



# TIMBER SALE PRESCRIPTION

GENERAL	
Date 8/19/10	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name) Comp 74

LOCAL CONTACT	
Name Keith Magnusson	Telephone (906) 293 - 3293 ext.4745
Email Address <a href="mailto:magnussonk@michigan.gov">magnussonk@michigan.gov</a>	FAX (906) 293 - 8530

X Map of Project Area Attached

LEGAL DESCRIPTION	
T45N R7W Section(s) 11, 12, 13, 14,	Description See attached map

Year of Entry: 2010 Compartment(s): 74 Stand Number(s): 40, 53, 55, 56, 66, 77

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

Estimated Acres: 614 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
40	M6	160	130	Thinning	Northern Hardwoods
53	M6	75	130	Thinning	Northern Hardwoods
55	M6	40	120	Thinning	Northern Hardwoods
56	M6	59	130	Thinning	Northern Hardwoods
66	M6	275	140	Thinning	Northern Hardwoods
77	A6	5	90	Final Harvest	Aspen

PRESCRIPTION
<ol style="list-style-type: none"> <li>1. Favor (leave) the best future crop tree in place, regardless of species.</li> <li>2. Leave a component of all hardwood species present.</li> <li>3. Stands 40, 53, 55, 56 &amp; 66 leave a residual of 60-80 BA removing approx. 1/3 of BA. Leave all conifers unless needed for maneuverability.</li> <li>4. Mark stand to improve maneuverability within the stand for logging operations to occur.</li> <li>5. Leave obvious nest or den trees, retain potential wildlife trees if none are present.</li> <li>6. Leave some beech as well as other mast producing trees such as cherry and oak.</li> <li>7. In stand 66, leave some larger white birch and aspen.</li> <li>8. If hawk nests are discovered within the stand while marking, contact the Newberry Office.</li> <li>9. In stand 77, cruise all species present. Only take basal areas on conifers, no need to cruise heights, they are to remain as residual.</li> </ol> <p><b>Access</b>  <b>All Stands:</b> Proceed east from Newberry on M-28 to the Basnau Road just east of Hulbert Corners. Turn right onto the Basnau Road and proceed east approx 1.6 miles to the Kabelman Road. Turn south onto the Kabelman Road. Follow the roads shown on the treatment/stand maps.</p>

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Establish needed survey corners that do not exist.	10/1/10

### CONTRACT WORK CAN BEGIN

Immediately  Date:

**CONTRACT WORK MUST BE COMPLETED BY** Date 9/1/11

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

**Exclusions to mark and why**

**Standards for marking lines against private land**

Must be within a minimum of 10 feet of actual property line. Use DNRE corners where they exist for property line establishment. Use historical property lines/blazed trees on other property lines.

**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	2 meters
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:**

The DNRE must approve GPS units(s). Contractor must supply their own GPS units that are capable of downloading information to a PC.

**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-W

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 77	1	3 X 3
		X
		X
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>		

**Cruise Special Instructions:**

Cruise all aspen, birch, yellow birch, paper birch, beech and maple as they exist. Cruise as pulp. Take only basal areas on conifers such as white pine, hemlock, spruce and balsam, they are to be left as residual.

**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):**

Stands 40, 53, 55, 56 & 66: 80 Minimum 70 to Maximum 90)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" and dots	12	10
Sawbolts			
Pulpwood	slash; dots-tally trees	6	4

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input 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
All marked hardwood sawlogs (by species)	1 : 1
Mixed hardwoods pulp	1 : 20
Conifers and any aspen pulpwood	1 : 10
	1 :

**SPECIAL MARKING INSTRUCTIONS**

- Two sided marking on all marked trees.
- Maintain stand diversity across all age classes. Leave a component of all hardwood species present.
- Remove low quality and high risk red and sugar maple. Promote yellow birch where possible
- If stick nests are found, leave a minimum 1 chain buffer around the nest tree and contact the Newberry Unit Field Office for any additional requirements.
- 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.
- Dots will be painted on the pulp tally trees so they can be checked.
- Mark all sawlog trees with an "X" with dots to correspond with the number of sawlogs tallied.

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 Keith Magnusson at (906) 293 - 3293 ext. 4745, to make arrangements for paint.
2. Paint will be supplied from the Newberry 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.