



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

**COMPARTMENT #33 ENTRY YEAR 2009
Compartment Acreage: 3189 County: Dickinson**

Revision Date: 4-25-2007

Stand Examiner: Debbie Goupell

Legal Description: T43N R28W Sec 1
T43N R27W Sec 5, 6
T44N R28W Sec 25
T44N R27W Sec 29-32

Management Goals: This compartment has significant lowland swamp conifer types on the north and south boundary, in which we will simply maintain the species diversity. The compartment is otherwise predominated by various aged aspen. The nicest hardwood stands were treated at last entry. The hardwood stands being prescribed for this entry are of fair quality; we will want to maintain diversity in these stands being thinned by promoting growth on the best trees in all stands being thinned while encouraging mesic conifer components. Protect all bodies of water, especially the West Branch of the Escanaba and North Branch of the Ford Rivers.

Soil and Topography: The majority of the upland is dominated by Pemene fine sandy loams, which is described as a nearly level to gently rolling, well drained soil. Other minor upland soils include Escanaba loam fine sand and Zimmerman fine sand. Lowland types are primarily Cathro mucks or Kinross mucky fine sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State-owned land and some private ownership, used by loggers, hunters, fisherpeople, campers, trappers, general recreationists. State land surrounds most of the compartment boundary.

Unique, Natural Features (include only non-site specific and non-sensitive information):

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): A portion of this compartment was part of the Skelly Ranch in the early 1900s; the old ranch buildings were actually located on what is now private land. Prior to being used as a ranch, the land had been cleared to be used as a summer headquarters and farm for logging operation camps nearby.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Protect water quality for all bodies of water, particularly the West Branch of the Escanaba River and the North Branch of the Ford River. Promote long lived conifer species along these streams and use adequate buffer protection.

Wildlife Habitat Considerations:

MINERAL, OIL AND GAS CONSIDERATIONS:

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Cambrian Munising Formation and the Precambrian Archean granite/gneiss subcrop below the glacial drift. There is not a current economic use for these rocks, although they have building/dimension stone potential. Abandoned iron mines are located approximately ten miles to the south, near Felch. Gravel pits are not located in this area, but there should be potential on the uplands. Part of the Compartment was previously leased for metallic exploration and potential may still exist. There is no economic oil and gas production in the UP.

Vehicle Access: County Road 581 serves as primary access along west and north of the compartment; majority of upland within the compartment is accessible by Skelly Ranch Road, which is a network of poor dirt roads.

Survey Needs: None necessary for this year of entry.

Recreational Facilities and Opportunities: Hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection: Felch protection area. Access to most upland stands is fair, access to swamp types would be difficult.

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

DICKINSON COUNTY

COMPARTMENT: 33

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	1382																										1382
S Black Spruce		60																									60
V Bog or Marsh			8																								8
C Cedar				251																							251
G Grass					97																						97
J Jack Pine							10																				10
L LowInd Brush									201																		201
P LowInd Poplr										99																	99
Q Mx Swmp Cnfr												700															700
M Upland Hdwds																								364		364	
W White Pine																									17	17	
Total	1382	60	8	251	97		10		201	99		700												364	17	3189	

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

DICKINSON COUNTY

COMPARTMENT: **33**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	31370 Cds	Hardwood	7709 Cds
Hardwood	533 Mbf	Softwood	1590 Cds
Softwood	26519 Cds	Sum CutVol	9299 Cds
Softwood	23 Mbf		
Sum TotVol	59001 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	394
	3189		

CRYSTAL FALLS FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 33

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
6	M6	27	81	58	northern hardwood	mature	thinning	1		prescribed for fdf treatment
<p>comnts Fmd : There is an aspen inclusion on the south central portion of stand that may indicate more overall aspen in the stand than there actually is. This ~2 acre inclusion should be clearcut as aspen is large and hardwood quality underneath is poor/fair. Thin to 80-90BA through rest of stand removing poor stems & releasing crop tree crowns. Also, a stick nest was found and reported to wildlife 2-9-07.</p>										
8	A6	123	69	60	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : West part of stand has much more conifer component; there is a bit of slope down to st 20; there is a thin band of young A6 (dbh 5-7") on north side of stand 21 which would be cut (unless slope prevents turning around at the bottom) as it's too small to manage as separate stand. A small hardwood inclusion west of stand 6 will be ideal for in-stand retention purposes. Per pre-review 7/27/07: buffer lowland conifer types (Q) for in-stand retention</p>										
35	A6	119	52	55	aspen (upland)	immature	final harvest	2		
<p>comnts Fmd : This stand will hold another entry but should be considered for cut as stand 23 is a large stand that will likely be prescribed for cut next entry. Stand retention would be ideal along south transition zone</p>										
39	M6	114	67	56	northern hardwood	mature	thinning	2		prescribed for fdf treatment
<p>comnts Fmd : BA varies considerably (70-130) throughout but the stand could use a thinning/improvement cut.</p>										
46	Q6	11	71	45	mixed swamp conifer	immature	final harvest	2		
<p>comnts Fmd : This stand would be a winter cut; the aspen/balm of gilead is falling apart. Recommending this for harvest since adjacent stand 35 is also being recommended at this entry.</p>										
Total Acres.....		394								

**Proposed Treatments
With Limiting Factors**

Compartment: 33

Entry Year: 2009

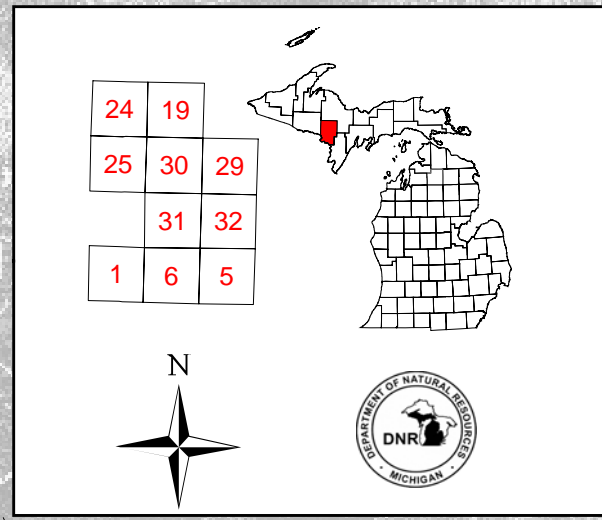
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 33
 T43N, R28W, Sec. 1
 T43N, R27W, Sec. 5, 6
 T44N, R28W, Sec. 24, 25
 T44N, R27W, Sec. 19, 29-32
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2009
 Acres: 3,189 GIS Calculated
 Stand Examiner: Deborah Goupell
 Map Revised: 8/7/2007
 Map Phase: Pre-review



Legend

- ◆ RLS Cornes
- <all other values>

Cad Renderer

- Continuous, 7, 25
- Miris Cornes
- County Gravel Roads
- Poor Dirt Roads
- Trails
- ▲ Campgrounds
- Snowmobile Trails
- Stand Boundary
- ▨ 100 - Final Harvest
- ▩ 400 - Thinning

