



TIMBER SALE PRESCRIPTION

GENERAL

Date 12/22/08	Forest, Mineral and Fire Management Unit Baldwin FO
Timber Sale Number (if applicable) 63-012-09-01	Sale Name (or prescription name) State Pine

LOCAL CONTACT

Name Cheryl Nelson	Telephone (231) 745 - 4651
Email Address nelsonca@michigan.gov	FAX (231) 745 - 4743

Map of Project Area Attached

LEGAL DESCRIPTION

T19N R12W Section(s) 36 Description SE

Year of Entry: 2009 Compartment(s):15 Stand Number(s): 42

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 86 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
42	W6	86	130	Thin	White Pine, Red Pine

PRESCRIPTION

1. **Stand 42:** Marking white pine to cut, leaving an avg. residual BA of 90 SF. Retention is included in the residual BA.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Access See attached map.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date: 09/15/09

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

1) GPS units must be compatible with ArcView or Pathfinder software. A CD of the traverse shapefile (.shp) and/or corrected file (.cor) must be supplied to the DNR office. Alternatives to the CD include emailing the file(s) or providing the office with a flash drive.

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

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Unit 1	1	3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

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): 90 SF (Minimum 80SF to Maximum 100SF)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		2	100 Feet
Girdled Trees Per Acre		0	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash	10.0 inches	8.0 inches
Sawbolts	N/A		
Pulpwood	Slash	4.6 Inches	4.0 inches

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

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

SPECIAL MARKING INSTRUCTIONS

Thin by marking orange above and below stump height on two sides of the tree. Thin by first marking out skid trails for access then mark between trails using the standard order of removal. Target a residual BA of 90 sf. Canopy gaps should be made in areas with aspen, jack pine and other opportunistic areas

STANDARD ORDER OF REMOVAL FOR SELECTION THINNING IN PINE

1. HIGH RISK TREES
2. RELEASE CROP TREES
3. RELEASE CODOMANT OAK
4. CULL TREES
5. LOW VIGOR
6. IMPROVE SPACING

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 Cheryl at (231) 745 - 4651 ext. 6942, to make arrangements for paint.
2. Paint will be supplied from Baldwin.
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.

State Pine – Contractor 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.
- Avoid using small (fast growing) stems and those exposed to direct sunlight.
- Marking must be done in dry weather and when the trees are not wet.
- Paint the boundary line in such a way that it can be seen from the inside of the sale as well when walking along the line from either direction.
- Lines should be four and a half feet above the base of the tree.

When Registered Corners or Witness Trees Are Discovered

- Any wooden posts encountered at corners must 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 the ground.
- Please report corner condition to the local contact.

When Cruising

- Residual basal area must be recorded.
- Plot centers must be marked on cruise map with a scale of 1:15840 or larger (i.e., 1:7920).
- Plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with ribbon attached to it at a height of not less than two feet above the ground, and labeled with the plot number. In addition, ribbon at least 12 inches long must be attached to a tree closest to plot center.