



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 11/07/2012	Forest, Mineral and Fire Management Unit Gaylord FMU - South
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 19

## LOCAL CONTACT

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

Map of Project Area Attached

## LEGAL DESCRIPTION

T29N R3W Section(s) Sec.26 Description N1/2NW1/4 & SENW Sec.27 S1/2NW1/4, NENW, N1/2NE1/4 & SWNE

Year of Entry: 2013 Compartment(s):19 Stand Number(s): 4,6,20

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

Estimated Acres: 127 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	M9	17	111-140	Single Tree Selection	Maple, Beech, Cherry Association
6	M6	56	110-120	Single Tree Selection	S.Maple Hard Mast Association
20	M6	54	120-140	Single Tree Selection	Mixed Northern Hardwoods

## PRESCRIPTION

1. Mark stands 4,6, & 20 to reduce BA to an average of 80 sq.ft. using single tree selection/crop tree release marking.
2. Favor maple using 7 foot crown release guidelines for crop trees.
3. Due to BBD, mark out most of rough barked beech. Favor leaving a minor component of smooth barked beech for mast & crop trees. (5% - 10% residual beech)
4. Leave minor species such as yellow birch, red oak, white pine, & basswood, hemlock, under-represented species, snags and den trees.
5. Leave large trees suitable for raptors & other wildlife.
6. Protect trees with stick nests, and report to DNR.
7. Mark out merchantable Aspen and White Birch during single tree selection. Leave some Aspen suitable for living den trees.

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

## CONTRACT WORK CAN BEGIN

Immediately  Date: 04/01/2013

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2013

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

No blue lines. The private boundary has been marked by DNR with blue paint.

**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:**

No red lines. The timber sale boundary has been marked by DNR with red paint.

**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 4	1.0 ac.per plot 17 plots	3.0chs. X 3.0chs.
Stand 6	1.2 ac.per plot 48 plots	3.0chs X 4.0chs.
Stand 20	1.1 ac.per plot 47 plots	3.0chs X 3.5chs.
<b>TOTAL NUMBER OF CRUISE POINTS</b>	112 plots	

**Cruise Special Instructions:**

Mark and tally logs 100% by species. Mark and point sample cruise all pulpwood. Sugar Maple, Red Maple, Black Cherry, yellow birch pulp can be combined as mixed hardwood pulp. All other pulp species, basswood, beech, aspen, & white birch must be cruised separately. Residual BA must be tallied at each cruise point. Each sample point is recorded and clearly marked on the ground for the contract administrator 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			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	<input checked="" type="checkbox"/> Plus one dot per 8' log	10" class	8"
Sawbolts	N/A	N/A	N/A
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. On hills, marks should face the downward slope. Manage for the best tree in place, but favor leaving sugar maple, basswood, & oak for crop trees, and remove poorly formed and defective trees. Beech bark disease is a concern in this compartment, so mark out rough bark beech and leave smooth barked trees for mast & crop trees. Some living den trees should also be left for wildlife. For sawlog trees, paint dots on one side of the tree only 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 be clearly visible. Do not mark on rainy days or with snow around the stumps. With clump grown trees with multiple stems, treat it as one tree by marking entire clump or leaving entire clump.

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 DNR Field Office. Upon being awarded contract, notify DNR representative whether paint will be needed in quarts or gallons.
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.