

TIMBER SALE PRESCRIPTION

				GEN	ERAL			
Date Forest Resources Division							agement Unit	
						ingleton Management Unit		
						sale Name (or prescription name)		
					,	tshore Hardwoods		
				LOCAL	ONTACT			
Name				LOOKE	Telephone			
Robert Burnham		-6227 ext 24	10					
Email Address		- 022/ EXL 24	:0					
BurnhamR2@michi	lgan.gov				(906) 452 -	6584		
⊠ Map of Projec	t Area Attach	ed		-041 DE	20DIDTION			
T41N:42N R17W SESE, Section 3					SCRIPTION tion 1: NE	E, E1/2NW, N	11/2SE, SESE Section 12:	
Year of Entry: 2014 Compartment(s):81 Stand Number(s): 15, 26								
	THIS TIM	IBER SA	LE CONTRA	CT IS BA	SED ON TH	F FOLLOWING	ACREAGE	
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE Estimated Acres: 235 Source: OI Separate Of Other Payment will be made on the basis of these estimated acres. TREATMENT & OBJECTIVE								
OTAND "	OOVED TVDE	40050				/IE	MANAGEMENT OF JECTIVE	
STAND #	COVER TYPE	ACRES	ВА	TR	EATMENT		MANAGEMENT OBJECTIVE	
15 (Units 1-5)	м9	205	111-140	Select	ion	Northern	Hardwoods	
26 (Unit 6)	м9	30	141-170	Select	ion	Northern	Hardwoods	
20 (01110 0)	1112	30	141 170	DCICCO	1011	NOTCHCEH	Harawoods	
		 		1				
Appendix, meeting. 2. Cruise all	timber mark stands acco timber crui	ing spe ording sing sp	ecification to specifi pecificatio	ntions l ns, and cations	specific s listed in d specific	details obton	re Hardwoods Prescription ained at the pre-work nore Hardwoods Prescription tained at the pre-work (Westshore Rd).	
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE							ESTIMATED DATE	
Sale Boundaries, Payment Unit Lines and Area Determination						Completed October 2012		
CONTRACT WORK	iately 🔲 Da		D. D. Deste	0./27./07				
CONTRACT WORK MUST BE COMPLETED BY Date: 8/31/2013								

		PAINT LINE W	ORK						
☐ This is included in the bid ☐ This is <u>not</u> 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	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 against private land:									
		AREA CALCUL	ATION						
\Box This is included in the bid \boxtimes This is <u>not</u> included in the bid									
UNIT METHO	METHOD STANDARD								
Sale GP	☐ GPS ☐ String Chain ☐ Other								
	GPS String Chain Other								
Stand GP									
Special Instructions:	C Caming Crian	in Other							
·									
TIMBER CRUISING SPECIFICATIONS									
oximes This is included in the bid $oxdot$ This is not included in the bid									
Required Basal Area Factor: 🛛 10 🔲 20 🔲 Other:									
Required Basal Area Factor: 10 20 Other:									
Cruise Line Directions: East-West									
CRUISING UNIT	S	NUMBER OF PLO	TS PER ACRE	SPACING (CHAINS)					
Units 1-6	-	0.		4 x 5					
		<u> </u>	<u>~</u>						
TOTAL NUMBER OF CRUIS	11	າ							

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 these cruise plots must be turned in. Scale on map must be 1:15840.
- 3. Residual basal area by species must be tallied at each cruise plot. Borderline residual trees do not have to be measured, but every other borderline residual tree should be counted.
- 4. Do not cruise trees which were marked with an "X" designating log trees. There will be a 100% tally on log trees marked with an "X".
- 5. All beech and ash trees will be designated for harvest.
- 6. Pulpwood species grouping: mixed hardwood pulpwood (maple, yellow birch, and cherry pulpwood) any beech and ash must be tallied separately and mixed aspen pulpwood (quaking and bigtooth). All other trees must be cruised by species.

Unless otherwise specified, the tally sheets used must be those supplied by the Forest Resources Division Management Unit.

	TIMBER MARKING S	SPECIFICATIONS			
$oxed{oxed}$ This is included in the bi	d	the bid			
□ Precise specifications to	be delineated at pre-work mee	eting with DNR staff			
Total Merchantable Residua	al BA (Basal Area): 80 (Minimu	ım <u>70</u> to Maximum <u>90</u>)			
TREA	ATMENT	NUMBER	SIZE		
Regeneration Gaps Per Acre	e:	1	50-75 feet in diameter		
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		
Beech Leave Trees	Slash 4 sides, 6' above ground level	Appx. 1 per acre			
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave			☐ Green☐ Other		
Trees marked to cut	ees marked to cut				
	TALLY INTE	NSITIES			
	/ PRODUCT	RATIO			
inch DIB top. Tallied by	y species.	1:1			
Pulp topwood (to 10 inch	DIB) - tallied by species	1 : 1			
All pulpwood trees		No tally, see cruising instructions.			

SPECIAL MARKING INSTRUCTIONS:

- 1. Additional pulpwood volume larger than 10 inches, top DIB, occurring in sawlog trees must be recorded on tally cards supplied by the Local Contact.
- 2. Avoid marking during wet weather conditions, or when tree boles are damp. Paint must last for the duration of the timber sale.
- 3. Each unit must be tallied and summarized separately.
- 4. Look for beech bark resistant trees. These trees should be marked to leave with green paint.
- 5. Look for beech trees that have been used in the past by bears (evidence of claw marks).

 Beech trees that have evidence of bear claw marks should be marked to leave in green paint.
- 6. Do not mark any hemlock, cedar or oak.
- 7. Since beech will be designated there will be areas that will fall below the targeted BA.

Unless otherwise specified, the tally sheets used must be those provided by the Forest Resources Division Management Unit.

RESTRICTIONS

- 1. Forest Resources 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 Adam Petrelius at (906) 341 8463, to make arrangements for paint.
- 2. Paint will be supplied from Wyman Nursery.
- 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. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
- 3. Cruise cards and cruise maps showing locations of all cruise plots in a payment unit.

Westshore Hardwoods Timber Prescription Appendix

Stand 15, 26 (Units 1-6)

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 Compleat Marker</u> for crop tree specifications.)
- 2. Remove high value, high-risk, and poor quality trees.
- 3. Maintain target basal area.
- 4. Maintain all species diversity.

Reserved Species:

- Do not mark hemlock and oak. 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.
- Leave beech bark resistant trees and those beech trees that have been heavily used by bears in the past (evidence of claw marks). Total amount of beech left should be approximately one per acre.

Designated species:

All beech and ash will be designated for harvest unless marked in green paint. Beech trees marked in green should be those
that show signs of resistance to BBD, these are usually characterized by smooth bark and have little scale present. In
addition, those trees that are heavy mast producers which are evident by bear claw markings should be marked in green as
well

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 (Adam Petrelius, 906-341-8463) 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.

4 of 4 R4038 (Rev. 06/21/2012)