



**Crystal Falls FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 142 ENTRY YEAR 2009
Compartment Acreage: 1116 County: Iron**

Revision Date: July 14, 2007

Stand Examiner: Linda Lindberg

Legal Description: T44N, R31W 22, 23, 26, 27, 35 and 36

Management Goals: The compartment has a variety of species and a lot of water frontage and has been managed with the waterfront having best management practices used since they have been in place. There are several different age classes of aspen but that could be more varied and will in time. The hardwood has been selectively managed to obtain optimum growth and species with the best tree in place used as a guide. There are small swamps that have been left for their multitude of benefits as is.

Soil and Topography: The land in this compartment is fairly flat with some slight rolling areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of the state land is bounded by Wisconsin Electric and with some parcels of private and some Verso land also.

Unique, Natural Features: This entire compartment is surrounded by water including Crotch Lake, Lake Ellen, Lake Wallace and the Michigamme reservoir. Also, one small creek flowing from the reservoir.

Archeological, Historical, and Cultural Features: There was a campground in stand 17 next to Lake Ellen that has been closed. The land to the north next to the reservoir has been gifted to us from the Bureau of Land Management and we are to notify them of anything we do there. In this case, there is a jack pine stand that could potentially be hit by the budworm that has devastated other stands in the Crystal Falls management area so we will propose to cut it.

Special Management Designations or Considerations: As above, the BLM has entrusted us with the land north in the compartment on the reservoir and we need to be in touch with them if we plan to manage anything there.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

MINERAL, OIL AND GAS CONSIDERATIONS: Compartment 142: Section 22- 27 & 34 - 36, T44N-R31W, Iron Co.

Surface sediments consist of thin to discontinuous glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation and Intrusive subcrop below the glacial drift. There is not a current economic use for these rocks. The Crystal

Falls abandoned iron mines are located four miles to the south. Part of the compartment is currently leased for metallic exploration. Lake Ellen is located in this Compartment, the discovery site for Kimberlite in Michigan. The nearest gravel pit is located several miles away, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: The main road called the Channing Road divides the south end of the compartment and access off Lake Ellen road will get you to the rest through private land. This is fairly good road.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: Lake Ellen did have a campground but that has been closed. There is lots of water in and surrounding this compartment and there is a hunter walking trail here too.

Fire Protection: Fairly good access through the compartment but some behind private gates and cables.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 142

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	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	150-159	All Aged	Total
Aspen			67	238	77	199		23		16									620
Black Spruce						3		4											7
Grass	21																		21
Jack Pine									42										42
Lowlnd Brush	31																		31
Marsh	33																		33
Mx Swmp Cnfr								20	60	2									82
Paper Birch			8						20										28
Red Pine										19									19
Spruce Fir									10										10
Treed Bog	13																		13
Upland Hdwds										12								185	197
Water	13																		13
Total	111		75	238	77	202		47	132	49								185	1116

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 142

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	620																										620
S Black Spruce		7																									7
G Grass					21																						21
J Jack Pine							42																				42
L Lowlnd Brush									31																		31
N Marsh											33																33
Q Mx Swmp Cnfr												82															82
B Paper Birch		8													20												28
R Red Pine																19											19
F Spruce Fir																			10								10
D Treed Bog																						13					13
M Upland Hdwds																								197			197
Z Water																									13		13
Total	620	15			21		42		31		33	82			20	19			10			13		197	13		1116

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **142**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8472 Cds	Hardwood	1230 Cds
Hardwood	1259 Mbf	Hardwood	82 Mbf
Softwood	5448 Cds	Softwood	2414 Cds
Softwood	327 Mbf	Sum CutVol	3808 Cds
Sum TotVol	17092 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1116		128	

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 142 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
6	A6	18	45	60	aspen (upland)	high risk	final harvest	1			
comnts Fmd : This stand is a little young yet but in order to better create age class diversity , we should cut it now. There will be retention by leaving the unmerchantalbe conifers and cherry and elm trees .											
7	M9	19		70	northern hardwood	two aged	selection	1		prescribed for fdf treatment	
comnts Fmd : This is a hardwood stand so 80 Basal Area will be left per tenth acre plot for retention.											
27	F6	10	68	50	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1			
35	A6	2	87	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : this is part of the blm stuff that need to be checked with them before we can harvest. No red or white pine would be cut if it is here.											
36	A6	4	84	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : There will be retention by leaving the unmerchantable spruce and balsam, all cedar and hemlock and the cherry and elm.											
37	J6	42	68	60	jack pine	mature	final harvest	1			
comnts Fmd : I am proposing to cut this but it has to be Oked with the BLM before it can have any treatment. Also, it may have to be cut early if the Jack Pine budwom gets to it before we do. No white or red pine would be cut.											
52	A6	8	79	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : No red or white pine would be cut.											
54	A6	2	79	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : There will be retention by leaving cherry and elm and all the unmerchantable spruce and balsam. Save all cherry and Hemlock also											
Total Acres.....		105									

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 142 **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
39	A6	23	66	65	aspen (upland)	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Water quality/bmps

comnts Fmd : This is part of a gift from the BLM and we must check with them before we can cut. No red or white pine would be cut.

Total Acres..... 23

