

MICHIGAN DEPARTMENT OF NATURAL RESOURCES FOREST, MINERAL AND FIRE MANAGEMENT

TIMBER SALE PRESCRIPTION

				GENERAL					
Date 10/04/06				Forest Manageme Atlanta Unit	Forest Management Unit Atlanta Unit				
Timber Sale Num	ber (if applicable)			Sale Name (or prescription name) Compartment 59 HDWD				
LOCAL CONTACT									
	elephone Number 989) 785-4251 x 5241 FAX Number (989) 785-3513								
Name Cody Stevens				Email Address stevencn@mich	Email Address stevencn@michigan.gov				
Map of Proj	ect Area Attach	ed							
			LE	GAL DESCRIPTION					
T32N R01E Section(s) 32 & 33 Description: 32: SESE 33: S1/2SW, NWSW									
Year of Entry: 2007 Compartment(s): 59 Stand Number(s): 68									
	THIS '	TIMBER S		CT IS BASED ON THE F	OLLOWING ACREAGE				
Estimated Acres: 70 Source: 🗵 OI 🔲 GPS 🔲 Other Actual Acres: Source: 🗆 OI 🔲 GPS 🗀 Other Total Acres: 70									
Payment will be r	made on the basis	of these es							
			TREA	TMENT & OBJECTIVE					
STAND#	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE				
68	M6	70	130	Selection Cut	Northern Hardwoods				
				PRESCRIPTION					
				·	, mark to 80 BA, tally logs and cruise pulp. and while the stand is access by 2-tracks f	rom			
	lline Lake Road.								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE									
All work in the Compartment will be done by Contractor.									
CONTRACT WO	ORK CAN BEGIN	1 :							
☐ Immediately ☐ Date:									
CONTRACT WORK MUST BE COMPLETED BY: Date 08/15/2007									

		PAINT LINE	WORK				
☐ This is included in							
Paint line work to be p	erformed: (See attached ma	p for locations)					
TYPE OF LINE	WORK TO BE DONE	WORK TO BE DONE NOT APPLICABLE			PAINT COLOR		
Private boundary			⊠ Blue		Other:		
Sale boundary			⊠ Red		Other:		
Sale cutting unit					Other:		
Stand type line			☐ Yellow		Other:		
Exclusions to mark an	_		1	<u> </u>			
Contractor will put in a	all sale and unit boundary lines	Refer to the co	ontract and attach	ed appendix	for detailed instructions.		
Standards for marking	g lines against private land:						
Canadias for marking	y mios agamsi private ialia.						
See Contract Specifica	tions 1-B,7.a.						
		AREA CALCU	LATION				
	the bid	ided in the bid					
UNIT	1	STANDARD					
Sale	METHOD ☑ GPS ☐ String Chain [Other		317	ANDAND		
Payment Unit	☐ GPS ☐ String Chain [Other					
Stand		☐ Other					
Special Instructions:		_ Other					
contract. These	yment units will need t files need to be turned 5840 will be used to in	in as corre dicate the p	cted files on lot locations	n a 3.5" d	disk. The corrected map		
	TIMBE	R CRUISING SI	PECIFICATIONS				
☐ This is included in	the bid 🔲 This is not inclu	ided in the bid					
Required Basal Area F	Factor: 🛛 10 🔲 20 Ot	her:					
Cruise Line Directions	3:East-West & North-Sout	th					
	SING UNITS	NUMBER OF PLOTS PER ACRE			SPACING (CHAINS)		
All Payment Units	SING UNITS	0.83		3 X 4	·		
AII Payment Units		0.	0.3	3 4) A 4		
				+			
TOTAL NUMBER	R OF CRUISE POINTS	ļ	55				
Cruise Special Instruc							
	ract and attached appen	dix for deta	iled instruct	ions.			
Halaa ad da d	was described to the state of t	- 4 - 41	B-464 =		d Fine Mana (17.7)		
uniess otherwise speci	ified, the tally sheets used mus	st be those supp	iled by the Fores	i, Mineral an	a Fire Management Unit.		

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R 4038 (03/17/2003)

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 Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90) Stands: 68									
Total Residual BA (Basal Area): (Minimum to Maximum) Stands:									
TREA	TMENT	NUMBER	SIZE						
Regeneration Gaps Per Acre in	Stands: 68	3-5 per acre	Minimum of 30 ft						
Girdled Trees Per Acre		NA	NA						
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB						
Sawlogs	X and dot per 8ft log	10 inches	8 inches						
Sawbolts	NA	NA	NA						
Pulpwood	slash	4.6 inches	4 inches						
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR						
Trees marked to leave	WORK TO BE DOINE	NOT APPLICABLE	Green						
Trees marked to leave			Other						
Trees marked to cut		<u> </u>	☐ Other ☐ Orange						
Trees marked to cut			☐ Other						
	TALLY IN	TENSITIES							
SPECIES /	PRODUCT	R	ATIO						
Sawlogs		1:1							
Pulpwood: see cruising s	section								
SPECIES TO FAVOR:									
Contact LCA for stand spe	ecific information.								
SPECIES TO FAVOR: Contact LCA									
SPECIAL MARKING INSTRUCT	IONS ·								
See attached Appendix and contact LCA.									
Unless otherwise specified the	tally sheets used must be those p	royidad by the Forest Mineral an	ud Eiro Managomont Unit						
onless otherwise specified, the t	ally sheets used must be mose p	Tovided by the Forest, Milleral an	d Fire Management Onit.						
RESTRICTIONS:									
· · · · · · · · · · · · · · · · ·	sion must to be able to identify who								
	more than two markers in one pay								
3. Each marker should have an assigned area to mark (not strips).									
PAINT:									
1. Call Cody Stevens at (989) 785 - 4251 ext 5241, to make arrangements for paint.									
2. Paint will be supplied from (location).									
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:									
A list of names that marked or cruised each payment unit.									
 A summary of paint used in quarts. Tally summaries for each payment unit (one summary regardless of the number of markers) and all of the original tally sheets. 									
 Taily summaries for each payment unit (one summary regardless of the number of markers) and all of the original taily sheets. GPS files for any GPS work. 									
4. GPS files for any GPS work.									

Compartment 59 HDWD Contract TIMBER SALE PRESCRIPTION APPENDIX

When establishing paint lines:

- The attached type map delineates the contract marking area.
- Avoid using dead or badly damaged trees boundary trees must last for the duration of the timber sale (up to 3-4 years).
- Favor the use of reserved species such as cedar or oak.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.
- Marking must be done in dry weather and when tree surfaces are not wet.
- Paint the boundary line in such a way that it can be seen both from the inside of the sale area and when walking along the line from either direction (two sides). Each boundary line tree must be stump-marked, at the base of the stump (one side) between the roots extending all the way to the ground.
- Place marks approximately six feet above the base of the tree.
- The contractor will keep track of total quarts of paint used per-sale by color.
- The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.
- GPS units used must be compatible with Pathfinder Office (2.01 or later) and capable of producing a Trimble .COR file format. Supply a disk of the traverse file along with a hard copy of the corrected traverse file.
- Position Mode must be set so that GPS receiver collects data from a minimum of four satellites. This must be recorded in the position properties window after downloading.
- Positions deliver ODS (over determine system) data. 2D position will not be acceptable.
- The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
- PDOP mask must be less than or equal to 8.
- SNR setting must be less than or equal to 4.
- Sale boundaries are to be recorded as an area feature, not a line.
- Payment Unit lines may be recorded as a line feature bisecting the sale.

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 LCA.

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 LCA 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. Borderline residual trees do not have to be measured, but every other borderline tree should be counted.
- 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 LCA

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

- 1. Release suitable crop trees. (Refer to $\underline{\text{The Complete Marker}}$ 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. LCA 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 LCA as soon as possible and directions will be given at that time.
- Marking of infrequently occurring species should be avoided. Consult the LCA for clarification.