

TIMBER SALE PRESCRIPTION

GENERAL								
Date				Forest, Mineral and Fire Management Unit Pigeon RIver MU				
					Sale Name (or prescription name) LP Hardwoods			
LOCAL CONTACT								
Name Rick McDonald and Don Mittlestat Telephone (989) 983 - 4101								
Email Address mittlesd@micl	higan.gov				FAX Number (989) 983 - 3957			
⊠Map of Proj	ect Area Attac	hed						
				LEGAL DE	SCRIPTION			
	Section(s) 33					€		
Year of Entry: :	2010 Compai	tment(s):	15 Stand N	lumber(s):	67 and 68			
	THIS	TIMBER S	ALE CONT	RACT IS BA	SED ON THE	FOLLOWING	ACREAGE	
Estimated Acre			□GPS	Other				
Payment will be made on the basis of these estimated acres.								
STAND #	COVER TYPE	ACRES			& OBJECTIV		MANACEMENT OR JECTIVE	
STAND # 67			ВА		EATMENT		MANAGEMENT OBJECTIVE	
	M6	168		Select	ion	Northern I	Hardwoods	
68	A7	11	30	Final	Harvest	Aspen		
		 						
		 						
		 						
		 						
				DDECC	RIPTION			
 For stand 67, 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 any elm, cherry, hemlock, or other Conifers, or den trees or trees of poor vigor. Leave areas of Hemlock and Hardwoods as areas of retention Retain existing representation of all species currently within the hardwood stands. Clearcut the Aspen Management stand (68). Within the Aspen clearcut one area of retention of Approximately 0.5 acres will be required. See attachment for further marking instructions. Access Will be from Tin Bridge Road. See attached map. 								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK					ESTIMATED DATE			
CONTRACT WORK CAN BEGIN								
⊠Imme	•	ate:						
CONTRACT WO	ORK MUST RE	:OMPLET	FD RV Data	August 15 '	2008			

PAINT LINE WORK							
⊠This is included in the bid	☐This is not i	ncluded in the	bid				
Paint line work to be performed: (See attached map for locations)							
Talle line work to be performed		a map for loca					
TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE		PAINT COLOR			
Private boundary		\boxtimes	Blue	Other:			
Sale boundary	\boxtimes		⊠ Red	Other:	Other:		
Sale cutting unit	\boxtimes			Other:			
Stand type line		\boxtimes		Other:			
Exclusions to mark and why							
Standards for marking lines a	gainet private la	nd					
Not applicable.	gainst private ia	na					
		AREA CALCUL	ATION				
✓ This is included in the hid.	☐ This is not						
☐ This is included in the bid		included in the	e DIO				
UNIT METHO	D			STANDARD			
Sale ⊠GPS	☐String Chain	ı					
Payment Unit GPS	☐String Chain	n					
Stand GPS Special Instructions:	☐String Chain	□ Other					
TIMBER CRUISING SPECIFICATIONS							
☐ This is included in the bid	☐ This is not	included in the	e bid				
Required Basal Area Factor:	⊠10 □20	Other:					
•							
Cruise Line Directions							
CRUISING UNITS		NUMBER OF PLO	OTS PER ACRE	SPACING (CHAINS	j)		
Stands 67		Approxima	tely .49	4 X 5			
Stand 68		1		3 X 3 X			
				X			
				X			
TOTAL NUMBER OF CRUIS	E POINTS	Approx	x. 93				
Cruise Special Instructions: 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 stand (stand 67) and for pulp and sawlogs in the Aspen Management Unit (stand 68). Sawlogs in the Hardwood Unit will be 100% tallied. For stand 67, the cruise must keep Basswood and other hardwoods separate. Keep all species separate in the cruise of the Aspen Management Unit, stand 68.							

R4038 (Rev. 07/13/2006)

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

☑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 Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90) TREATMENT NUMBER SIZE Regeneration Gaps Per Acre 3 to 5 30′- 50′ crown Girdled Trees Per Acre 3 to 5 30′- 50′ 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 TYPE OF WORK WORK TO BE DONE NOT APPLICABLE PAINT COLOR Trees marked to leave ☐ Green ☐ Other Trees marked to cut ☐ Orange	i i	TIMBER MARKING	SPECIFICATIONS			
Total Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90) TREATMENT Regeneration Gaps Per Acre Girdled Trees Per Acre PRODUCT MARKING SYMBOL MINIMUM DBH TOP DIB Sawlogs Orange slash with dots Sawbolts N/A Pulpwood Orange slash TYPE OF WORK WORK TO BE DONE Trees marked to leave Trees marked to cut MINIMUM DBH TOP DIB N/A N/A N/A N/A N/A PAINT COLOR Trees marked to cut MOrange	⊠This is included in the bid	I ☐This is not included in t	he bid			
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Girdled Trees Per Acre PRODUCT MARKING SYMBOL MINIMUM DBH TOP DIB Sawlogs Orange slash with dots N/A N/A Pulpwood Orange slash TYPE OF WORK WORK TO BE DONE Trees marked to leave Trees marked to cut	TREA	TMENT	NUMBER	SIZE		
Sawlogs Orange slash with dots 10 inches 8 inches N/A N/A N/A Pulpwood Orange slash 5 inches TYPE OF WORK WORK TO BE DONE Trees marked to leave Green Other Trees marked to cut		3	3 to 5	30'- 50' crown		
Sawbolts N/A 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	PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB		
Pulpwood Orange slash 5 inches 4 inches TYPE OF WORK WORK TO BE DONE NOT APPLICABLE PAINT COLOR Trees marked to leave \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \] \[\inches \]	Sawlogs	Orange slash with dots	10 inches	8 inches		
TYPE OF WORK WORK TO BE DONE NOT APPLICABLE PAINT COLOR Trees marked to leave Green Other Trees marked to cut	Sawbolts	N/A	N/A	N/A		
Trees marked to leave Green Other Trees marked to cut	Pulpwood	Orange slash	5 inches	4 inches		
Trees marked to leave Green Other Trees marked to cut	TYPE OF WORK	WORK TO BE DONE	NOT ADDITION DE	DAINT COLOR		
Trees marked to cut		WORK TO BE DONE	NOT APPLICABLE	1		
Trees marked to cut	Trees marked to leave					
□ Other	Trees marked to cut			⊠Orange □Other		
TALLY INTENSITIES						
SPECIES / PRODUCT RATIO	SPECIES /	/ PRODUCT				
Sawlogs of all species 100%	Sawlogs of all species		100%			
1 :			1 :	·		
1 :			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).

<u>PAINT</u>

- 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 LP HARDWOODS Stand 67

- 1. Access for marking these stands 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 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.
- 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 3 to 5 thirty foot regeneration gap per acre, 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.
- 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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