



## TIMBER SALE PRESCRIPTION

### GENERAL

Date 01/05/09	Forest, Mineral and Fire Management Unit Traverse City
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 16 RPP

### LOCAL CONTACT

Name Scott Lint	Telephone (231) 922 -5280
Email Address LintS@michigan.gov	FAX (231) 922 - 1853

### LEGAL DESCRIPTION

T26N R13W Section(s) 19 & 31 Description NENW, W1/2NW – SEC 19, S1/2SW – SEC 31

Year of Entry: 2005 Compartment(s):16 Stand Number(s): 65 & 107

### THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 37 Source:  OI  GPS  Other \_\_\_\_\_

**Payment will be made on the basis of these estimated acres.**

### TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
65	R6	22	130	Final harvest	Red Pine
107	R6	15	110	Final harvest	Red Pine

### PRESCRIPTION

1. Stand 65 & 107 – Final harvest
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

**Access** From the intersection of County road 669 (Thompsonville Hwy) and U.S. 31 go south on County road 669 (Thompsonville Hwy.) 1.25 miles to stand 107. To stand 65 continue south on (Thompsonville Hwy) 2.75 miles to the intersection of Aylsworth road.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
N/A	

**CONTRACT WORK CAN BEGIN**  
 Immediately  Date:  
**CONTRACT WORK MUST BE COMPLETED BY** Date: **June 30, 2009**

**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)**

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Private boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Blue <input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red <input type="checkbox"/> Other:
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow <input type="checkbox"/> Other:
Retention	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other:

**Exclusions to mark and why:**

**Standards for marking lines against private land**

**AREA CALCULATION**

This is included in the bid     This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Retention	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

**Special Instructions:** GPS files must provide acreage for the total sale area and for each stand, payment unit and retention island. Unit lines must be recorded as line features. Retention islands must be recorded as area features and clumps as point features.

See APPENDIX A

**TIMBER CRUISING SPECIFICATIONS**

This is included in the bid     This is not included in the bid

**Required Basal Area Factor:**     10     20     Other:

**Cruise Line Directions**    E/S

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 65	1	3.1 X 3.2
Stand 107	1	3.1 X 3.2
		X
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>	37	

**Cruise Special Instructions:** Cruise all species separately. Separate cruise data by stand.

See APPENDIX 8 (will be provided upon request) and APPENDIX B

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

**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): \_\_\_\_\_ (Minimum \_\_\_\_\_ to Maximum \_\_\_\_\_)

TREATMENT	NUMBER	SIZE
Regeneration Gaps Per Acre		
Girdled Trees Per Acre		
PRODUCT	MARKING SYMBOL	MINIMUM DBH
Sawlogs		
Sawbolts		
Pulpwood		

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
	1 :
	1 :
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

For retention in stands 65 & 107, mark-to-leave 9 clumps of 4 trees in each stand concentrated along (Thompsonville Hwy) and near the private boundaries.

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, to make arrangements for paint.
2. Paint will be supplied from the Traverse City Field 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.

## **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.

## Traverse City Management Unit Timber Cruising Specifications

1. 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.
6. 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 cruise 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.