

## TIMBER SALE PRESCRIPTION

GENERAL								
Date Forest, Mineral and Fire Manag						ement Unit		
10/12/2012 Shingleton Management								
Timber Sale Numb			, ,	ale Name (or prescription name)				
C161 Beech Select								
LOCAL CONTACT Name Telephone								
Bob Burnham		0						
Email Address		27 ext 240						
Burnhamb2@mi	chigan.gov							
Burnhamb2@michigan.gov (906) 452-6584   Map of Project Area Attached								
LEGAL DESCRIPTION  T46N R16W Section(s) 5,8,9 and 16 Description Sec5- NENW, SENW, NWNE, SENE, NESW, SESW, NWSE, SWSE, NESE, SESE Sec8- NWNE, SWNE, NENE, SENE, NESE Sec9- SWNW, SENW, SWSW, SWSW, NESW,								
Year of Entry: 2	2014 <b>Compa</b> r	tment(s):	161 Stand Nu	umber(s):10,11,19,22,3	2.33.46			
	-	• • •				ACREACE		
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE  Estimated Acres: 441 Source: OI GPS Other  Payment will be made on the basis of these estimated acres.  TREATMENT & OBJECTIVE								
STAND#	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE		
10	M6	79	80	3		Hardwoods		
11	M6	9	80	Salvage-beech		Hardwoods		
19	M6	28	120			n Hardwoods		
22	M6	93	120	Selection	Northern	rn Hardwoods		
32	Мб	34	120	Selection	Northern	ern Hardwoods		
33	М6	186	120	Selection	Northern	thern Hardwoods		
46	М6	12	120	Selection PRESCRIPTION	Northern	Hardwoods		
<ol> <li>Establish red boundary and yellow unit lines as indicated on the attached map. All paint lines must be located using a GPS in accordance with the sale preparation contract.</li> <li>Mark all stands according to specifications listed in the 161 Hardwood Prescription Appendix, timber marking specifications, and specific details obtained at the pre-work meeting.</li> <li>Cruise all stands according to specifications listed in the 161 Hardwood Prescription Appendix, timber cruising specifications, and specific details obtained at the pre-work meeting.</li> </ol> Access: M-28 to Creighton Truck Trail, continue north on Creighton Truck Trail approximately 3 miles.								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK						ESTIMATED DATE		
Private lines Painted in blue paint						4/1/13		
CONTRACT WORK CAN BEGIN  Immediately Date:  CONTRACT WORK MUST BE COMPLETED BY Date 9/1/2013								

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PAINT LINE WORK									
<u> </u>									
☑ This is included in the bid  ☐ This is not included in the bid									
Paint line work to be performed: (See attached map for locations)									
TVDE OF LINE	WORK TO BE DONE	NOT ARRIVOARI E		DAINT COLOR					
TYPE OF LINE	WORK TO BE DONE			PAINT COLOR					
Private boundary			Blue		Other:				
Sale boundary			Red		Other:				
Sale cutting unit				_	Other:				
Stand type line					Other:				
Exclusions to mark	and why								
	ng lines against private								
	loosely in with old remed by DNR surveyors.		final blue li	nes will	be painted by DNR a	after			
corners are confir	illed by DNR surveyors.	AREA CALCUL	ATION						
		AREA CALCUL	ATION						
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UNIT	METHOD			STA	STANDARD				
Sale	☐ GPS ☐ String Cha	ain Other		See	contract requiremen	nts			
Payment Unit	☐ GPS ☐ String Cha			See	contract requirement	nts			
Stand	☐ GPS ☐ String Cha	_			contract requirement	nts			
Special Instructions	:			•					
	nes. Area must be								
	ent with contract s GPS files must be s					L			
inoview and all				<i>D</i> <sub>1</sub>	r c marr.				
TIMBER CRUISING SPECIFICATIONS									
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Demissed Book Aver	- Fastari M 40	O							
Required Basal Area	a Factor: ⊠ 10 ☐ 20	0							
Cruise Line Directio	<b>NS</b> East-West								
				_					
CRUIS	ING UNITS	NUMBER OF PLO	OTS PER ACRE		SPACING (CHAINS)				
Stand 10 & 11 (t	Jnit 1)	. '	6	4 X 4	X 4				
Stand 19,22,32,33	& 46 (Units 2-7)		4	5 x 5					
TOTAL NUMBER	OF CRUISE POINTS	195							
Cruise Special Instru				1					
1. Each unit must	be recorded on a sepa					_			
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.									
proce mast be carr	rea in. Scare on map i	ust De 1.15840	<i>)</i> .						

- 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 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, Mineral and Fire Management Unit.

	TIMBER MARKING SPEC	CIFICATIONS			
$oxed{oxed}$ This is included in the b	id $\square$ This is not included in the I	bid			
□ Precise specifications to	b be delineated at pre-work meeting	with DNR staff			
<u> </u>	al BA (Basal Area): 70 (Minimum 6	=	appendix		
TF	REATMENT	NUMBER	SIZE		
Regeneration Gaps Per Ac	·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 ft 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			<ul><li>☑ Orange</li><li>☑ Other</li></ul>		
	TALLY INTENSI	TIES			
	ES / PRODUCT		RATIO		
10 inch DIB top.	.ll be tallied by species to a	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, 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 Mario Molin at (906) 452 6227 ext 240, 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.
- 4. GPS files for any GPS work.

## Compartment 157 CONTRACTORS TIMBER SALE PRESCRIPTION APPENDIX

## When establishing paint lines:

- Avoid using dead or badly damaged trees boundary trees must last for the duration of the timber sale (up to 5-6 years).
- Favor the use of reserved species such as hemlock, oak or lesser occurring species.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.
- Mark Unit lines so they can be seen from all sides

## 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) or blue paint (corner on private property boundary line). 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) 19,22,32,33 & 46 Management Objective All Aged Northern Hardwoods (Mark to Cut) Stands 10 and 11 Management objective is All Aged Northern Hardwoods (Beech removal)Cruise Stands and mark leave trees.

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

- 1. Release suitable crop trees. (Refer to The Complete Marker 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. Maintain target basal area; lower basal areas are acceptable in areas with heavy beech component.
- 5. Maintain all species diversity.
- 6. Promote Black Cherry regeneration, mark all trees within one tree length around selected Black Cherry tree.

## **Reserved Species:**

- Do not mark any hemlock, oak or cedar. 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 Bob Burnham, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 once the contract is awarded so a local contact can be assigned. Approximately 1-2 weeks prior to beginning work, the contractor should also contact the DNR's local contact administrator (Mario Molin) 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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