



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

**COMPARTMENT #079 ENTRY YEAR 2007
Compartment Acreage: 1685 County: Dickinson**

Revision Date: 8/25/2005

Stand Examiner: Debbie Goupell

Legal Description: RMU (if applicable): T41N R29W Sections 22-24

Management Goals: Maintain diversity in hardwood types, as there is little hardwood in this compartment. Develop age class distribution and overall productivity in aspen and red pine types. Promote as much natural birch regeneration as possible in prescribed birch stand, but accepting aspen and fir regeneration as well.

Soil and Topography: Terrain is primarily flat to rolling with some steep rock outcrops along the southern edge. Specific soil types are quite variable, with Rousseau fine sands that are moderately well drained, Pence and Nadeau fine sandy loams, Mancelona loamy sands and some very poorly drained Cathro mucks.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State-owned land with some private ownership, used by skiers, hikers, campers, fishermen, hunters, trappers, general recreationists and loggers. Lyons Lake is one quarter mile away and surrounded by private ownership.

Unique, Natural Features (include only non-site specific and non-sensitive information): Merriman East Ski Trail, Mitchell Creek, Moon Lake, West Branch of the Sturgeon River.

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

Special Management Designations or Considerations: Protect ski trail, streams and Moon Lake.

Watershed and Fisheries Considerations: Sturgeon River is a Type 1 trout fishery.

Wildlife Habitat Considerations: This compartment is located on the south edge of the Camp Suicide Deeryard. Swamp conifer components need to be maintained and not encroached upon by expanding aspen cuts into the Q types. Limited amount of lowland hardwood type should be maintained for migrant songbird use, as well as, spring foraging sites for bear and deer. Grouse, woodcock and turkey all benefit from the variety of aspen age classes present. Treatments in the red pine stands should preserve as much of the beaked hazel component as possible and also young aspen pockets in areas where red pine stocking is lacking.

MINERAL, OIL AND GAS CONSIDERATIONS:

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation and Archean Granite/Gneiss outcrop beneath the glacial drift. There is not a current economic use for these rocks, but the Granite/Gneiss may have building/dimension stone potential. The Groveland iron mine is located

approximately three miles to the northwest. This compartment was previously leased for metallic exploration and potential may still exist. Gravel pits are not located in the area, but there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Calumet Mine County Road, Merriman East County Road/Truck Trail

Survey Needs: Stand 61 needs one corner

Recreational Facilities and Opportunities: Cross-country skiing, hunting, hiking, trapping, camping, fishing, canoeing/kayaking, general recreation.

Fire Protection: Norway and Felch protection area.

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**

09/13/2005 2:52:18 PM

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

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS MGT UNIT

DICKINSON COUNTY

COMPARTMENT: 79

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		120	133	46	111	151	55												616
Cedar										158	6	3							167
Grass	17																		17
Lowlnd Brush	116																		116
Paper Birch									118										118
Red Pine						289	13	98		12								51	463
Spruce Fir		5				7	95												107
Swamp Hrdwds										44									44
Upland Hdwds																		32	32
Water	5																		5
Total	138	125	133	46	111	447	163	98	118	214	6	3						83	1685

09/13/2005 2:53:03 PM

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

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS MGT UNIT

DICKINSON COUNTY

COMPARTMENT: 79

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	616																										616
C Cedar				167																							167
G Grass					17																						17
L Lowlnd Brush									116																		116
B Paper Birch															118												118
R Red Pine																463											463
F Spruce Fir																			107								107
E Swamp Hrdwds																				44							44
M Upland Hdwds																									32		32
Z Water																									5		5
Total	616			167	17				116						118	463			107	44					32	5	1685

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS MGT UNIT

DICKINSON COUNTY

COMPARTMENT: **79**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	10501 Cds	Hardwood	4178 Cds
Hardwood	139 Mbf	Softwood	1953 Cds
Softwood	14650 Cds	Sum CutVol	6131 Cds
Softwood	814 Mbf		
Sum TotVol	27057 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1685		233	

CRYSTAL FALLS MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 79

Entry Year: 2007

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
21	B6	118	70	60	paper birch	mature	seed tree	1			
comnts Fmd : There are some rock outcrops here that may not be cuttable, thereby leaving some acres uncut; pre-review 8-15-05: mark birch reserve trees throughout; leave 3 stick and less spruce; reserve WP, RP, cedar, oak, hemlock; protect trail = no winter harvest, no slash left on trail or within 20'; have logger scarify where possible; a nest tree is flagged in yellow and written "Do Not Cut" on it (see Monica for GPS coord); also avoid swale (GPS coord from Monica); will accept aspen/fir as alternative regeneration. We will scarify after harvesting											
36	R5	16	45	60	red pine	immature		0	planting	stand with fdf potential	
comnts Fmd : Suggest underplanting white pine in aspen											
40	R4	20	45	60	red pine	immature		0	planting	stand with fdf potential	
comnts Fmd : STAND THINNED IN 2001 ASYLUM PINE, REMOVED ALL ASPEN; Suggest underplanting white and/or red pine in aspen (3/05 DG)											
43	F6	39	57	60	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1			
comnts Fmd : pre-review 8-15-05: reserve WP, avoid ash drainage											
47	F6	21	55	60	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1			
comnts Fmd : summer log tree length (OJ); pre-review 8-15-05: stay on upland, away from floodplain; keep conifer as buffer in floodplain; reserve WP, may cut RP											
48	R5	42	45	60	red pine	immature		0	planting		
61	A6	55	50	60	aspen (upland)	mature	final harvest	1			
comnts Fmd : pre-review 8-15-05: leave smaller conifer as buffer along river in floodplain											
Total Acres.....		311									

**Proposed Treatments
With Limiting Factors**

Compartment: 79

Entry Year: 2007

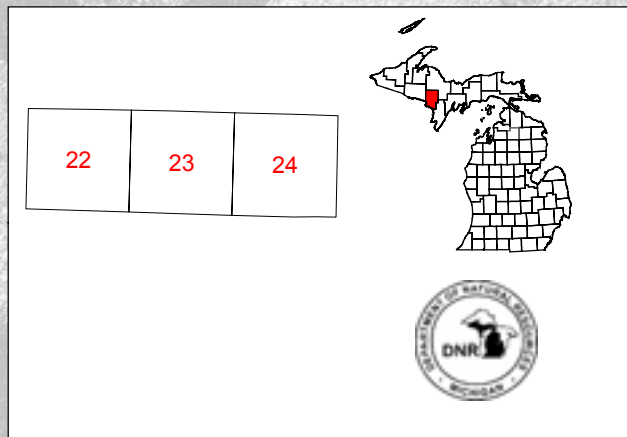
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
--------------	-----------------------	--------------	------------	-----------------------	--------------------	------------------	-----------------------	-----------------------------	--------------------------	----------------------

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Field Map

Compartment 79
 T41N, R29W, Sec. 22-24
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2007
 Acres: 1,685 GIS Calculated
 Stand Examiner: Debbie Goupell
 Map Revised: 9/08/2005
 Map Phase: Pre-review



- Legend**
- ! RLS Corners
 - × GPS Corners
 - - Poor Dirt Roads
 - ▬ Gravel Roads
 - ⋯ Trails
 - Water Features
 - × Natural Material
 - 🏔 Ski Trails
 - ▭ Stand Boundary
 - ▨ 011 - Planting/Hand Tools
 - ▨ 100 - Final Harvest
 - ▨ 200 - Seed Tree
 - Name County Gravel Roads
 - Name Trails
 - Name Water Features

