

### TIMBER SALE PRESCRIPTION

				GENERAL				
Date		d Fire Management Unit						
01/12/09 Trav				Traverse City	raverse City			
Timber Sale Nu	mber Sale Number (if applicable)  Sale Name (or pre			scription name)				
				Compartment 22 F	Compartment 22 RPP			
	LOCAL CONTACT							
Name				Telephone				
Scott Lint	·							
Email Address				FAX				
LintS@michigar	n.gov			(231) 922 - 1853				
	901			((201) 022 1000				
				CAL DESCRIPTION				
LEGAL DESCRIPTION  T25N R13W Section(s) 7 Description NWNE								
Year of Entry: 2004 Compartment(s):22 Stand Number(s): 52								
	TUIC	TIMPED C	ALE CONTRAC	CT IS BASED ON THE FOI	LOWING ACREAGE			
	11119	HIMIDER 3/			LOWING ACKEAGE			
Estimated Acres	s: 38 Source:	⊠ oı 🔲	GPS  Oth	er				
Payment will h	e made on the b	asis of the	se estimated :	acres				
ayment will b	e made on the b	מסוס טו נוופ		TMENT & OBJECTIVE				
CTAND #	COVER TYPE	ACDEC			MANACEMENT OR JECTIVE			
STAND#	COVER TYPE	ACRES	ВА	TREATMENT	MANAGEMENT OBJECTIVE			
52	R9	38	120	Final harvest	Red Pine			
					_			
4 0: 150	=:			PRESCRIPTION				
	<ul> <li>Final harvest.</li> </ul>							
2.								
3.								
4. 5.								
_								
6. 7.								
7. 8.								
	Thompsonville ao	north on C	ounty road 669	(Thompsonville Hwy ) 4.5	miles to Milnichol Road. Turn right on Milnichol			
Road go east 0.		1101111 011 0	ourny road ooo	(Thompsonvino Tiwy.) To	Times to Millioner Read. Tarri right on Millioner			
Trodd go oddr o.o mile.								
DNR P	REPARATION W	ORK TO P	SE DONE PRIO	R TO CONTRACT WORK	ESTIMATED DATE			
N/A								
		-						
CONTRACT WORK CAN BEGIN								
	·							
CONTRACT WORK MUST BE COMPLETED BY Date: July 15, 2009								

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PAINT LINE WORK								
□ This is included in the bid □ This is not included in the bid								
Paint line work to be performed: (See attached map for locations)								
i ant mie work to be performed. (See attached map for locations)								
TYPE OF LINE	WORK TO BE DONE		NOT APPLICABLE		PAINT COLOR			
Private boundary				⊠ Blue	Other:	Other:		
Sale boundary			☐ ⊠ Red		Other:			
Sale cutting unit					Other:	_		
Retention				Green		Other:		
Exclusions to mark	and why:							
Standards for marki	na lines :	against private l	and					
Otania ao ioi marki	ng mioo (	agamot privato i	ana					
			AREA CALCUI	ATION				
☐ This is included in the bid ☐ This is not included in the bid								
UNIT	METHO	OD			STANDARD	)		
Sale	⊠ GP	S String Cha	ain 🗌 Other					
Payment Unit	☐ GPS ☐ String Chain ☐ Other							
Retention	☐ GPS ☐ String Chain ☐ Other							
				ale area and for ea	ach stand, payment	unit. Unit lines must be		
recorded as line feature	recorded as line features.							
See APPENDIX A								
		TIMB	ER CRUISING SP	<b>ECIFICATIONS</b>				
⊠ This is included i	in the bid	I ☐ This is no	t included in th	e bid				
Required Basal Area	- Factor:	□ 10  □ 20	Other:					
Required basar Area	a Factor.		∪ Otner.					
Cruise Line Directio	ns E/S							
CRUIS	SING UNITS		NUMBER OF PL	OTS PER ACRE	SPAC	CING (CHAINS)		
Stand 52			1		3 X 3			
					X			
					X	_		
TOTAL NUMBER			3			_		
Cruise Special Instru	uctions:	Cruise all species	s separately. Se	parate cruise da	ta by stand.			
   See APPENDIX 8 (will be provided upon request) and APPENDIX B								
Union otherwise see	find the te	illy oboets used	ot he there	and butter France	Minoral and Fire **	onegoment II-:t		
Unless otherwise speci	nea. the ta	iiiv sneets usea mu	ISI DE TNOSE SUDDI	eu by the Forest.	witheral and Fire Ma	anagement Unit.		

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	HMBER MARKING	SPECIFICATIONS			
☐ This is included in the bid	d 🛛 This is not included in	1 the bid			
☐ Precise specifications to	be delineated at pre-work me	eeting with DNR staff			
Total Merchantable Residua	I BA (Basal Area): (Mi	nimum to Maximum	)		
TREAT	<b>IMENT</b>	NUMBER	SIZE		
Regeneration Gaps Per Acre Girdled Trees Per Acre	)				
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB		
Sawlogs					
Sawbolts					
Pulpwood					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave			☐ Green ☐ Other		
Trees marked to cut			☐ Orange ☐ Other		
	TALLY IN	TENSITIES			
SPECIES /	PRODUCT	RATIO			
		1 :			
		1:			
		1:			
		1:			
SPECIAL MARKING INSTRU	CTIONS				

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 Scott Lint at (231) 922 -5280 ext. 6844, to make arrangements for paint.
- 2. Paint will be supplied at DNR Traverse City Field Office (and picked-up by Contractor from that 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**

- 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.

## Traverse City Management Unit Boundary Marking and Area Calculation

- 1. The attached type map delineates the contract marking area.
- 2. Marking must be done in dry weather and when tree surfaces are not wet.
- 3. Paint the boundary line in such a way that it can be seen from both 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.
- 4. Paint a unit line which will constitute the payment unit boundary, dividing the sale into payment units, as shown on the attached map.
- 5. Place marks approximately six feet above the base of the tree.
- 6. The contractor will keep track of total quarts of paint used per sale by color.
- 7. 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.
- 8. GPS units used must be compatible with Pathfinder Office (2.01 or later) or be capable of producing an ArcView-compatible shapefile. Supply electronic and paper copies of the corrected and edited (outlier/erroneous points cleaned up) GPS file.
- 9. Position Mode must be set so that the GPS receiver collects data from a minimum of four satellites. This must be recorded in the position properties window after downloading.
- 10. The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
- 11. PDOP mask must be less than or equal to 8.
- 12. SNR setting must be greater than or equal to 4.
- 13. Sale boundaries are to be recorded as an area feature, not a line. Isolated stands must each be recorded as separate area features. Retention islands must also be recorded as area features.
- 14. Payment Unit lines must be recorded as a line feature bisecting the sale.

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# Traverse City Management Unit Timber Cruising Specifications

- Cruise designated timber using Appendix 8 Product Standards to determine products and heights of products. Separate cruise data by species/product. Appendix 8 will be provided upon request.
- 2. Cruise at the sampling intensity specified in the Timber Sale Prescription and apply that rate to your actual GPS'd stand acreage.
- 3. Separate cruise data by stand.
- 4. Use a 20-factor prism.
- 5. Mark location of plots on the map, using the plot number.
- Record residual BA of trees where applicable. Record any mark-to-girdle trees separately. Do not count mark-to-girdle trees toward the specified residual BA target.
- 7. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with a ribbon attached to it at a height of not less than two feet above the ground, and labeled with the PU/stand number and plot number. In addition, ribbon at least 12 inches long must be attached to the tree closest to plot center.
- 8. All cruise sheets must be labeled with the compartment #, stand #, unit #, prism factor, date, individual tree species, and the cruiser's name. If a portable data recorder is used for cruising, submit a summary sheet that details the rest of the required information.
- 9. The Traverse City Management Unit Office will provide cruise sheets.
- 10. If using TCruise, contractor must provide tce and tcd files, along with Solo way. Files. If cruising with paper cruse sheets a copy of the "POSALE" program will be provided to the successful bidder for cruise data entry. Original cruise sheets and an electronic copy of the cruise data exported from POSALE must be delivered upon the completion of the sale. Note: At the cruise data entry screen in POSALE, when prompted to enter the stand acres, enter your actual GPSed acres NOT the contract's estimated inventory-based acreage. Also, if retention islands were delineated within the sale area, do not include those acres in the entered POSALE stand acres.