



# TIMBER SALE PRESCRIPTION

GENERAL	
Date 10/12/2012	Forest, Mineral and Fire Management Unit Sault Ste Marie Management Unit
Timber Sale Number (if applicable) 45-101-13-01	Sale Name (or prescription name) Bruders Hardwoods

LOCAL CONTACT	
Name Cory Luoto - Matt Edison	Telephone (906) 477-6048 ext 2070, ext 2060
Email Address <a href="mailto:luotoc@michigan.gov">luotoc@michigan.gov</a> , <a href="mailto:edisonm@michigan.gov">edisonm@michigan.gov</a>	FAX (906) 477-6864

Map of Project Area Attached

LEGAL DESCRIPTION
T41N R11W Section(s) 5 Description 5: E1/2NW, S1/2NE, N1/2SW, N1/2SE ; 6:NESE

Year of Entry: 2013 Compartment(s):198 Stand Number(s): 69,76, 85 and 90

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

Estimated Acres: 161 Source:  OI  GPS  Other GIS  
 Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
69	LM9	10	111-140	Selection	Mixed Lowland with Cedar
76	M9	35	111-140	Selection	Northern Hardwoods
85	M9	104	111-140	Selection	Northern Hardwoods
90	M9	11	111-140	Selection	Northern Hardwoods

**PRESCRIPTION**

1. Mark all stands according to specifications listed in the timber marking specifications, and specific details obtained at the pre-work meeting.
2. Cruise all stands according to specifications listed in the timber cruising specifications, and specific details obtained at the pre-work meeting.
3. All cutting and payment boundary paint lines are to be painted by the contractor in the approximate locations as shown on the map. The exterior line will be painted in red adjacent to state land and blue adjacent to private land. The unit lines are to be painted in yellow paint as shown on the map. Area determination has to be done for all units by contractor for the treatment area. All payment units are to be used as separate marking units and marking and cruise sheets will be separated and summarized by units as shown on the map.

**Access:** Primary access South Gould City Road and Bruders Lake Road. See the enclosed map for specific locations.

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 **9/01/2013**

**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:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> Other:

**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	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

**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**    East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 69,76,85, & 90 Units 1-5	0.5	5 X 4
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>	80	

**Cruise Special Instructions:**

1. Each unit must be recorded on a separate cruise card so volume can be determined by unit.
2. Each cruise plot must be identified on the ground. A map showing the location of these cruise plots must be turned in. Scale on map must be 1:15840.
3. Residual basal area by species must be tallied at each cruise plot, including hemlock and cedar.
4. Do not cruise trees which were marked with an "X" designating log trees. There will be a 100% tally on log trees marked with an "X".
5. Species grouping:
  - mixed hardwood pulpwood (maple, yellow birch, and cherry pulpwood)
  - any beech and ash must be tallied separately
  - cruise all mixed aspen as pulpwood (quaking & bigtooth aspen, balsam poplar).
  - All other trees must be cruised by species.

**Unless otherwise specified, the tally sheets used must be those supplied by the Forest Resources Division.**

**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):** 80 (units 1 - 5) (Minimum 70 to Maximum 90)  
Lower BA's will be allowed in areas heavy to beech.

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		3-5	30 ft in diameter
Girdled Trees Per Acre		n/a	n/a
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	'X' on 2 opposite sides and 6' above ground level, plus one 3" dot per 8' log	11.1 inches	10 inches
Pulpwood	Diagonal slash on 2 opposite sides, 6' above ground level	4.6 inches	4 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
Mixed species of sawlog quality	1 : 1 by species and unit

**SPECIAL MARKING INSTRUCTIONS**

- Two sided marking on all marked trees.
- Mark all sawlog trees with an "X" with dots to correspond with the number of sawlogs tallied.
- In stands 69, 76, 85 and 90, maintain stand diversity by leaving some beech, yellow birch, and black cherry. Leave all hemlock, cedar, and white pine. Leave the best tree in place.
- Favor (leave) the best future crop tree in place, regardless of species.
- Mark stand to improve maneuverability within the stand for logging operations to occur.
- Beech Bark Disease is found on the beech trees throughout the stand. While marking, evaluate and mark beech that has been attacked by the beech scale disease but still has merchantable value.
- If hawk nests are discovered within the stand while marking, contact the Naubinway Office.
- Leave obvious nest or den trees, retain potential wildlife trees if none are present.
- Above marking items will be discussed at pre-work meeting

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

**RESTRICTIONS**

- Forest Resources Division must to be able to identify who did what on the timber sale.
- The contractor may not have more than two markers in one payment unit without prior approval.
- Each marker should have an assigned area to mark (not strips).

**PAINT**

- Call Cory Luoto or Matt Edison at (906) 477-6048 – x2070 or x2060 to make arrangements for paint.
- Paint will be supplied from Naubinway.
- Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- 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.