



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12117

Entry Year 2028

Acreage: 901

County: Iron

Management Area: Way Dam Complex

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 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:

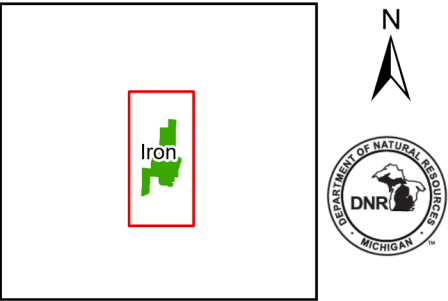
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

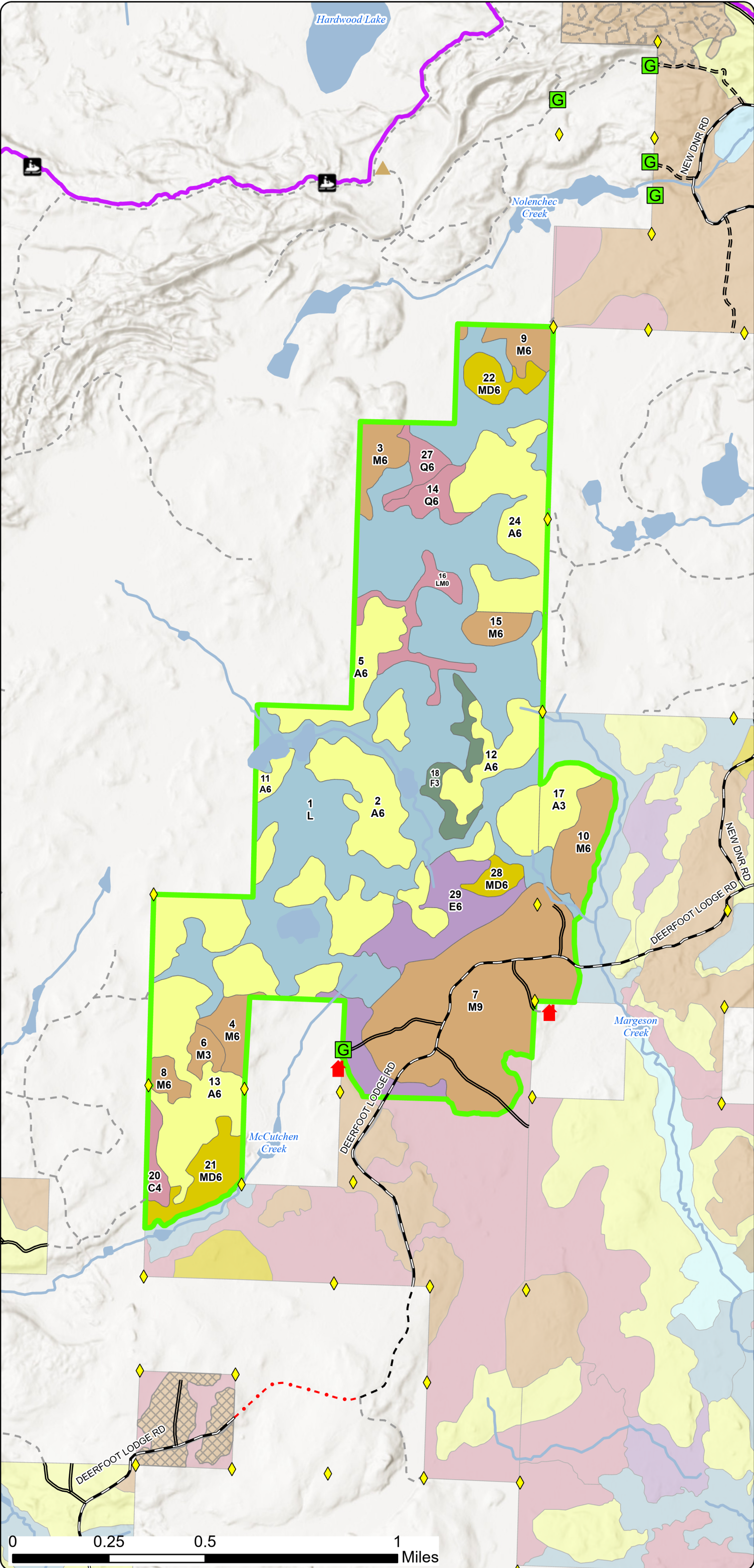
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

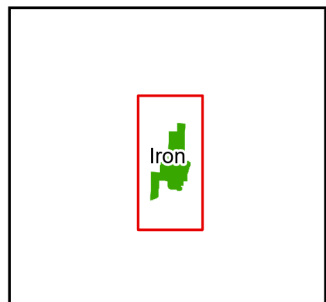
Compartment: 12117
T45N R32W Sec. 24, 25, 36
County: Iron
Unit: Crystal Falls
Mgmt. Area: Way Dam Complex
YOE: 2028
Acres: 901.14 GIS Calculated
Examiner: Eric Brolin
Date Exported: 06/18/2026
Map Phase: Post Review



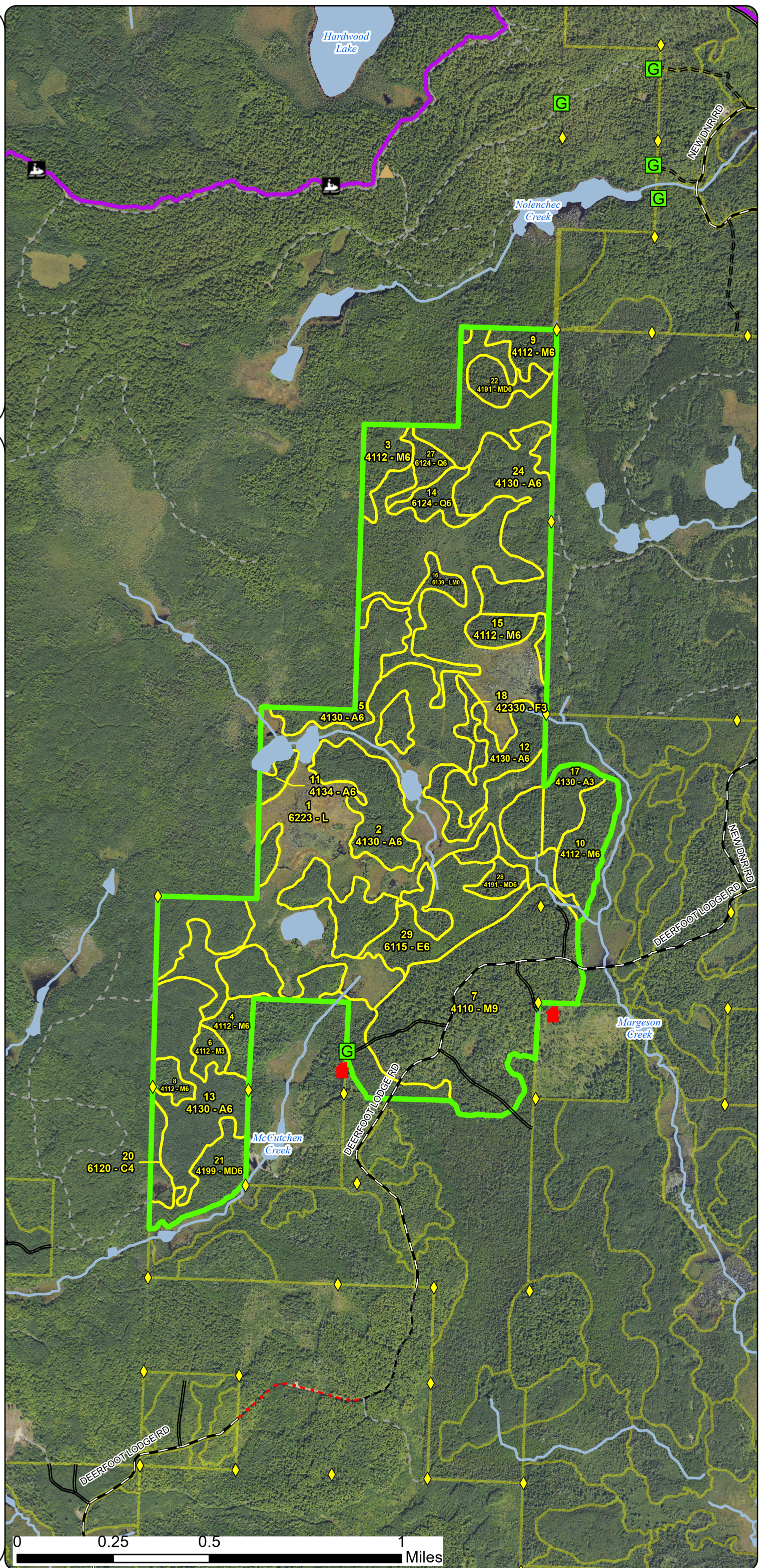
- Survey Grade Corners
- Cabin
- Berm
- Gate
- Designated Snowmobile
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
-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



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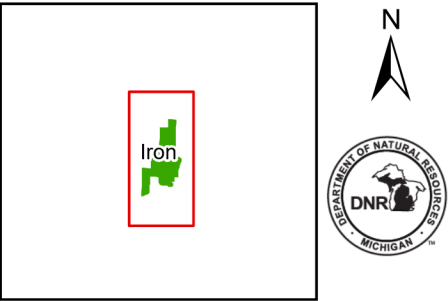


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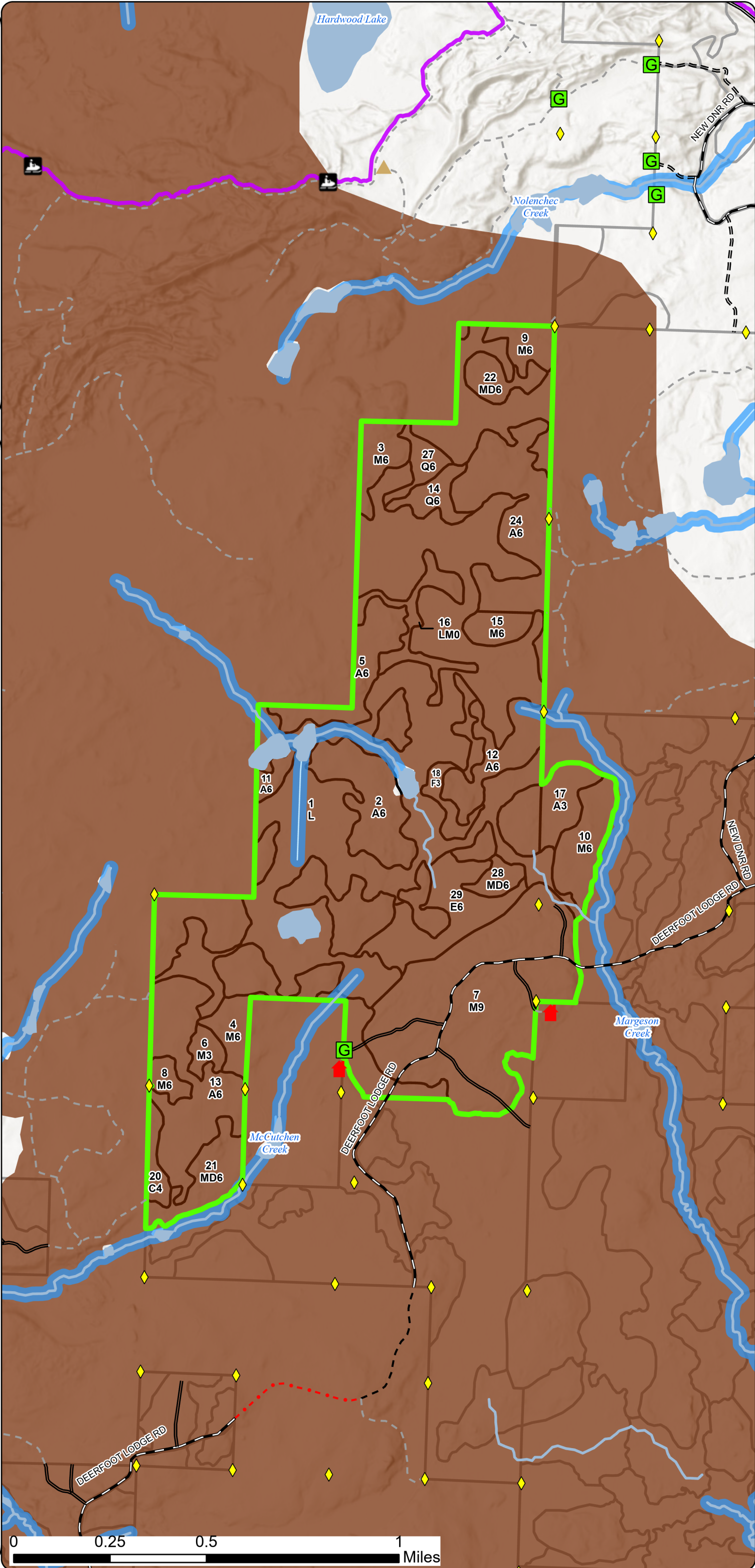


Special Conservation Areas
& Site Conditions Map

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- 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	190	0	0	0	0	0	0	0	0	0	196
Upland Spruce/Fir	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	313	0	0	13	299	9	0	0	262	0	0	7	0	0	0	0	0	0	902



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 117
Total Compartment Acres: 901

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

Total Treatment Acreage Proposed: 0



Availability for Management

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

2B	5C	2G	2H	3J
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223	175	12	37	Aspen		12		28	9
7	7	0	0	Cedar					
17	9	8	0	Lowland Conifers	8				
48	48	0	0	Lowland Deciduous					
16	0	5	11	Lowland Mixed Forest		5	11		
297	297	0	0	Lowland Shrub					
34	19	16	0	Mixed Upland Deciduous		16			
80	50	23	7	Northern Hardwood	13	11	7		
12	12	0	0	Upland Spruce/Fir					
733	616	62	55	Total Forested Acres	20	42	18	28	9
	84%	8%	8%	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	Dominant Site 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	Unspecified
Comments: 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	Unspecified
Comments: Peninsulas cut off by beaver floodings and difficult private access requiring extensive new road construction across private.								

Report 4 – Site Conditions



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Patch containing a small bog with surrounding low ground and mixed conifer/hemlock.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	28	3J: Water quality/BMPs (stream, river, or lake)	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified
Comments: 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							

Report 4 – Site Conditions



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
Comments: 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.							
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
Comments: 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.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small, difficult to reach area. Delay possible management until adjacent areas are managed in the future.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small, difficult to reach area. Delay possible management until adjacent areas are managed in the future.							

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				



MICHIGAN

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.																																																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>70</td><td>Pole</td><td>8</td><td>38</td></tr><tr><td>Red Maple</td><td>10</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Pole/Sap/Log</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Balsam Poplar</td><td>3</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>1</td><td>Log</td><td>12</td><td></td></tr><tr><td>Hemlock</td><td>1</td><td>Log</td><td>16</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Pole/Sap/Log</td><td>7</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td>Pole/Sapling</td><td>7</td><td></td></tr></table>				Canopy Species	% Cover	Size Class		DBH	Age	Quaking Aspen	70	Pole	8	38	Red Maple	10	Pole/Sap/Log	6		Balsam Fir	10	Pole/Sap/Log	7		Northern White Cedar	1	Log/Pole	10		Balsam Poplar	3	Pole	8		White Pine	1	Log	12		Hemlock	1	Log	16		Paper Birch	2	Pole/Sap/Log	7		Black Cherry	2	Pole/Sapling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>Paper Birch</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Red Maple</td><td>High</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Variable	White Pine	Trace	Variable	Variable	Paper Birch	Low	>20 feet	>20 feet	Red Maple	High	>20 feet	>20 feet	Balsam Fir	Medium	Variable	Variable
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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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6	4112 - Maple, Beech, Cherry Association	Sapling Well	5.7	39	1-50	N/A	Young hardwood stand.																																																																																																						
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7	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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8	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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9	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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10	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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11	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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12	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				
13	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	
Quaking Aspen		68	Pole/Sapling	7	38	Red Maple		High	>20 feet	>20 feet	
Red Maple		5	Pole/Sap/Log	6		Paper Birch		Low	>20 feet	>20 feet	
Balsam Fir		2	Pole/Sap/Log	7		Balsam Fir		Medium	Variable	Variable	
Balsam Poplar		2	Pole	8		Red Oak		Low	>20 feet	>20 feet	
Paper Birch		7	Pole/Sap/Log	7		Sugar Maple		Medium	>20 feet	>20 feet	
Black Cherry		2	Pole/Sapling	7		White Spruce		Low	Variable	Variable	
Black Spruce		2	Pole/Sapling	5		Balsam Fir		Medium	Variable	Variable	
Yellow Birch		2	Pole/Sapling	5		White Pine		Trace	Variable	Variable	
Sugar Maple		2	Log/Pole/Sap	11							
Red Oak		3	Pole/Sap/Log	8							
Bigtooth Aspen		5	Pole/Log	8							
14	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	
Quaking Aspen		15	Pole/Sapling	6	38	Balsam Fir		High	Variable	Variable	
Balsam Fir		35	Pole/Sapling	5	38						
Red Maple		10	Pole/Sapling	6							
Tamarack		25	Pole/Sapling	7							
Black Spruce		15	Sapling/Pole	4							
15	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	
Balsam Fir		10	Pole/Sapling	6		Sugar Maple		Medium	Variable	Variable	
Red Maple		40	Pole/Log/Sap	8		Black Ash		Medium	Variable	Variable	
Black Cherry		2	Log	11		Balsam Fir		Medium	Variable	Variable	
Sugar Maple		40	Pole/Log/Sap	9	70	Red Maple		Low	Variable	Variable	
White Spruce		3	Log/Pole	12							
Paper Birch		3	Log/Pole	12							
Yellow Birch		2	Pole/Sapling	7							
16	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	65	Sapling/Pole	4	27	Balsam Fir	Medium		Variable	Variable
Paper Birch	10	Pole/Sap/Log	7		Paper Birch	Medium		Variable	Variable
Sugar Maple	5	Log/Pole/Sap	10		Sugar Maple	Low		Variable	Variable
Red Maple	5	Log/Pole/Sap	10		Red Maple	Medium		Variable	Variable
Yellow Birch	5	Pole/Sap/Log	8						
Balsam Fir	10	Sapling/Pole	4						
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.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Quaking Aspen	5	Pole/Sapling	7	38	Red Maple	Medium	Variable		Variable
Balsam Fir	60	Pole/Sapling	6	38					
Black Spruce	15	Pole/Sapling	7						
Paper Birch	10	Pole/Sapling	6						
Northern White Cedar	10	Log/Pole	12						
20	6120 - Lowland Cedar	Poletimber Poor	6.6	100	1-50	N/A	Beaver dam backed up wet ground with some alder and cedar.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	50	Log/Pole	11	100	Alder	High		5 - 10 feet	5 - 10 feet
Balsam Fir	20	Pole/Sapling	7						
Black Ash	15	Pole/Sapling	7						
Paper Birch	15	Pole/Sap/Log	7						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	38	Pole/Sapling	7	39	Balsam Fir	High		Variable	Variable
Paper Birch	19	Pole/Sapling	6		Paper Birch	Low		>20 feet	>20 feet
Sugar Maple	14	Pole/Sapling	5		Red Maple	Medium		>20 feet	>20 feet
Red Maple	16	Pole/Sapling	6		Sugar Maple	Medium		>20 feet	>20 feet
Red Oak	8	Pole/Log/XLog	9		Red Oak	Low		>20 feet	>20 feet
Balsam Fir	5	Pole/Sapling	6		White Spruce	Medium		Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
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.																																																																									
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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.																																																																									
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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.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
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	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		10	Pole/Sapling	6		Balsam Fir		Low	Variable	Variable
Red Maple		10	Pole/Log/Sap	8	71	Red Maple		High	Variable	Variable
Northern White Cedar		4	Pole/Log	9		White Pine		Trace	Variable	Variable
Quaking Aspen		18	Log	14						
White Spruce		2	Log	12						
Black Spruce		20	Pole	8	78					
Tamarack		3	Pole	7						
Yellow Birch		2	Log	11						
White Pine		1	XLog	22						
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	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		2	Pole	8	64	Black Ash		Medium	Variable	Variable
Red Maple		5	Pole/Log	8	71	Alder		Low	5 - 10 feet	5 - 10 feet
Yellow Birch		2	Pole/Log	9		Balsam Fir		Low	Variable	Variable
Northern White Cedar		1	Log/Pole	12						
Quaking Aspen		3	Log	16						
White Spruce		5	Log	12						
Black Spruce		5	Pole/Sapling	7						
Hemlock		2	Log/Pole	13						
Black Ash		75	Pole/Sap/Log	7	71					