

# TIMBER SALE PRESCRIPTION

				GENERAL			
Date					Forest, Mineral and Fire Management Unit		
8/10/2008				Shingleton Management			
Timber Sale Numb	oer (if applicable)			Sale Name (or prescription name	<del>)</del>		
				Lund Contract			
				LOCAL CONTACT			
Name				Telephone	~		
Adam Petreli	us			(906) 341 - 8463	3 /		
Email Address				FAX	FAX		
petrelia@mic	higan.gov			(906) 341 - 8344	(906) 341 - 8344		
⊠ Map of Project Area Attached							
			LE	EGAL DESCRIPTION			
<b>T</b> 44N <b>R</b> 15W	Section(s) 1-	3,10-1	2 Descrip	tion See Map			
Year of Entry:	2003,2009 <b>C</b>	ompartm	ent(s):23:24	Stand(s): 10,11:66,65,58,9,53,	5,26,19,6,33,24,31,23,25		
	THIS	TIMBER S	ALE CONTRA	ACT IS BASED ON THE FOLLOWING	ACREAGE		
		0	5 12				
Estimated Acre	es: 641 Sou	rce: 🔀 Ol	I ☐ GPS	Other			
Dayment will be	e made on the b	acie of the	ese estimated	acres			
ayment will be	e made on the b	4313 01 111	ese estimated	dores			
			TRE	ATMENT & OBJECTIVE			
STAND#	COVER TYPE	ACRES	ВА	TREATMENT	MANAGEMENT OBJECTIVE		
5	M9	45	120	Selection	М		
6	M9	210	140	Selection	М		
9	M9	23	120	Selection	М		
10	M9	78	120	Selection	M		
11	M9	12	140	Selection	М		
19	M9	9	120	Selection	M		
23	M9	9		Selection	M		
24	M9		120	Selection	М		
25	M9	2	120	Selection	M		
26	M6	49	140	Clearcut with Reserves	M		
31	M9	5	120	Selection	M		
33	M6		120	Selection Challenger	M		
53	W9			Shelterwood-Seed	W		
58 65	M6 R9	5	100	Clearcut with Reserves Thinning	M R		
66	R9		130	Thinning	R		
00	11.5		150	TITITITITI	11		
				PRESCRIPTION			
1. Establish all paint lines as indicated on the attached map. All paint lines must be located using a GPS in accordance with the sale preparation contract.  2. Mark all stands according to specifications listed in the Lund Contract prescription appendix,							
timber marking specifications, and specific details obtained at the pre-work meeting.  3. Cruise all stands according to specifications listed in the Lund Contract prescription							
appendi meeting		uising s	specificati	ons, and specific details obt	ained at the pre-work		
	ting. The ea	sement p		a a private road (DNR holds m se of the road through Michae			
			BE DONE PRI	OR TO CONTRACT WORK	None		
CONTRACT WORK CAN BEGIN							
☐ Imr	Immediately Date: 10/1/08						
CONTRACT WORK MUST BE COMPLETED BY Date 8/1/2009							

PAINT LINE WORK								
oxtime This is included in the bid $oxtime$ This is not 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				
Private boundary	$\boxtimes$		⊠ Blue	☐ Other:				
Sale boundary	$\boxtimes$		⊠ Red	Other:				
Sale cutting unit	$\boxtimes$			☐ Other:				
Stand type line	$\boxtimes$		Xellow	Other:				
Within stands 33,24,31,9,53,5,26,19,10 sale boundary should be placed a minimum of 100 feet from water's edge on Hickey Creek and Section 19 Creek. All areas labeled as retention patches on the attached map shall be excluded with red paint. A seasonal drainage located within stand 66 must have its centerline marked with green paint. This paint line must be visible from all sides and traversed with a GPS.  Standards for marking lines against private land  Private line is about ¼ mile long and borders stands 33 and 24. Adjacent private land has been harvested, and portions of property line are painted. Re-paint property line with blue paint facing state land.  AREA CALCULATION								
☐ This is included in the bid		included in the	e DIO					
UNIT METHO	10 199743			STANDARD				
Sale		<u> </u>		See contract requirements				
Payment Unit				See contract requirements				
	II paint lines. Area cations. GPS files ocal contact by CD	must be detern must be compa	itible with Arcview or F	See contract requirements  ual payment unit using a GPS unit  Pathfinder Office Software and all				
☑ This is included in the bid ☐ This is not included in the bid Required Basal Area Factor: ☑ 10 ☐ 20 ☐ Other: Cruise Line Directions None								
CRUISING UNIT	<u>s</u>	NUMBER OF	PLOTS PER ACRE	SPACING (CHAINS)				
Stands 65,66,53,33,26		1		3 X 3				
Stand 58		.75 3 X 4						
Stands 9,5,19,10,11,6,24,3	and a second second		. 4	5 X 5				
TOTAL NUMBER OF CRUIS Cruise Special Instructions:	3E POINTS	3	343**	Spacing specific to unit				
1. Each unit must be record. Each cruise plot must be plots must be turned in.	pe identified of Scale on map mu species must be d, but every ot ich were marked	n the ground. st be 1:15840 e tallied at her borderlin	A map showing the . each cruise plot. e residual tree sh	Borderline residual trees				

- 5. Species grouping: mixed hardwood pulpwood (maple, yellow birch, ash, beech, and cherry pulpwood) and mixed aspen pulpwood (quaking and bigtooth). All other trees must be cruised by species.
- 6. No hemlock, oak or cedar will be cut. These species should be counted as residual basal area.

\*\*Cruise plots may decrease or increase depending on actual GPS acres.

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

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TIMBER MARKING SPECIFICATIONS  ☑ This is included in the bid ☐ This is not included in the bid									
☑ Precise specifications to be delineated at pre-work meeting with DNR staff									
Total Merchantable Residual BA (Basal Area):									
Stands 5,6,9,10,11,19,23,	24, 25, 31, 33 <b>70 (M</b>	linimum <u>60</u> to Maximum <u>80</u> )							
Stands 58	10 (M	linimum <u>o</u> to Maximum <u>20</u> )							
Stands 65,66	80 (M	linimum <u>70</u> to Maximum <u>90</u> )							
Stand 53	40 (M	linimum <u>30</u> to Maximum <u>50</u> )							
Stand 26	20 (M	inimum <u>10</u> to Maximum <u>30</u> )							
TREA1	<b>IMENT</b>	NUMBER	SIZE						
Regeneration Gaps Per Acre	9	3-5 per acre	Minimum 30 feet						
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB						
Sawlogs	X on 2 sides, 6 feet up, and dot per 8 ft log	11.1 inches	10 inches						
Pulpwood	Slash on 2 sides, 6 feet up	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	$\boxtimes$		☑ Orange ☑ Other						
TALLY INTENSITIES									
SPECIES /		RATIO							
	l be tallied by species.								
Sawlog topwood (to 10 ind species	ch DIB) - tallied by	1 : 1							
All pulpwood quality tree	es	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. Trees marked to leave A complete ring of paint must be place around the tree so it is visible from all directions. Stump marks are also mandatory.
- 4. Each unit must be tallied and summarized separately.
- 5. DO NOT MARK ANY HEMLOCK, OAK OR CEDAR FOR HARVEST.

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 Adam Petrelius at (906) 341 8463, to make arrangements for paint as soon as possible after contract is awarded.
- 2. Paint will be supplied from the 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. A summary of paint used (in guarts or gallons).
- 3. Tally summaries and cruise 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.

#### Lund Contract 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.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.

#### 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 prescriptions (stands 5, 6, 9, 10, 11, 19, 23, 24, 25, 31, and 33):

Mark to cut with a target of 70 basal area. Within stands 5, 6, 9, 10 and 19, white pine and red pine may be marked. Within stands 23, 24, 25, 31 and 33, do not mark any conifer species unless needed for operability.

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. The Local Contact can provide an explanation of this priority.
- 3. Remove high-risk and poor quality trees.
- 4. Maintain target basal area.
- 5. Maintain all species diversity.

The management objective is all-aged northern hardwood.

#### Stands 65 and 66

Mark to cut red pine and white pine with a target of 80 basal area in those portions of the stand currently above 80 basal area. Management objective is red pine, and white pine is the preferred species to mark where available. All other species are designated to be cut except reserved species. Leave 1-2 supercanopy red pine and white pine per acre.

#### Stand 58

Mark to cut red pine and white pine with a target of 10 basal area. The highest quality red pine and white pine sawlogs should be removed from the stand first. Residual red pine and white pine should be a mixture of younger poles and large supercanopy seed trees. All other species are designated to be cut except reserved species.

#### Stand 53

Mark to cut red pine and white pine with a target of 40 basal area. All other species are designated to be cut except reserved species.

#### Stand 26

Mark to leave 20 basal area. Trees marked in green paint to leave should be large supercanopy white pine and large pulp quality hardwood trees which exhibit high wildlife values. All other trees except reserved species are to be cut. Sawlog trees will be marked with orange paint and designated with an 'X' and dots corresponding to the number of sawlogs in each tree. Stump marks are not required. All other trees must be cruised.

### Reserved Species:

- No hemlock, Oak or Cedar can be cut. 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 Jeff Stampfly, Unit Manager, at the Shingleton Field Office, PO Box 67, M-28, Shingleton, MI 49884 (906) 452-6227 ext. 240 once the contract is awarded so a Local Contact can be assigned. Approximately 1 week prior to beginning work, the contractor will notify the Unit Manager or Local Contact to arrange a 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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