



TIMBER SALE PRESCRIPTION

GENERAL

Date 09/18/12	Forest, Mineral and Fire Management Unit Cadillac FMU
Timber Sale Number (if applicable) 63-002-13-01	Sale Name (or prescription name) 117 Hardwoods

LOCAL CONTACT

Name Jim Malloy	Telephone (231) 824 - 9080 x10
Email Address malloyj@michigan.gov	FAX (231) 824 - 9340

Map of Project Area Attached

LEGAL DESCRIPTION

T24N R07W Section(s) 21, 28, 29, 32, 33 Description Various (See Map)

Year of Entry: 2013 Compartment(s):117 Stand Number(s): 12, 19, 53, 55

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 574 Source: OI GPS Other IFMAP

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

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
19	M6	53	81-110	Selection	Northern Hardwoods
53	M9	396	81-110	Selection	Northern Hardwoods
55	M6	125	81-110	Selection	Northern Hardwoods

PRESCRIPTION

1. Follow Guidelines in Complete Marker. Target poor quality and suppressed trees for removal.
2. Residual BA of 70.
3. In all stands remove all ironwood and aspen by spec.
4. Retain under-represented species such as hemlock, elm, and yellow birch.
5. Mark for best tree in place.
6. Within Stand 53 (Units 1, 2, and 3 on the map) all ash will be removed by spec.
7. Within Stand 19 (Unit 5) and 55 (Unit 4) all beech and ash will be targeted for removal first when selecting crop trees
- 8.
- 9.
- 10.

Access See Map

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Line work to be completed by	Completed

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 07/30/2013

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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Blue <input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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 TBD

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
19	1	3 X 3
53 (all Units) and 55	.6	4 X 5
		X
		X
TOTAL NUMBER OF CRUISE POINTS	~350	

Cruise Special Instructions:

Cruise all sawlogs to a 8" top, and all pulpwood to a 4.0" top (DIB). Point sample method crusing for all pulp and spec removal species. All orange marked trees will have sawlogs individually tallied. Final cruise information should be provided to the DNR in electronic for ready for input into TSALE.

Stand 53 will be broken up into 3 separate units for marking and crusing.

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): 70 (Minimum 60 to Maximum 80)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		1 every two acres	
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Double slash with Dots	9.1"	8"
Sawbolts			
Pulpwood	Single Slash	4.6"	4.0"

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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
All	1 : 1
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

All sawlogs not removed by spec are to be dot marked and tallied.

Do not use ash or beech for crop trees but these species may be left if needed to meet the residual BA requirement.

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 to 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 Jim at (231) 824 - 9080, to make arrangements for paint.
2. Paint will be supplied from Manton Field 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.