

# MICHIGAN DEPARTMENT OF NATURAL RESOURCES FOREST, MINERAL AND FIRE MANAGEMENT

# **TIMBER SALE PRESCRIPTION**

				GEN	ERAL				
<b>Date</b> 8-28-2009			Forest, Mineral and Fire Management Unit Crystal Falls Forest Management Unit						
Timber Sale Number (if applicable)					Sale Name (or prescription name)				
Wolf Den Contract									
				LOCAL (	CONTACT				
Telephone Number (906) 875 - 6622					<b>FAX Number</b> (906) 875 - 3336				
Name Linda Lindberg					Email Address lindberl@michigan.gov.				
	roject Area Atta	ached							
			L	EGAL DE	SCRIPTION				
T44 R28 \$	Section(s) 21,2	2,27,28	Description	on					
Year of Entry: 2010 Compartment(s):34 Stand Number(s): 18, 19, 29,									
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE									
Estimated Acres: 252 Source:  OI  GPS  Other									
Payment will be	made on the basis	s of these e	stimated acres						
			TRE	ATMENT	& OBJECTIVE				
STAND#	COVER TYPE	ACRES	ВА		REATMENT		MANAGEMENT OBJECTIVE		
19	м6	29	120*	Thinni	ng	Мб			
18	Мб	106	110*	Thinni	ng	М6	M6		
29	М6	117	120*	Thinni	ng	М6			
	_								
				DDESC	RIPTION				
1 0 3	11			PRESC	KIPTION				
<b>1.</b> See Attac <b>2</b> .*Basal Ar		ated fro	om limited	plots d	uring Opera	tions Inv	ventory and are variable.		
3.					5 11 1		1		
4.									
5. 6.									
Access:									
DNR F	PREPARATION V	VORK TO	BE DONE PR	IOR TO C	ONTRACT WO	RK	ESTIMATED DATE		
Stands GPSe	d and lines p	ainted i	n all star	nds.			09/01/2009		
CONTRACT W	ORK CAN BEGI	N:							
☐ Im	mediately 🖂	Date: 10/	1/09						
CONTRACT W	ORK MUST BE	COMPLET	ED BY: Date	08/15/20	10				

		PAINT LINE V	TORIC			
☐ This is included in the bid	⊠ This is not	included in the	e bid			
Paint line work to be perform	ed: (See attache	d map for loca	tions)			
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:		
Standards for marking lines a	against private la	nd:				
		AREA CALCUL	.ATION			
☐ This is included in the bid	⊠ This is not	included in the	e bid			
UNIT	METHOD			STANDARD		
Sale GPS	String Chain	Other				
Payment Unit GPS	String Chain	Other				
Stand GPS Special Instructions:	☐ String Chain	Other				
☑ This is included in the bid Required Basal Area Factor:	☐ This is not	R CRUISING SP included in the Other:				
Cruise Line Directions:						
CRUISING UNITS		NUMBER OF PL	OTS PER ACRE	SPACING (CHAINS)		
A1, A2, A3		1		2 X 5		
B1, B2		1	2 X 5			
C		1		2 X 5		
				X		
identify one unit at a tir	irection makes ne. For exampl	e A1 should b	e cruised se	1 plot per acre. Please cruise and parately from A2 and so on.  Mineral and Fire Management Unit		

R 4038 (04/01/2003)

NG SPECIFICATIONS					
d in the bid					
meeting with DNR staff					
Maximum 90)					
NUMBER	SIZE				
3	30 ft.				
MINIMUM DBH	TOP DIB				
11	10				
5	4				
NOT APPLICABLE	PAINT COLOR				
	☐ Green ☐ Other				
	☑ Orange				
	Other				
INTENSITIES	RATIO				
1:1					
1 :					
1:					
here are some but leave	larger mature ash for seed				
	Maximum 90) NUMBER  MINIMUM DBH  11  5  NOT APPLICABLE  INTENSITIES  1 : 1 1 : 1 1 : 1 1 : 1				

- 1. Call Linda at (906) 875 6622, to make arrangements for paint.
- 2. Paint will be supplied from the Crystal Falls Office.
- 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.

#### Wolf Den Contract

These are all fairly good hardwood stands with considerable variability in the stands. Where there are more logs, it should be a select cut and marked from above. Concentrate on choosing crop trees and thinning around them, taking out the two most competitors if the crop tree is over 8 inches and thinning around smaller diameter crop trees to 7 feet or so all the way around. Mark these stands, thinking about the best tree in place and try not to cut trees that are not overly abundant in the stand. There are not many cherry trees in any of the stands; any found should be kept if they are healthy. No oak, hemlock cedar or elm cut should be cut. There is some ash in some of the stands. The good ash logs should be taken. Poor quality logs should be left for seed. If there are no logs, they can be marked accordingly. No marking should take place in the vernal ponds. Where there are some oak, thin around them enough to get new regeneration. There should be two den trees left per acre if they are present and two aspen left per acre if they are present. If there is a pocket of aspen, you can either take them all or leave some and take some. Some spruce and balsam can be left in the stands if present, harvest the mature spruce/balsam and leave the younger ones. If there is a slope, skid trails should be fashioned perpendicular to the slope so machinery can get up and down the hills. The goal in these stands is to leave 53 crop trees per acre is they are present and/or leave a Basal Area of 80 to 90 square feet. Clumps of trees which are all growing out of the same stump should either all be cut or all left. Basswood clumps may be thinned on the side a processor can best access. The basic goal is to thin the stand and leave the best tree in place to grow taller and larger in diameter. The goal is to accomplish this by taking the high risk trees that will not make it to the next thinning and to then thin what is left. There is at least one corner in these stands that should be avoided ...including the bearing trees. When found this corner should be painted with Blue paint on the bearing trees. If blue paint is needed the DNR will supply. No line trees should be marked.

#### Wolf Den Contract TIMBER SALE PRESCRIPTION APPENDIX

#### When establishing paint lines:

• The attached type map delineates the contract marking area.

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#### 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 Contract Administrator (CA).

#### When Cruising:

- Data must be recorded so volume can be determined by stand. If a stand is split into 2 or more payment units, each unit must be recorded separately. In addition, all data must be summarized by species or species grouping by payment unit.
- All saw logs must be 100% tallied by species and diameter.
- Within all marked stands, cruise all marked pulpwood tree species that will yield one or more 100" pulpwood sticks with a minimum top diameter of four (4) inches DIB. Contact the Contract Administrator to see what grouping of pulpwood is acceptable.
- Within all marked stands, residual basal area (merchantable sized trees by species) at each plot must also be recorded on the cruise sheets. Plot centers must be marked according to contract specifications and correspond to a legible 1:15840 scale cruise map. Cruise specifications may be altered as necessary by the Contract Administrator.

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

- 1. Release suitable crop trees. (Refer to  $\underline{\text{The Compleat Marker}}$  for crop tree specifications.)
- 2. When appropriate, try to increase the number of lesser occurring species such as beech in areas of high bear use. The Contract Administrator can provide an explanation of this priority.
- 3. Remove high-risk, poor quality and trees with poor crowns.
- 4. Maintain target basal area.
- 5. Maintain all species diversity.

#### Reserved Species:

- Do not mark within 100' of any raptor nest trees. Report these to the Contract Administrator as soon as possible and directions will be given at that time.
- Marking of infrequently occurring species should be avoided. Consult the Contract Administrator for clarification.