



**CRYSTAL FALLS FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 112      ENTRY YEAR: 2009**

**Compartment Acreage: 1725      County: Dickinson**

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**Revision Date: 3/3/07**

**Stand Examiner: Otto Jacob**

**Legal Description: T40N, R28W Sections 23, 26, 27, 34, 35**

**Management Goals:** This compartment is broken into many diverse stands. To promote and protect the diversity for wildlife, recreation and timber enhancement is the main focus.

**Soil and Topography:** This area has much flat sandy terrain with occasional rock outcrops and shallow water tables. Areas with higher elevation typically have good hardwood soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Lands within and around this compartment are primarily owned by small private owners and by a large utility company.

**Unique, Natural Features (include only non-site specific and non-sensitive information):** The Sturgeon river and Cassidy creek.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** There is a trail head parking lot for ORV users in the center of the compartment and the corresponding ORV trail. A snowmobile trail also makes use of some of the roads in the winter.

**Special Management Designations or Considerations:** Recreational use is high.

**Watershed and Fisheries Considerations:** The Sturgeon river is a Smallmouth bass stream.

**Wildlife Habitat Considerations:** Diverse populations of wetland and young forest species are important. Efforts to keep patches of old trees along wetlands provide shade and feeding areas. Promotion of conifers provides many habitats for diverse populations of birds and conifers provide dense refuge for all species.

**Mineral Resource and Development Concerns and/or Restrictions: Compartment 112: Sections 23, 26, 27, 34 & 35, T40N-R28W, Dickinson Co.**

Surface sediments consist of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 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 the granite/gneiss may have building/dimension stone potential. The abandoned Iron Mountain iron mines are located four miles to the southwest. Part of this compartment was previously

leased for metallic exploration, and there could still be potential. A gravel pit is located in Section 23 and 35 and there should be some potential. There is no economic oil and gas production in the UP.

**Vehicle Access:** Excellent

**Survey Needs:** Unaware of any.

**Recreational Facilities and Opportunities:** Off road vehicles and snowmobiles are heavy uses. It is also a good area for hunting, fishing and trapping.

**Fire Protection:** Good access and young hardwoods make this a reduced fire threatened area.

**Additional Compartment Information:** This compartment was one of the first areas that had aspen harvests in the Norway management area. When markets permitted, many small cuts prevailed and broke the stand size down.

- **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: 112

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		11		394	79	176			136										796
Black Spruce									16										16
Cedar									49										49
Grass	80																		80
Hemlock																		5	5
LowInd Brush											172								172
LowInd Poplr				29															29
Mx Swmp Cnfr									203	20									223
Non Stocked	11																		11
Paper Birch									35									2	37
Spruce Fir				14		23			8										45
Swamp Hrdwds									59									5	64
Tamarack						19													19
Upland Brush									22										22
Upland Hdwds																		70	70
Water	60																		60
White Pine										28									28
<b>Total</b>	<b>151</b>	<b>11</b>		<b>437</b>	<b>79</b>	<b>218</b>			<b>528</b>	<b>48</b>	<b>172</b>							<b>82</b>	<b>1726</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

DICKINSON COUNTY

COMPARTMENT: 112

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	796																										796
S Black Spruce		16																									16
C Cedar				49																							49
G Grass					80																						80
H Hemlock						5																					5
L Lowlnd Brush									172																		172
P Lowlnd Poplr										29																	29
Q Mx Swmp Cnfr												223															223
X Non Stocked													11														11
B Paper Birch	12																		23					2			37
F Spruce Fir																			45								45
E Swamp Hrdwds																				64							64
T Tamarack																					19						19
U Upland Brush																							22				22
M Upland Hdwds																								70			70
Z Water																									60		60
W White Pine																										28	28
<b>Total</b>	<b>808</b>	<b>16</b>		<b>49</b>	<b>80</b>	<b>5</b>			<b>172</b>	<b>29</b>		<b>223</b>	<b>11</b>						<b>68</b>	<b>64</b>	<b>19</b>		<b>22</b>	<b>72</b>	<b>60</b>	<b>28</b>	<b>1726</b>

COPPER COUNTRY STATE FOREST

CRYSTAL FALLS FOREST MGT UNIT

DICKINSON COUNTY

COMPARTMENT: **112**

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

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8281 Cds	Hardwood	3141 Cds
Hardwood	135 Mbf	Hardwood	24 Mbf
Softwood	7665 Cds	Softwood	681 Cds
Softwood	262 Mbf	Sum CutVol	3870 Cds
Sum TotVol	16740 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	206
	1725		

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 112 Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
8	F6	4	73	50	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1		
comnts Fmd : Wet site is better for spruce fir than for aspen. Retain patches of conifer regen and any pine.										
9	A6	10	76	55	aspen (upland)	immature	final harvest	1		
comnts Fmd : Leave patches of hardwood and of softwood. Retain Cedar, Hemlock and Pines if present. Winter Deer yard Special conservation area.										
11	A6	15	76	55	aspen (upland)	immature	final harvest	1		
comnts Fmd : Leave patches of hardwood and of softwood. Retain Cedar, Hemlock and Pines if present. Winter Deer yard Special conservation area.										
36	F6	4	73	50	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1		
comnts Fmd : This is several small islands with a few trees on each. It maybe considered as being all a transition zone and not worth a harvest. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees.										
38	A6	9	69	55	aspen (upland)	mature	final harvest	2		
comnts Fmd : This stand was sold and not cut around 2000. About half of the fir has fallen since then.SAVE PINE AND CEDAR. Protect transition										
56	M6	25		53	northern hardwood	unevenaged	selection	1		
comnts Fmd : If they are present in the stand, retain pines, oak, cedar, cherry and good den trees.										
57	A6	5	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : This small stand is a spring bed. It may be too wet or almost all transition. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees.										
63	A6	18	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : This is a poorly stocked stand that is best suited for spruce and fir. The budworm damage is high and the aspen poor and short. Much of the fir has fallen. I suspect this has shallow sand soil and is both wet and dry over the season of growth. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees.										
66	A6	10	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Similar to stand 63, but a better site and purer to aspen. It has a drainage E&W thru the center which will need to be omitted and a transition left.										
72	A6	3	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches.										
75	A6	30	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : Spruce and Balsam falling fast. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches and protect vernal ponds, if present.										
82	B5	2		63	northern hardwood	unevenaged	shelterwood-seed	1	planting	
comnts Fmd : This is a high site. Convert fo cherry. Much of the birch and aspen has fallen. Need survey. Plant black cherry. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches.										
83	A6	14	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : This was sold and not cut. The birch is falling fast. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches.										
88	B6	23	69	55	spruce-fir (uplands-including upland black spruce)	mature	final harvest	1		
comnts Fmd : This is a stand that is best suited for spruce and fir. The budworm damage is high and the aspen poor and short. Save the Pine and the conifer regen.										
90	B6	12	69	55	aspen (upland)	mature	final harvest	1		
comnts Fmd : I split this stand off the original that included stand 88. It is better aspen and should be treated to regen. Aspen as the primary goal. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches.										

**CRYSTAL FALLS FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 112    Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status	
<b>105</b>	<b>A6</b>	16	69	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : Spruce and Balsam falling fast. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches. Protect vernal ponds if present.											
<b>112</b>	<b>A6</b>	6	69	55	aspen (upland)	mature	final harvest	1			
comnts Fmd : This stand is on the margin of hardwood and a fir type. It has scattered stocking with openings. If they are present in the stand, retain pines, oak, cedar, cherry and good den trees. Retain wet timber type patches.											
<b>Total Acres.....</b>		<b>206</b>									

**Proposed Treatments  
With Limiting Factors**

**Compartment: 112**

**Entry Year: 2009**

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

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**Total Acres..... 0**

# Field Map

Compartment 112  
 T40N, R28W, Sec. 26, 27, 34, 35  
 County: Dickinson  
 Unit: Crystal Falls  
 YOE: 2008  
 Acres: 1,723 GIS Calculated  
 Stand Examiner: Otto Jacob  
 Map Revised: 7/31/2007  
 Map Phase: Pre-Review

## Legend

- Miris Corners
- Paved Roads
- - -** Gravel Roads
- - -** Poor Dirt Roads
- Water Features
- Stand Boundary
- ▨** 100 - Final Harvest
- ▩** 311 - Shelterwood-seed/Planting/Hand Tools
- ▣** 800 - Selection

