

TIMBER SALE PRESCRIPTION

				GEN	ERAL				
Date					Forest, Mineral and Fire Management Unit				
9/29/11					Shingleton Management Unit				
Timber Sale Number (if applicable)					Sale Name (or prescription name)				
						d Contract Ha	ardwoods		
N					CONTACT				
					Telephone				
						906) 452 - 6227 ext 240			
Email Address									
Burnhamr2@michigan.gov (906) 452-6584									
	Area Atta	ched			CODIDTION				
T47N R17W Sec	ction(s) 22	,27 &			SCRIPTION NWNW,		of 22, NENE, SENE, SWNW,		
NWSW, NENE, SENE	, NESE,	SESE of	27 And NE	NE of 34					
Year of Entry: 2012	Compa	rtment(s):	180 Stand	Number(s)): 8,35, 4	9			
	THIS	TIMBER S	ALE CONTR	RACT IS BA	SED ON T	HE FOLLOWING	ACREAGE		
Estimated Acres: 23	17 Sour	rce: 🗌 O	I ⊠ GPS	S □ Oth	er				
					J				
Payment will be made	on the basis	or these e			OD IECT	\/ =			
	00//50		IK	EAT WENT	& OBJECTI	VE			
STAND#	COVER TYPE	ACRES	ВА	TR	REATMENT		MANAGEMENT OBJECTIVE		
8 (Units 1-5)	М6	78	111-140	Select	ion	Northern	Hardwoods		
35 (Units 6-8)	М6	61	111-140	Select	ion	Northern	thern Hardwoods		
49 (Units 9-11)	М6	78	111-140	Select	ion	Northern	ern Hardwoods		
				PRESC	RIPTION				
Prescription pre-work me 2.Cruise all st Prescription pre-work me	on Append eeting. tands acc on Append eeting.	ix, timk cording t ix, timk	per markin co specifi per cruisi	ng specifications in specif	ications, listed in fications	and specifi	Contract Hardwoods c details obtained at the nd Contract Hardwoods ic details obtained at the		
Access: H-15 north to	o H-58, nort	theast on I	1-58 3.5 mile	s to Petrel r	oad		1		
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK							ESTIMATED DATE		
Sale Boundary Line in Red paint and Sale area Determination							Completed October 2011		
Blue line - private land lines Stand 8 only (Units 1,3 & 4 only)						6/15/12			
CONTRACT WORK	tely	Date:							
CONTRACT WORK	MUST BE C	COMPLET	ED BY Date	8/01/2012	2				

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PAINT LINE WORK								
☐ This is included in the bid ☐ This is not included in the bid								
Paint line work to be perform	ed: (See attach	ed map for loca	ions)					
TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE			PAINT COLOR			
Private boundary			Blue		Other:			
Sale boundary			Red		Other:			
Sale cutting unit			☐ Yellow		Other:			
Stand type line					Other:			
Exclusions to mark and why								
Standards for marking lines	Standards for marking lines against private land							
AREA CALCULATION								
This is included in the bid	XX This is not	included in the l	oid					
UNIT METHO	UNIT METHOD			S1	STANDARD			
Sale	S String Cha	ain 🗌 Other						
Payment Unit GP	GPS String Chain Other							
Stand GPS String Chain Other								
Special Instructions:								
		ER CRUISING SPE	CIFICATIONS					
igtherapsilon This is included in the bid	☐ This is no	t included in the	bid					
Required Basal Area Factor: 🛛 10 🔲 20 🔲 Other:								
Cruise Line Directions East-West								
CRUISING UNIT	S	NUMBER OF PLOTS PER ACRE		SPACING (CHAINS)				
Stand 8 (Units 1-5)	0.83		3 X 4					
Stand 35 (Units 6-8)		0.83		3 X 4				
Stand 49 (Units 9-11)		0.8	3	3 X 4				
TOTAL NUMBER OF CRUI	SE POINTS	18	1					

Cruise Special Instructions:

- 1. Each unit must be recorded on a separate cruise card so volume can be determined by unit.
- 2. Each cruise plot must be identified on the ground. A map showing the location of cruise plots must be turned in. The map scale must be 1:15840.
- 3. Residual BA by species must be tallied at each cruise plot, including hemlock, white pine, oak and cedar.
- 4. Do not cruise sawlog trees marked with an "X." There will be a 100% tally on log trees marked with an "X".
- 5. Pulpwood species grouping:
- Mixed hardwood pulp (maple, birch, ash, basswood, ironwood and cherry pulpwood)
- All beech must be tallied separately
- Mixed aspen pulpwood (quaking, bigtooth and balsam poplar)
- All other trees must be cruised by species.

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

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	o be delineated at pre-work mo al BA (Basal Area): See Appe	=	ment Objectives			
TREA	TMENT	NUMBER	SIZE			
Regeneration Gaps Per Acr Girdled Trees Per Acre	е	1 n/a	70 ft in diameter n/a			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB			
Sawlogs	'X' on 2 opposite sides and 6' above ground level, plus one 3" dot per 8' log	11.1 inches	10 inches			
Pulpwood	Diagonal slash on 2 opposite sides, 6' above ground level	4.6 inches	4 inches			
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR			
Trees marked to leave			☐ Green ☐ Other			
Trees marked to cut						
		TENSITIES				
	/ PRODUCT	RATIO				
All Sawlogs		1 : 1 by species and	unit			

SPECIAL MARKING INSTRUCTIONS

- Additional pulpwood volume larger than 10 inches, top DIB, occurring in sawlog trees must be recorded on tally cards supplied by the Local Contact.
- Avoid marking during wet weather conditions, or when tree boles are damp. Paint must last for the duration of the timber sale.
- Each unit must be tallied and summarized separately.

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

RESTRICTIONS

- 1. Forest 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 Robert Tylka at (906) 452 6227, to make arrangements for paint.
- 2. Paint will be supplied from Shingleton.
- 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.

MELSTRAND CONTRACT HARDWOODS TIMBER SALE PRESCRIPTION APPENDIX

When Registered Corners or Witness Trees are discovered:

- Any wooden posts encountered at corners must also be painted/protected.
- Bearing and/or witness trees discovered during the course of sale preparation must be protected. This can be accomplished by painting a ring completely around the tree at 4-6 feet above ground level with either red paint (corner surrounded by state lands). In addition, tying ribbon on these trees helps alert loggers to their presence. Do not mark any trees for harvest if cutting them is likely to result in damage to corner monuments and/or bearing trees.
- Please report the condition of all corners, posts and bearing trees to the local contact.

Stand(s) 8, 35 and 49

Management Objective: All Aged Northern Hardwoods (Mark to Cut)

When marking, prioritize selection of trees to be cut in the following order:

- 1. Release suitable crop trees. (Refer to <u>The Complete Marker</u> for crop tree specifications.)
- 2. When appropriate, try to increase the number of lesser occurring species such as yellow birch, hemlock and white pine. Local contact can provide an explanation of this priority.
- 3. Remove high-risk and poor quality trees.
- 4. All beech are designated for removal. Mark better quality or resistant trees to leave. At a minimum, mark 2 beech per acre, if they are available. All of the volume for beech is determined with a point sample cruise.
- 5. Maintain target basal area.
- 6. Maintain all species diversity.
- 7. Where aspen clones are present, mark to regenerate and expand.

Reserved Species:

- No hemlock, white pine, oak or cedar can be marked. Avoid marking other trees if harvesting them is likely to result in damage to these reserved species.
- Marking of infrequently occurring species should be avoided. Consult the local contact for clarification.
- Leave 2-4 large, live cull trees per acre for den trees and soft snag production. Reserved tree species may also be used for this purpose. These should be well distributed.
- Do not mark within 100' of any raptor nest trees. Report these to the local contact as soon as possible and directions will be given at that time.

The contractor should contact Robert Burnham, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 X240 once the contract is awarded. Approximately 1-2 weeks prior to beginning work, the contractor should also contact the DNR's local contract administrator (Robert Tylka, 906-452-6227 x241) to arrange an on-site meeting to discuss the details of these prescriptions. Paperwork should be completed and all of the necessary reports submitted to the Unit secretary as soon as possible after the fieldwork is complete.

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