

## TIMBER SALE PRESCRIPTION

	GENERAL								
Date Oct. 22, 2010	)	nd Fire Management Unit r MU							
Timber Sale Number	er (if applicable)				Sale Name (or prescription name) 2011 Contract Hardwood Marking				
				LOCAL CONTACT					
Name Rick McDonald	ì	<b>-</b> 4101							
Email Address mcdonaldr@m	nichigan.gov			FAX Number (989) 983 -	FAX Number (989) 983 - 3957				
⊠Map of Project Area Attached									
LEGAL DESCRIPTION									
T33N R1W Section(s) 9 NWSW; E1/2NW; N1/2NE; SWNE; E1/2SW and W1/2SE									
Year of Entry: 2011 Compartment(s):9 Stand Number(s): 24									
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE									
Estimated Acre				Other					
Payment will be m	ade on the basis	of these es		S. EATMENT & OBJECTIVE					
STAND#	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE				
24	М6	165	130	Selection	Northern Hardwoods				
					+				
				PRESCRIPTION					
<ol> <li>Reduce stand basal area to 80 square feet using single tree selection/crop tree release marking techniques. See attached sheet.</li> <li>Manage for the best tree in place, however, do not mark any elm, cherry, hemlock, or other Conifers, den trees or trees of poor vigor. Leave areas of Hemlock and Hardwoods as areas of retention</li> <li>Retain existing representation of all species currently within the hardwood stands.</li> <li>See attachment for further marking instructions.</li> </ol>									
DNR PR	EPARATION W	RK ESTIMATED DATE							
none									
CONTRACT WORK CAN BEGIN									
☐ Immediately ☐ Date:  CONTRACT WORK MUST BE COMPLETED BY Date August 15, 2008									

		PAINT LINE V	VORK						
⊠This is included ir	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		$\boxtimes$	Blue	Other:	Other:				
Sale boundary			⊠ Red	Other:					
Sale cutting unit				Other:					
Stand type line		$\boxtimes$		Other:	Other:				
Exclusions to mark	and why								
Standards for marki	ng lines against private l	and							
Not applicable.	ig inioo agamot privato i	ana							
		AREA CALCUI	_ATION						
☐ This is included in	n the bid 🔲 This is no	t included in the	e bid						
UNIT	METHOD			STANDARD					
Sale	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	in Other							
Payment Unit	☐GPS ☐String Cha	<u> </u>							
Stand	☐GPS ☐String Cha								
Special Instructions									
Sale map is to be	produced at a scale o	f one inch to	the $\frac{1}{4}$ mile.	Four inches equals a	mile.				
	TIMB	ER CRUISING SP	<b>ECIFICATIONS</b>						
⊠ This is included i	n the bid $\square$ This is no	t included in the	e bid						
Required Basal Area	Factor: $\square 10$ $\square 20$	Other:							
Cruise Line Direction	ns								
CRUIS	ING UNITS	NUMBER OF PL	OTS PER ACRE	SPACING (CHAI	INS)				
Stands 24		Approxima	ately .52	4 X 5					
				X					
				X					
				X					
	OF CRUISE POINTS	Appro	x. 86						
Cruise Special Instru		be taken at a	and amilaa n	lot The number of an	uiao plota				
	Residual basal area will be required to be taken at each cruise plot. The number of cruise plots will be determined after the acreage has been determined.								
The cruise will be for pulpwood in the hardwood stands. Sawlogs will be 100% tallied.									
The cruise and 100% tally must separate Basswood, Sugar Maple, Ash and other hardwoods.									
Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.									

R4038 (Rev. 07/13/2006)

	TIMBER MARKING	SPECIFICATIONS			
⊠This is included in the bid	I ☐This is not included in t	he bid			
⊠Precise specifications to	be delineated at pre-work mee	eting with DNR staff			
Total Residual BA (Basal Ar	ea): 80 (Minimum 70 to Maxir	mum <u>90</u> )			
TREA	TMENT	NUMBER	SIZE		
Regeneration Gaps Per Acre Girdled Trees Per Acre	)	3 to 5	30' crown		
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB		
Sawlogs	Orange slash with dots	10 inches	8 inches		
Sawbolts	N/A	N/A	N/A		
Pulpwood	Orange slash	5 inches	4 inches		
TVDE OF WORK	WORK TO BE BONE	NOT ARRUSARIE	DAINT OOL OD		
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave		$\boxtimes$	☐Green☐Other		
Trees marked to cut			⊠Orange □Other		
	TALLY INTI	ENSITIES			
SPECIES A	/ PRODUCT	RATIO			
Sawlogs of all species		100%			
		1 :			
		1:			
		1 :			

#### SPECIES TO FAVOR

Leave best tree in place. If encountered leave some pockets of beech unmarked.

#### **SPECIES TO Reduce**

None

#### SPECIAL MARKING INSTRUCTIONS

If a stick nest is encountered see attached timber sale prescription Appendix. Do not mark in or near areas where Hemlock is present. Ask sale administrator for further information.

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 Rick McDonald at (989) 983 4101, to make arrangements for paint.
- 2. Paint will be supplied from Pigeon River Country 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.
- GPS files for any GPS work.

# Pigeon River Country Management Unit Northern Hardwood Marking Stand 24

1. Access for marking this stand is shown on attached map.

The attached type map delineates the contract marking area.

Avoid using dead or badly damaged trees for boundary trees, they must last for the duration of the timber sale (up to 3-4 years).

Avoid using small (fast-growing) stems and those exposed to direct sunlight, for boundary trees, they must last for the duration of the timber sale (up to 3-4 years).

Marking must be done in dry weather and when tree surfaces are not wet.

Paint the boundary line in such a way that it can be seen both from the inside of the sale area and when walking along the line from either direction (two sides).

Place marks approximately six feet above the base of the tree.

The contractor will keep track of total quarts of paint used per-sale by color.

The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.

- 2. Select crop trees.
- 3. Crop trees are defined as trees which have the potential of making a grade one sawlog when they are harvested. A grade one sawlog is any tree capable of producing at least 16 feet of clear lumber. Commercial trees will be defined as any trees that contain at least one 100" sawlog or pulp stick. A crop tree can be ANY species of tree. Manage for the best tree in place at all times.
- 4. Locate 20 to 25 crop trees per acre spaced approximately 25 to 27 feet apart. In areas where 6" to 9" DBH trees predominate, the crop tree release will consist of creating a seven foot opening around the crown of the tree. This means that adjoining lesser quality dominants, co-dominants, and intermediates will have to be marked for removal. In areas where trees greater than 9" DBH predominate, the crop tree release will consist of removing the two nearest competitors from the dominant, co-dominant, and intermediate size classes.
- 5. After the crop tree has been selected and properly released, additional trees may have to be removed to reduce the basal area to the desired basal area. First remove high risk trees (esp. Eutypella canker) from the stand followed by trees from the subcanopy around the crop tree. Lastly, remove any other lesser quality intermediate and co-dominate tree from the stand to reduce the basal area to the desired basal area.
- 6. Create an average of two (2) ninety foot regeneration gap per acre. All trees one inch and greater in diameter must be marked in the regeneration gap. If pockets of advanced regeneration are found, these pockets should be released by removing surrounding trees
- 7. Do not mark obvious den trees or trees of declining vigor which may serve as future den trees.
- 8. Mark trees to cut on two opposite sides. Each tree marked to cut must be stump marked from ground level to at least 6 inches above the ground in a moss free area. Paint must also be applied to trees surfaces that are dry.
- 9. Do not mark within 100' of any raptor nest trees. Report these to the Contract Administrator as soon as possible and directions will be given at that time.
- 10. Marking of infrequently occurring species should be avoided. Consult the Contract Administrator for clarification.
- 11. Areas where Hemlock is present or predominate do not mark in these areas. See Contract Administrator for further instructions.

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