



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 9/22/2009	Forest, Mineral and Fire Management Unit Baraga
Timber Sale Number (if applicable) 11-022-10-01	Sale Name (or prescription name) <b>Tower Hardwoods</b>

## LOCAL CONTACT

Name Jason Mittlestat	Telephone (906) 353 - 6651
Email Address <b>mittlestatj@michigan.gov</b>	FAX Number (906) 353 - 7464

**Map of Project Area Attached**

## LEGAL DESCRIPTION

T47N R34W Section(s) 2 Description , entire

Year of Entry: 2009 Compartment(s): 26 Stand Number(s):55, 58, 62

## THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 287 Source: OI GPS X Other IFMAP  
 Payment will be made on the basis of these estimated acres.

## TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
55	M9	155	141-170	Selection	Northern Hdwd
58	M9	117	111-140	Selection	Northern Hdwd
62	M6	15	111-140	Selection	Northern Hdwd

## PRESCRIPTION

1. Mark trees to be cut. Favor the best future crop tree in place, regardless of species.
2. Payment units should approximate 40 acres. Recommend 8 units on this sale.
3. Leave den and nest trees.
4. The objective is an all age stand structure with a max diameter of 22".
5. Retain all hemlock, oak, cedar and pine unless removal is needed for operability.
6. Release oak on three sides to a residual BA of 60 sq ft.
7. Where there is more than 30 sq ft of hemlock mark down to 100 sq ft.
8. GPS all roads within the sale area. GPS corners.
9. Label sale name and unit numbers at all unit & road intersections
10. Label units when unit line is adjacent to roads. Labeling is to be done in red aerosol paint.
11. Further guidance will be discussed at presale mtg.

**Access** Two track road Westerly from U.S. 141.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE

## CONTRACT WORK CAN BEGIN

Immediately  Date:

**CONTRACT WORK MUST BE COMPLETED BY** Date Lines by Feb. 1, 2010, Marking by September 1, 2010.

**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"/> Other: See **
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red <input type="checkbox"/> Other: See **
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red <input type="checkbox"/> Other: See **
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

**Exclusions to mark and why**

**Standards for marking lines against private land**

All lines must be flagged w/ pink ribbon, and painted so as to be visible from all vantage points along the line. At least one ribbon should be placed between each painted line tree. GPS can be used to approximate line placement, but the final line must essentially be straight, and extend corner to corner.

**AREA CALCULATION**

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

UNIT	METHOD	STANDARD
Sale	<input checked="" 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:**

Provide corrected GPS files compatible with Pathfinder software or ArcView.

**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**

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
		X
		X
		X
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>		

**Cruise Special Instructions:**

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

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		n/a	
Girdled Trees Per Acre		n/a	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	slash on 2 sides w/dots	10"	8"
Sawbolts			
Pulpwood	slash on 2 sides. see *	6"	4"

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input 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
Hardwood pulp	1 : 20
Softwood pulp	1 : 10
Aspen (all as pulp)	1 : 10
Sawlogs	1 : 1

**SPECIES TO FAVOR**

Oak, Hemlock, White Pine, Cedar

**SPECIES TO FAVOR**

**SPECIAL MARKING INSTRUCTIONS**

Put upper marks on two opposite sides of trees 6' up. The contractor must furnish the DNR with plot data showing residual BA/Ac for payment units to be checked (Self Admin). This is due before the DNR checks the marking. The contractor is responsible for checking all workers on the sale. Final marking details are to be discussed at a prework conference.

\* Every tally pulpwood tree should have a slash for every tallied 8' stick.

\*\* Line marks must be atleast 6' high, be flagged w/pink ribbon, and painted so as to be visible from all vantage points along the line. At least one ribbon should be placed between each painted line tree.

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 Jason Mittlestat at (906) 353 - 6651, to make arrangements for paint.
2. Paint will be supplied from Baraga 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.
5. Marking and Line work will be separate line items and can be paid as they are completed and approved.