



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

**COMPARTMENT #189 2007  
Compartment Acreage:1865 County: Iron**

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**Revision Date:**8/28/2005

**Stand Examiner:** Linda Lindberg

**Legal Description:**T45N, R31W, sections 14, 23 and 24

**RMU (if applicable):**

**Management Goals:** To even out the aspen which is the predominating timber type into manageable age classes and keep the northern hardwood which is the second largest and lowland spruce and conifer stands sustainable and healthy.

**Soil and Topography:** This compartment is rolling to hilly and some steep terrain. The soils are Amasa fine sandy loam and Iron River silt loams with spalding peat in the low areas.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Other state, Escanaba Timber, and some small private areas.

**Unique, Natural Features (include only non-site specific and non-sensitive information):**We own Fence River frontage in this compartment and a unique ridge which runs along the Michigan river within the frontage there. Big and Little Spring Lake, Little Sundog Lake, Lake Elizabeth and Hickman lakes are also in this compartment.

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

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This compartment contains the northeastern-most portion of the Deerfoot Lodge Deeryard, generally confined to the Smith and Michigan Creek drainages and a small portion of the Fence River. This compartment and the adjoining lands consist mainly of young aspen, red pine plantations and the northern-most farm in the district. A pack of wolves has occupied this territory for the past several years and has spent a portion of most winters in this compartment. Maintaining as much diversity as possible, in this compartment, is a priority.

## **MINERAL, OIL AND GAS CONSIDERATIONS:**

### **Compartment 189: Sections 13 – 15 & 22 - 24, T45N-R31W, Iron County**

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme and Hemlock Formations subcrop below the glacial drift. There is no current economic use for these rocks. The Michigan discovery of kimberlite was near Lake Ellen, approximately eight miles to the south. The abandoned Republic iron mine is located ten miles to the northeast. Land near this Compartment has been previously leased for metallic exploration and there may still be potential. A gravel pit is located two miles to the northwest, but there should be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** There is the Fence River road thru this compartment and a few gravel roads throughout.

**Survey Needs:**

**Recreational Facilities and Opportunities:**

**Fire Protection:**

**Additional Compartment Information:** There is a considerable amount of storm related blowdown in this compartment and salvage harvests are being worked on.

- **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: 189

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		49	556	51	85	157		3	110	28									1039
Black Spruce								29										6	35
Bog or Marsh	2																		2
Cedar												4							4
Grass	46																		46
LowInd Brush	71																		71
Marsh	8																		8
Mx Swmp Cnfr								2	48	51	47							114	262
Spruce Fir							3	29	10	13								5	60
Tamarack	2																		2
Treed Bog	40																		40
Upland Hdwds																		200	200
Water	96																		96
<b>Total</b>	<b>265</b>	<b>49</b>	<b>556</b>	<b>51</b>	<b>85</b>	<b>157</b>	<b>3</b>	<b>63</b>	<b>168</b>	<b>92</b>	<b>47</b>	<b>4</b>						<b>325</b>	<b>1865</b>

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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: 189

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	1036																		3								1039
S Black Spruce		35																									35
V Bog or Marsh			2																								2
C Cedar				4																							4
G Grass					46																						46
L LowInd Brush									71																		71
N Marsh											8																8
Q Mx Swmp Cnfr												262															262
F Spruce Fir																			60								60
T Tamarack																					2						2
D Treed Bog																						40					40
M Upland Hdwds																								200			200
Z Water																									96		96
<b>Total</b>	1036	35	2	4	46				71		8	262							63		2	40		200	96	1865	

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

IRON COUNTY

COMPARTMENT: **189**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	11101 Cds	Hardwood	4417 Cds
Hardwood	839 Mbf	Hardwood	208 Mbf
Softwood	6254 Cds	Softwood	353 Cds
Softwood	83 Mbf	Sum CutVol	5186 Cds
Sum TotVol	19199 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	236
1865			

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 189**    **Entry Year: 2007**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
1	M6	57		60	northern hardwood	unevenaged	thinning	1		
10	A6	19	76	63	aspen (upland)	mature	final harvest	1		
comnts Fmd : Very steep hills. Has Spring Lake on the west and Mitchigan Creek on the south but it probably could be cut with caution.										
19	A6	56	73	62	aspen (upland)	mature	final harvest	1		
20	A6	26	73	65	aspen (upland)	mature	final harvest	1		
26	A6	50	40	65	aspen (upland)	mature	final harvest	1		
comnts Fmd : SOME HARWOOD POLE OVERSTORY IN NORTH END OF STAND.										
400	G0	4			grass	nonstocked		0	opening maintenance	
comnts Fmd : open strip with lots of small spruce throughout. A low spot full of regen. Black and white spruce.										
401	G0	1		60	grass	nonstocked		0	opening maintenance	
402	G0	2			grass	nonstocked		0	opening maintenance	
403	G0	1		60	grass	nonstocked		0	opening maintenance	
comnts Fmd : full of brush, some conifers few cherries and a sugar maple										
404	G0	6			grass	nonstocked		0	opening maintenance	
comnts Fmd : small opening with encroachments										
405	G0	3			grass	nonstocked		0	opening maintenance	
comnts Fmd : few hardwood logs and conifers and wet here and there										
406	G0	1			grass	nonstocked		0	opening maintenance	
comnts Fmd : small and not anything growing in stand 3 in section 22										
407	G0	6			grass	nonstocked		0	opening maintenance	
comnts Fmd : just a low spot that was cut and nothing grew back yet										
<b>Total Acres.....</b>		<b>232</b>								

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With Limiting Factors**

**Compartment: 189**    Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
6	A5	28	78	55	aspen (upland)	mature	final harvest	1		

TREATMENT LIMITING FACTORS: Road needed (resources not presently available)  
Too wet

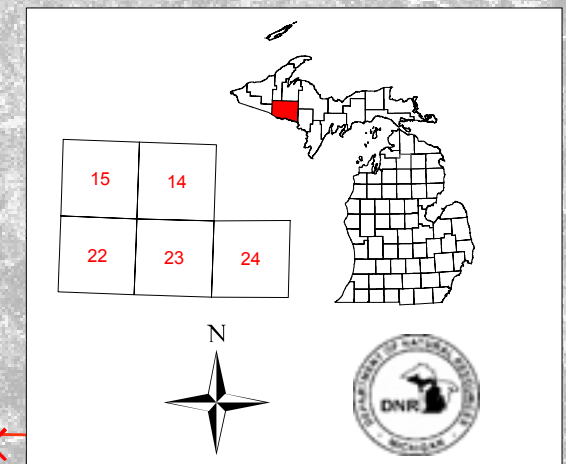
comnts Fmd : Access would be through natural area or across the creek and around Spring Lake and through private or across the river and the span is quite wide. The stand is converting to conifer and has many frost pocket type holes that would be inaccessible and do not really have volume to speak of. Some jack pine mixed here and there but not really a jack pine site. This could be left to be with the proposed Reserve area since it is on the other side of the river.

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**Total Acres..... 28**

# Field Map

Compartment 189  
 T45N, R31W, Sec. 14, 15, 22-24  
 County: Iron  
 Unit: Crystal Falls  
 YOE: 2007  
 Acres: 1,865 GIS Calculated  
 Stand Examiner: Linda Lindberg  
 Map Revised: 9/13/2005  
 Map Phase: Pre-review



**Legend**

- GPS Corners
- Miris Corners
- Poor Dirt Roads
- Stand Boundary
- 026 - Opening Maintenance
- 100 - Final Harvest
- 400 - Thinning