



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 8/29/2008	Forest, Mineral and Fire Management Unit GRMUN (Indian River)
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 159 Contract

## LOCAL CONTACT

Name Shannon Harig	Telephone (231) 238 - 9313 ext 4742
Email Address harigs@Michigan.gov	FAX (231) 238 - 6757

Map of Project Area Attached

## LEGAL DESCRIPTION

T33N R03W Section(s) 24 Description NE1/4, SE1/4, E1/2NW, NESW

Year of Entry: 2009 Compartment(s):159 Stand Number(s): 2, 3, 5, 9, 104

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

Estimated Acres: 243 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
2	A6	42	100	Clearcut	Aspen
3	M6	58	120	Thinning	Northern Hardwood
5	M6	25	150	Thinning	Northern Hardwood
9	M6	109	130	Thinning	Northern Hardwood
104	A6	9	90	Clearcut	Aspen

## PRESCRIPTION

1. Stand 2: Clearcut. Leave two 1-2 acre retention pockets.
2. Stand 104: Clearcut.
3. Stands 3, 5, 9:  
Reduce stand BA to 80 using single tree selection/crop tree release marking techniques.  
Retain 2-3 12"DBH + trees/acre of declining vigor(cull) to serve as future den trees.
- 4.
- 5.
- 6.
- 7.
- 8.

**Access** 1 mile south of Wolverine on Old 27 to Shire Rd. then south 1 mile.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Blue painted private boundary.	10/31/2008

## CONTRACT WORK CAN BEGIN

Immediately  Date: 11/1/08

**CONTRACT WORK MUST BE COMPLETED BY** Date 07/24/2009

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

**Exclusions to mark and why**

In stand 2, two retention pockets approximately 1-2 acres in size must be delineated with red paint and gps'd.

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

**Special Instructions:**

Must provide administrator with shapefile and acreage of sale area and cutting units.

**TIMBER CRUISING SPECIFICATIONS** This is included in the bid     This is not included in the bidRequired Basal Area Factor:  10     20     Other:**Cruise Line Directions**

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
2	1 point / acre	3 X 3
3, 5	1 point / 1.2 acres	4 X 3
9	1 point / 1.6 acres	4 X 4
104	1 point / 1 acre	3 X 3
<b>TOTAL NUMBER OF CRUISE POINTS</b>		

**Cruise Special Instructions:**

Stands 2 and 104: Cruise all species seperately.

Stands 3, 5, 9: Only pulpwood will be cruised, sawlogs are 100% tallied. Sugar Maple, Red Maple, White Birch, Beech and Black Cherry pulp can be combined as mixed hardwood. All other pulp species (White Ash, Basswood, aspen) must be cruised separately. Residual BA must be tallied at each cruise point.

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):** 80 (Minimum 70 to Maximum 90)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre		1-2	12"+
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	2 slashes w/ dot	12 inches	10 inches
Sawbolts	N.A.	N.A.	N.A.
Pulpwood	slash	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
Sawlogs	100%
	1 :
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

Individual stems within multiple stemmed clumps must either all be marked for removal or must all be left unmarked. Do not mark elm or juneberry. Mark girdle trees with an orange "X" on both sides of tree. Avoid marking under-represented species, they will be retained to maintain diversity.

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 Shannon Harig at (231) 238 - 9313 ext 4742, to make arrangements for paint.
2. Paint will be supplied from Indian River.
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.