

TIMBER SALE PRESCRIPTION

	GENERAL							
Date				Forest, Minera	Forest, Mineral and Fire Management Unit Pigeon River MU			
Timber Sale Numb	imber Sale Number (if applicable) Sale Name (or prescription nam 33 Hardwoods							
				LOCAL CONTACT				
Name Rick McDonald and Don Mittlestat Telephone (989) 983 - 4101					3 - 4101			
Email Address mittlesd@michigan.gov FAX Number (989) 983 - 3957					3 - 3957			
⊠Map of Proj	ect Area Attac	hed						
LEGAL DESCRIPTION								
					34 NE; NESE. SEC	C. 35 W1/2NW		
Year of Entry: 2 Year of Entry: 2			16 Stand Nu 17 Stand Nu	mber(s): 65, 66 and Imber: 70	d 68			
	THIS 1	TIMBER S	ALE CONTRA	CT IS BASED ON TH	E FOLLOWING ACREA	GE		
Estimated Acres: 142 Source: Sol GPS Other Payment will be made on the basis of these estimated acres.								
			TRE	ATMENT & OBJECTIV	/E			
STAND#	COVER TYPE	ACRES	BA	TREATMENT	MANAGE	MENT OBJECTIVE		
65 (C-16)	A6	7	120	Final Harvest	Aspen			
66 (C-16)	М6	63	120	Selection	Northern hardwoo	ods		
68 (C-16)	м9	21	120	Selection	Northern Hardwoo	ods		
70 (C-17)	М6	51	140	Thinning	Northern Hardwoo	ods		
1. Reduce stand basal area to 90 square feet using single tree selection/crop tree release marking techniques. See attached sheet. 2. 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. 3. Retain existing representation of all species currently within the hardwood stands. 4. Clearcut the Aspen Management stand. See contract Administrator for details on buffering lake. 5. See attachment for further marking instructions. Access See attached map. DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE								
CONTRACT WO	DRK CAN BEGIN	ı						
	ediately D		ED BY Date A	wayst 15, 2008				

		PAINT LINE V	VORK					
⊠This is included in	the bid \Box This is no	t included in the	bid					
Paint line work to be performed: (See attached map for locations)								
TYPE OF LINE	WORK TO BE DON	IF NOT ADDITION F		DAINT COLOD				
		WORK TO BE DONE NOT APPLICABLE			PAINT COLOR			
Private boundary				☐ Other:				
Sale boundary			⊠ Red	☐ Other:				
Sale cutting unit			⊠ Yellow	☐ Other:				
Stand type line Exclusions to mark a	and why	_		Other:				
Exclusions to mark t	ma wily							
	ng lines against private	land						
Not applicable.								
		AREA CALCUL	ATION					
oxtimes This is included in	in the bid \Box This is n	ot included in the	e bid					
UNIT	METHOD			STANDARD				
Sale	☑GPS ☐String Cha	ain 🗌 Other						
Payment Unit	☑GPS ☐String Cha	ain □Other						
Stand	☐GPS ☐String Cha	ain 🗌 Other						
Special Instructions:								
Sale map is to be p	produced at a scale	of one inch to	the ¼ mile.	Four inches equals a mil	е.			
	TIM	BER CRUISING SPI	ECIFICATIONS					
	the bid	ot included in the	e bid					
Required Basal Area	Factor: $\boxtimes 10$ $\square 20$	Other:						
Cruise Line Direction	ıs							
5. d.								
CRUISI	NG UNITS	NUMBER OF PLO	OTS PER ACRE	SPACING (CHAINS))			
Stands 66, 68 and		Approxima		3 X 6	,			
Stands 65		1		3 X 3				
				X				
				X				
TOTAL NUMBER	OF CRUISE POINTS	Approx	k. 84					
Cruise Special Instru								
	a will be required t			lot. The number of cruis	e plots			
	after the acreage h for pulpwood in the			lp and sawlogs in the Asp	en			
Management Unit. Sawlogs will be 100% tallied.								
The cruise must keep Basswood, and other hardwoods separate. Keep all species separate in the cruise of the Aspen Management Unit.								

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

	TIMBER MARKING	SPECIFICATIONS			
oxtimes This is included in the bio	d ☐This is not included in t	the bid			
oxtimes Precise specifications to	be delineated at pre-work med	eting with DNR staff			
Total Residual BA (Basal A	rea): 90 (Minimum 80 to Max	rimum <u>100</u>)			
TREA	ATMENT	NUMBER	SIZE		
Regeneration Gaps Per Acr Girdled Trees Per Acre	'e	1	30'to 60' 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 □ Other		
	TALLY INT	ENSITIES	B.1510		
	/ PRODUCT	RATIO			
Sawlogs of all species		100%			
		1:			
		1:			
CDECIEC TO FAVOR		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 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).
- Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.

3

GPS files for any GPS work.

Pigeon River Country Management Unit Northern Hardwood Marking 33 HARDWOODS Stands 66, 68 & 70

Access for marking these stands is shown on attached map.
 The attached type map delineates the contract marking area.
 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.

- 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. 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 one 30 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. 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.
- 11. Areas where Hemlock is present or predominate do not mark in these areas. See Contract Administrator for further instructions.