



TIMBER SALE PRESCRIPTION

GENERAL

Date 1/31/2008	Forest, Mineral and Fire Management Unit CRYSTAL FALLS
Timber Sale Number (if applicable) 12-007-08-01	Sale Name (or prescription name) COMPANION HARDWOODS

LOCAL CONTACT

Name CYTNHIA COOPER	Telephone (906) 875 - 6622
Email Address cooperck@michigan.gov	FAX (906) 875 - 3336

Map of Project Area Attached

LEGAL DESCRIPTION

T41N R30W Section(s) 8,9 Description N1/2

Year of Entry: 2008 Compartment(s):74 Stand Number(s): 4,14,21,29

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 176 Source: OI GPS Other _____

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
4	M6	106	130	THIN	NORTHERN HARDWOODS
14	M6	18	130	THIN	NORTHERN HARDWOODS
21	M6	36	120	THIN	NORTHERN HARDWOODS
29	M6	16	130	THIN	NORTHERN HARDWOODS

PRESCRIPTION

1. Mark to achieve an average residual basal area of 80 sq.ft. by removing poor quality stems competing with crop trees.
2. Special attention will be given to removal of trees with cankers, cracks and V-shaped forks.
3. Leave some den trees for wildlife, preferably those with upper stem cavities.
4. Do not mark conifers or oak.
5. Minor species will be favored for retention.
6. Two aspen leave trees per acre will be marked using green paint. No other aspen will be marked.

SS From M-95 to Co Road 607 at Randville (Randville Road). Units 1,2 and 4 are accessed from Smith Road off of Co Rd 607.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Property lines, stand lines and unit lines.	2/8/2008

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 9-1-2008

PAINT LINE WORK

This is included in the bid This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land

AREA CALCULATION

This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

TIMBER CRUISING SPECIFICATIONS

This is included in the bid This is not included in the bid

Required Basal Area Factor: 10 20 Other:

Cruise Line Directions N/S

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
1 All	1	3 X 3
2		
3		
4		
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

- 1.Sawlog cruise sheets with large pulp sticks, provided by the DNR, MUST be used.
2. Each unit MUST be cruised separately. A summary must be provided for each unit (pulp and sawlogs).
- 3.Each plot center will be flagged with the unit number and plot number (i.e. U-5, # 10). Locator flag may be necessary if plot center is very low to the ground.
4. Cruise species for pulp are basswood, mixed hardwood and mixed aspen.

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

TIMBER MARKING SPECIFICATIONS

This is included in the bid This is not included in the bid

Precise specifications to be delineated at pre-work meeting with DNR staff

Total Merchantable Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		0	
Girdled Trees Per Acre		0	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash w/ dots for logs	12	10
Pulpwood	slash	5	4

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
sugar maple logs	1 : 1
white ash logs	1 : 1
mixed hardwood logs	1 : 1

SPECIAL MARKING INSTRUCTIONS

1. Conifers and oak will not be marked. Do not mark blue painted bearing trees or any exterior (blue or red) painted boundary trees. Unit line trees may be marked.
2. Two aspen trees per acre will be marked as leave trees. Green paint will be used for these trees. No other aspen will be marked.
3. Sawlogs will be marked with a double slash on one side, single slash and one dot per log on opposite side. Pulp trees will be marked with a single slash on opposite sides. All trees will have adequate stump marks.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

RESTRICTIONS

1. Forest, Mineral and Fire Management Division must be able to identify who did what on the timber sale.
2. The contractor may not have more than two markers in one payment unit without prior approval.
3. Each marker should have an assigned area to mark (not strips).

PAINT

1. Call CYNTHIA COOPER at (906) 875 - 6622, to make arrangements for paint.
2. Paint will be supplied from Crystal Falls Office.
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
4. The DNR will not be available on weekends or evenings.

DELIVERABLES

1. A list of names that marked or cruised each payment unit.
2. A summary of paint used (in quarts).
3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
4. GPS files for any GPS work.