N/A

Flooded flat of lowland conifer and black ash with numerous waterways and drainages across the area.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	71
Yellow Birch	2	Pole/Log	9	
Quaking Aspen	3	Log	16	
Balsam Fir	2	Pole	8	64
White Spruce	5	Log	12	
Black Spruce	5	Pole/Sapling	7	
Northern White Cedar	1	Log/Pole	12	
Hemlock	2	Log/Pole	13	
Black Ash	75	Pole/Sap/Log	7	71

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Black Ash	Medium	Variable	Variable