



TIMBER SALE PRESCRIPTION

GENERAL	
Date March 24, 2009	Forest, Mineral and Fire Management Unit GAYLORD FMU -South
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 43, stands 7 & 3

LOCAL CONTACT	
Name Kimberly M.Lentz	Telephone (989) 732- - 3541
Email Address lentzk@michigan.gov	FAX (989) 731 - 6214

Map of Project Area Attached

LEGAL DESCRIPTION	
T32N R4W Section(s) 4, 5, 6	Description Sec.4 SENE, & E1/2 SE1/4 Sec.5 W1/2 NW1/4 & W1/2 SW1/4

Year of Entry: 2009 Compartment(s):43 Stand Number(s): 7&3 Legal con't:Sec.6 E1/2SE1/4, E1/2NE1/4,SWNE

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 240 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
7	M9	193	140	Thinning	Northern Hardwoods
3	M9	47	150	Thinning	Northern Hardwood

- PRESCRIPTION**
1. Mark stand 7 to reduce BA to 80sq.ft. using single tree selection/crop tree release marking method.
 2. Mark stand 3 to reduce BA to 70 sq.ft.using single tree selection/crop tree release marking method.
 3. Leave minor species such as elm, hemlock, and under-represented species, snags and den trees.
 4. On steep slopes, mark the draws and accessible ridgetops only, leave most steep slopes unmarked. Consult with contract administrator as to what constitutes a steep slope.
 5. Protect vernal ponds & seeps by not marking in those areas. Leave coarse woody debris. Consult with contract administrator as to what constitutes coarse woody debris.
 6. Buffer the creek with an unmarked area a minimum of 100' or more to the well-drained soil type Creek is located in north part of stand 7.
 7. Leave large trees suitable for raptors & other wildlife.
 8. Protect trees with stick nests, and report to DNR.
 9. Create regeneration canopy gaps where possible.

Access Stands are north of Thumb Lake Road and near Slashing Road.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Corners located and private lines established.	06/01/2009

CONTRACT WORK CAN BEGIN

Immediately Date: 6/1/2009

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2009

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why**Standards for marking lines against private land**

Responsibility of State Forester.

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 map and acres	PDOP 6
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:

Contract to include marking 240 acres total. This includes all of stand 7, with the balance of the 240 acres to be marked in stand 3. Contractor will paint a yellow payment unit line along the west boundary of their marking in Stand 3. Must provide administrator with shapefiles and acreage of sale area.

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** As determined by contractor.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 7	One plot per 2.0 acres	4 chs X 5 chs about 90 plots
Stand 3	One plot per 2.0 acres	4 chs X 5 chs about 25 plots
		X
		X
TOTAL NUMBER OF CRUISE POINTS	115	

Cruise Special Instructions:

Mark and tally logs 100%. Pulpwood marked and point sample cruised. Sugar Maple, Red Maple, Birch, Beech, and Black Cherry pulp can be combined as mixed hardwood. All other pulp species, white ash, basswood, and aspen must be cruised separately. Residual BA must be tallied at each cruise point. Each sample point is to be recorded and clearly marked on the ground for the administering Forester to locate and review.

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		0-3	30' Crown to crown
Girdled Trees Per Acre		1-2	10" dbh and up
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	X plus one dot per log	12	8 inches
Sawbolts			
Pulpwood	/ Slash	4.6 inches	4 inches

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
All sawlogs , all species	1 : 1
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

Mark on both sides of the tree. Manage for the best tree in place, but discriminate in favor of the sugar maple and oak. Create regeneration gaps where lower quality trees exist. Mark all trees in the regeneration gaps. Do not mark quality trees to create regeneration gaps. For sawlog trees paint dots on one side of the tree to represent the number of 8' logs tallied. The other side will be marked with an X. Stump marks are to be placed from the ground up one foot and clearly visible. Do not mark on rainy days or with snow around the stumps. Adjacent to the creek, vernal pond, and seeps (outside the buffer zone), mark at least one tree per acre with the word "DROP" for timber sale producer to cut. "DROP" tree should be 10" or greater dbh with few limbs so that the bole of the tree when felled contacts the ground. Do not stump mark drop trees. Girdle trees will be marked with two horizontal bands completely around the tree selecting trees 10" dbh and greater.

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 Kimberly Lentz at (989) 732 - 3541 ext:5442, to make arrangements for paint.
2. Paint will be supplied from Gaylord 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.