

TIMBER SALE PRESCRIPTION

				GENE	DΛI			
					FORMST MINERAL AND FIRE Management Unit Pigeon RIver MU			
Timber Sale Number (if applicable)				,	Sale Name (or prescription name) Heavy Snow Hardwoods			
						arawooab		
Name Rick McDonal	d and Don Mi	ttlestat			ONTACT Telephone (989) 983 -	· 4101		
						1101		
Email Address mittlesd@michigan.gov FAX Number (989) 983 - 3957								
⊠Map of Proj	ect Area Attac	hed						
			LE	EGAL DES	SCRIPTION			
T32N R1W Section(s) 5 NE; E1/2NW; NESW; and N1/2SE Section 4 SWNW; and NWSW								
Year of Entry:	2010 Compar	tment(s):	54 Stand Nu	ımber(s):	18			
	THIS	TIMBER S	ALE CONTRA	ACT IS BA	SED ON THE F	OLLOWING	ACREAGE	
Estimated Acre	es: 176 Sour	rce: 🖂OI	□GPS	Other				
Payment will be r	nade on the basis	of these e	stimated acres.	-				
			TRE	ATMENT	& OBJECTIVE			
STAND#	COVER TYPE	ACRES	ВА	TR	EATMENT	l	MANAGEMENT OBJECTIVE	
18	м9	176	130	Select	ion	Northern	Hardwoods	
				1				
				1				
				+				
_				+				
				PRESCR	RIPTION			
 Reduce stand basal area to 80 square feet using single tree selection/crop tree release marking techniques. See attached sheet. Manage for the best tree in place, however, do not mark: aspen, elm, cherry, hemlock, or other Conifers, or den trees and/or trees of poor vigor. Retain existing representation of all species currently within the hardwood stands. See attachment for further marking instructions. Access See attached map. CONTRACTOR WILL PROVIDE A LOCK TO BE PUT ON THE ACCESS GATE FOR ACCESS TO THIS CONTRACT. 								
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 August 15, 2010								

		PAINT LINE W	/ORK						
☑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		NOT APPLICABLE	PAINT COLOR						
Private boundary Sale boundary					Other:				
					Other:				
Sale cutting unit Stand type line					Other:				
and whv					Other:				
		and							
Standards for marking lines against private land. The north line of this sale is against private property. There are corners at the NW and NE corners of the section. The contractor must be sure to run the section line from corner to corner to insure that the north sale line is correctly placed. AREA CALCULATION									
☐ This is included in the bid ☐ This is not included in the bid									
				STA	ANDARD				
GPS String Chain Other									
	SString Chair	n <u></u> Other							
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									
ING UNITS	j				SPACING (CHAINS)				
		. 4	8	5 X 4					
				v					
OF CRUI	SE POINTS	Approx	z 84	X					
uctions: ea will d after e for pu	be required to the acreage has lpwood. Sawlog	be taken at e been determi s will be 100	ach cruise pl ned. % tallied.	lot. The	number of cruise plots				
	and why ng lines s sale is ctor muse ed. METHO GPO GPO GPO GPO In the bid A Factor: ns OF CRUI uctions: a will d after e for pu	work TO BE DONE WORK TO BE DONE WORK TO BE	work to be dependent of the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local work to be done in the experior med: (See attached map for local	work to be done Not applicable See attached map for locations) Work to be done Not applicable Seed Seed Red R	work to be done in the bid blue blue blue blue blue blue blue blue				

	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 med	eting with DNR staff					
Total Residual BA (Basal Ar	ea): 80 (Minimum 70 to Maxi	mum 90)					
TREA	TMENT	NUMBER	SIZE				
Regeneration Gaps Per Acre	e	3 to 5	30'to 60' opening in the crown				
Girdled Trees Per Acre							
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				
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR				
Trees marked to leave			☐Green ☐Other				
Trees marked to cut							
	TALLY INT	ENSITIES					
	/ PRODUCT	RATIO					
Sawlogs of all species		100%					
		1:					
		1:					
		1:					
SPECIES TO FAVOR							

Leave best tree in place. 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 Don Mittlestat or 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 HEAVY SNOW HARDWOODS

Compartment 54 Stand 18

- 1. Access for marking this stand is shown on attached map. The attached type map delineates the contract marking area.
- 2. For boundary line trees do the following:
 - Avoid using dead or badly damaged trees boundary trees 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.
 - 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 inside the sale area and when walking along the line from either direction (two sides). Please note there is a private boundary that must be painted
 - 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.
- 3. Select crop trees. 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. 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. (Commercial trees will be defined as any trees that contain at least one 100" sawlog or pulp stick.) 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 three to five 30 foot regeneration gaps per acre, 30' to 60' in diameter, except where high quality trees predominate. 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. Leave all aspen for future wildlife 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.

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