



# TIMBER SALE PRESCRIPTION

GENERAL	
Date	Forest, Mineral and Fire Management Unit
December 23, 2009	Traverse City
Timber Sale Number (if applicable)	Sale Name (or prescription name)
610091001	North Haze Hardwood

LOCAL CONTACT	
Name	Telephone
Scott Lint	(231) 922 - 5280 ext. 6844
Email Address	FAX
lints@michigan.gov	(231) 922 - 1853

**Map of Project Area Attached**

LEGAL DESCRIPTION
T27N R14W Section(s) 26 Description: SE 1/4 , SESW

Year of Entry: 2010 Compartment(s):8 Stand Number(s): 84

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

Estimated Acres: 109 Source:  OI  GPS  Other: GIS-based state forest inventory

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

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
84	M9	109	126	selection	hardwood

**PRESCRIPTION**

- Follow "Compleat Marker" guidelines. Target residual basal area = 90 ft<sup>2</sup>/acre. Focus harvest on multi-stemmed red maple whenever possible.
- Scattered basswood, yellow birch, elm, white ash, and conifers are to be retained for diversity as much as possible. Leave big, hollow beech unmarked for wildlife trees.
- Aspen in scattered clones can be marked, but leave any obvious cavity trees and some for potential/future cavity trees.
- Mark one tree per acre with an orange "X" on two sides, with no butt mark, to be felled and left on site by loggers for coarse woody debris. These should have a minimum dbh of 10", and should be a poor quality tree (crooked, decay, etc.). Distribute evenly throughout the stand, but at least 100' from roads.
- Small area along Hooker Rd. dominated by aspen and small pine (approx. 1.7 acres): discuss marking needs with DNR representative on site prior to marking.
- Haze Rd. serves as a recreational trail. Leave unmarked any trees with trail markers. Consideration should be given to minimizing aesthetic impacts of marking/harvesting in the vicinity of the trail. Mark any unappealing, disfigured trees along this road, but leave as many other trees as possible unmarked immediately adjacent to the road, even if the target BA is slightly exceeded in that area.

**Access:** Good access via Haze Road on the east side of the stand and Hooker Road along the south.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
none	

**CONTRACT WORK CAN BEGIN**

Immediately  Date: \_\_\_\_\_

**CONTRACT WORK MUST BE COMPLETED BY** Date 8/15/10

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

**Exclusions to mark and why**

Note that the east boundary of the sale follows the section line between sections 26 & 25, running north from the SE corner of section 26, east of Haze Rd. Haze Rd. is NOT the east sale boundary.

**Standards for marking lines against private land**

Hooker Rd. will serve as an adequate boundary on the south, effectively separating private land from state land. No boundary marking is needed along Hooker Rd.

**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	PDOP 6 or less
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP 6 or less
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP 6 or less

**Special Instructions:**

DNR administrator must be provided ArcView shapefiles of the outer boundary of the entire sale area (polygon feature), and the 3 interior payment unit boundaries (line features).

**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 no specific direction required, but map of numbered plots/course line directions must be provided.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
stand 84	.61 plots/acre	4 x 4
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>	67	

**Cruise Special Instructions:**

Cruise each species separately per DNR standard method. Also record residual BA by species on each plot.

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) stand 84: 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, butt mark	10"	8"
Sawbolts			
Pulpwood	slash on 2 sides, butt mark	5"	4"

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
"X" marking on CWD trees (see prescription)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

**TALLY INTENSITIES**

SPECIES / PRODUCT	RATIO
N/A	1 :
	1 :
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

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/cruisers in one payment unit without prior approval.
3. Each marker/cruiser should have an assigned area (not strips).

**PAINT**

1. Call Scott Lint at (231) 922-5280 ext. 6844 to make arrangements for paint pickup.
2. Paint will be supplied from the Traverse City DNR Field Office, 970 Emerson, T.C.
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. Cruise data for each stand (one summary, regardless of the number of markers) and all of the original cruise sheets; map of numbered cruise plots and course lines.
4. GPS shapefiles for GPS work.