



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

**COMPARTMENT #181 ENTRY YEAR 2008
Compartment Acreage:1529 County: Iron**

Revision Date: 10/05/2006

Stand Examiner: Linda Lindberg

Legal Description: T46N, R31W. sections 24, 25 and 36

Management Goals: The management goals in this compartment vary from keeping the river wild and natural by maintaining proper buffers, moving the aspen to multiple age classes and moving the hardwood into a structured mixture of ages with as much diversity as possible. We would like to maintain the conifer types but will harvest some leaving similar, parallel stands for a seed source.

Soil and Topography: The predominant soil types in this compartment consist of iron river loam, Spaulding peat and amasa very fine sandy loam. The topography is variable and is rolling in the hardwoods to some steep grades along some of the wet areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is approximately 10 to 12 miles west of Republic and has Marquette County to the east and Plum Creek land to the west with a few small private parcels mixed in the compartment.

Unique, Natural Features The Michigan River is a fairly wild and scenic river that isn't real wide but can be canoed and fished.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: To make sure the harvesting along the Michigan River is properly buffered to maintain the present stature of the river.

Wildlife Habitat Considerations:

MINERAL, OIL AND GAS CONSIDERATIONS:

Compartment 181: Sections 24, 25 & 36, T46N-R31W, Iron County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium, coarse-textured till and minor end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation and Archean Granite/Gneiss

subcrop below the glacial drift. The Granite/Gneiss could be used for decorative or building/dimension stone. The abandoned Republic iron mine is located nine miles to the east. Part of this Compartment has been previously leased for metallic exploration and there may still be potential. Current Metallic leases are located 2.5 miles to the southwest. A gravel pit is located four miles to the west, but there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is fairly good in the compartment due to industries road maintainence.

Survey Needs: There are no survey needs are this time.

Recreational Facilities and Opportunities: Fishing, hunting deer and grouse and canoeing would be the major recreational opportunities here.

Fire Protection:

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: 181

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			298	232		1		65	165	60	5								826
Black Spruce								206											206
Bog or Marsh	16																		16
Grass	6																		6
Lowlnd Brush	33																		33
Marsh	2																		2
Mx Swmp Cnfr								90										53	143
Non Stocked	9																		9
Spruce Fir								17	5										22
Tamarack			5																5
Treed Bog	23																		23
Upland Hdwds																		200	200
Water	38																		38
Total	127		303	232		1		378	170	60	5							253	1529

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Individual Compartment Report

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CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: 181

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	826																										826
S Black Spruce		206																									206
V Bog or Marsh			16																								16
G Grass					6																						6
L Lowlnd Brush									33																		33
N Marsh											2																2
Q Mx Swmp Cnfr												143															143
X Non Stocked													9														9
F Spruce Fir																			22								22
T Tamarack																					5						5
D Treed Bog																						23					23
M Upland Hdwds																								200			200
Z Water																									38		38
Total	826	206	16		6				33		2	143	9					22		5	23			200	38	1529	

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **181**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9853 Cds	Hardwood	4737 Cds
Hardwood	968 Mbf	Softwood	2428 Cds
Softwood	7992 Cds	Softwood	111 Mbf
Softwood	111 Mbf	Sum CutVol	7387 Cds
Sum TotVol	20003 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	396
1529			

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 181 **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	A6	23	76	65	aspen (upland)	mature	final harvest	1		
3	M6	129		60	northern hardwood	unevenaged	thinning	1		
7	A6	54	76	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : This will probably have to be winter logged because access is through tag alder by what I can tell and it is hilly but can be cut.										
10	S6	7	61	48	black spruce-swamp	immature	final harvest	1		
comnts Fmd : There is a section with mostly white pine here and part is high land with b. spruce and then some with aspen. Would have to leave a good buffer along the Mitchigan.										
13	A6	32	76	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : There is some steepness here but it can be cut.										
14	A6	56	76	68	aspen (upland)	mature	final harvest	1		
comnts Fmd : We will have to get access into this area but it seems we can get permission from the northern land owners.										
16	A6	65	60	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : There is a lot of fir in here but it would come back to aspen.										
18	S6	8	66	50	black spruce-swamp	mature	final harvest	1		
comnts Fmd : Some of this stand can be cut when stand 14 is cut because of the access issue but a lot will be left for buffer along the Mitchigan and the tributaies and feeder streams etc.										
38	F6	17	61	45	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
comnts Fmd : Part of this could be cut with stand 14 but we would leave a nice buffer along the river. I would only cut the high stuff that would not impact the wetland and possibly the river. .										
Total Acres.....		391								

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 181 Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
17	A6	5	95	65	aspen (upland)	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : steep land here and not much acres or volume.

Total Acres..... 5

