

# TIMBER SALE PRESCRIPTION

GENERAL										
Date					Forest, Mineral and Fire Management Unit					
10/12/2012				Shingleton Management Unit						
Timber Sale Number (if applicable)				,	Sale Name (or prescription name)					
				C157 Beech	ļ					
Name				LOCAL CONTACT Telephone						
Name Robert Burnham		6227 and 27	4.0							
Email Address		6227 ext 24	10							
Burnhamr2@michi	igan gov		6594							
				(906) 452 -	3304					
⊠ Map of Project Area Attached										
LEGAL DESCRIPTION										
T46N R16W Section(s) 22 & 27 Description 22-NWNW, NENW, NWNE, SENW, SWNE, NWSE, NESE, SESE, SWSE. 27-NENE, NESE										
Year of Entry: 201	4 Compartm	nent(s):1	57 Stand N	umber(s): 45 & 56						
,	•			CT IS BASED ON THI	E EOLL OWING	ACREAGE				
					- I OLLOWING	SACKLAGE				
Estimated Acres:	210 Source	::   <u> </u>    OI	☐ GPS	U Other						
Payment will be mad	le on the basis of	these est	imated acres.							
			TRE	TMENT & OBJECTIV	E					
STAND#	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE				
45 (Unit 1)	м9	32	110	Selection	Northern	Hardwoods				
56 (Units 2-5)	м6	178	100	Selection	Northern	Hardwoods				
				PRESCRIPTION						
<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 157 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 157 Hardwood Prescription Appendix, timber cruising specifications, and specific details obtained at the pre-work meeting.</li> </ol>										
Note: Units 2 a	and 5 will n	eed min	imal marki	ng and are more of	of a salvage	e type harvest.				
		,		O						
Access: M-28 to Creighton Truck Trail, continue north on Creighton Truck Trail approximately 0.6 miles.										
DNR PREF	PARATION WOI	ESTIMATED DATE								
Private lines B	Painted in b	Complete								
						r				
CONTRACT WORK CAN BEGIN										
☐ Immediately ☐ Date:										
CONTRACT WORK MUST BE COMPLETED BY Date 9/1/2013										

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			PAINT LINE V	VORK					
Paint line work to be performed: (See attached map for locations)									
TYPE OF LINE		WORK TO BE DONE	NOT APPLICABLE		PAINT COLOR				
Private boundary	oundary		$\boxtimes$	⊠ Blue	☐ Other:				
Sale boundary	le boundary			⊠Red	☐ Other:				
Sale cutting unit	lle cutting unit				☐ Other:				
Stand type line					Other:				
Standards for marking lines against private land All blue line work has been completed by DNR Staff.									
			AREA CALCUL	ATION					
☐ This is included in the bid ☐ This is not included in the bid									
UNIT	METHO	OD OC			STANDARD				
Sale	⊠ GP	S String Cha	ain 🗌 Other		See contract requirements				
Payment Unit	⊠ GP	S String Cha	ain 🗌 Other		See contract requirements				
Stand	⊠ GP	S String Cha	ain		See contract requirements				
Special Instructions:  GPS all paint lines. Area must be determined for each individual payment unit using a GPS unit consistent with contract specifications. GPS files must be compatible with Arcview and all GPS files must be sent to the local contact by CD or e-mail.									
		TIMB	ER CRUISING SP	ECIFICATIONS					
$oxed{\boxtimes}$ This is included in	the bid	$\square$ This is no	ot included in the	e bid					
Poguirod Rasal Area	Eactor:	⊠ 10     □ 20	Other:						
Required Basal Area	ractor.		∪ Uther.						
Cruise Line Direction	<b>S</b> East	-West							
CRUISIN	IG LINIT	S	NUMBER OF PLO	OTS PER ACRE	SPACING (CHAINS)				
Units 1-5	10 01111		NOMBER OF TE		4 x 5				
011108 1-3			•	<u> </u>	T A 3				
TOTAL NUMBER (	OF CRUIS	SE POINTS	10	)5					
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 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	IFICATIONS						
☐ This is included in the bire	d $\;\;\square$ This is not included in the $\mathfrak k$	oid						
☑ Precise specifications to be delineated at pre-work meeting with DNR staff								
·	ıal BA (Basal Area): 70 (Minimum 6		e appendix					
TR	EATMENT	NUMBER	SIZE					
Regeneration Gaps Per Acro	)	1	50-75' 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			☑ Orange ☐ Other					
	TALLY INTENSIT	TIES						
= = = = = = = = = = = = = = = = = = = =	S / PRODUCT		RATIO					
Sawlogs - All sawlogs will 10 inch DIB top. Tallied	ll be tallied by species to a by 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, 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 245, 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) 45 and 56 Management Objective All Aged Northern Hardwoods (Mark to Cut)

Stand 45 and 56 (Units 1, 3 and 4) target BA is 70 with an acceptable range of 60-80 BA.

Stand 56 (Units 2 and 5) has the same target BA but there will be limited marking in these Units since these Units were recently harvested and is mostly salvage.

## 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.

# **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 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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