



TIMBER SALE PRESCRIPTION

GENERAL	
Date 8/16/10	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name) Comp 10

LOCAL CONTACT	
Name Keith Magnusson	Telephone (906) 293 - 3293 ext.4745
Email Address magnussonk@michigan.gov	FAX (906) 293 - 8530

X Map of Project Area Attached

LEGAL DESCRIPTION	
T48N R11W Section(s) 16, 17, 18	Description See attached map

Year of Entry: 2011 Compartment(s): 10 Stand Number(s): 4, 11, 32, 35, 37

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE	
Estimated Acres: 317	Source: <input checked="" type="checkbox"/> OI <input type="checkbox"/> GPS <input type="checkbox"/> Other
Payment will be made on the basis of these estimated acres.	

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
4	M9	56	100	Delayed Removal	Northern Hardwoods
11	M9	6	80	Delayed Removal	Northern Hardwoods
32	M9	4	80	Delayed Removal	Northern Hardwoods
35	M9	229	110	Delayed Removal	Northern Hardwoods
37	M9	22	100	Delayed Removal	Northern Hardwoods

PRESCRIPTION
<ol style="list-style-type: none"> 1. Favor (leave) the best future crop tree in place, regardless of species. 2. Leave a component of all hardwood species present. 3. Stands 4 and 37 leave a residual of 40-60 BA removing approx. 1/3 - 1/2 of BA. Leave all conifers unless needed for maneuverability. 4. Stands 11, 32 and 35 leave a residual of 30-50 BA removing approx. 1/2 of BA. Leave all conifers unless some need to be removed for maneuverability. 5. Mark stand to improve maneuverability within the stand for logging operations to occur. 6. Leave obvious nest or den trees, retain potential wildlife trees if none are present. 7. Leave some beech as well as other mast producing trees such as cherry and oak. 8. If hawk nests are discovered within the stand while marking, contact the Newberry Office. 9. Being that nearly half of the stand is being removed, stands may be leave tree marked with volumes cruised or cut tree marked and volumes tallied as marking occurs. Options will be discussed a pre-work meeting. Call if you have questions about this work prior to bidding. <p>Access Stands 4, 11, 32, 35 & 37: Proceed north from Newberry on M-123 to Co Rd 407. Turn left on Co Rd 407. Take Co Rd 407 to Pine Stump Junction. Turn west off of Co Rd 407 onto the CCI Road just north of Pine Stump Junction. Follow the CCI Road west for approx. 8 miles to where the sale work is located (see compartment map for further details).</p>

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Establish needed survey corners that currently 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 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

Standards for marking lines against private land

Must be within a minimum of 10 feet of actual property line. Use DNR corners where they exist for property line establishment.

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 DNR 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 To be discussed a pre-work meeting.

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stands 4, 11, 32, 35 & 37	0.6	4 X 4
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Since approximately half of the volume is being removed from all stands it is the timber markers option to mark stands as cut tree or leave tree. If marker chooses to mark stands as a leave tree, stands must be cruised determine timber volumes. If marker chooses to mark stand as a cut tree, stands can be cruised or tallied to determine timber volumes (see Timber Marking Instructions and Tally Intensities listed below).

If stands are cruised to determine the timber volumes, cruise all stands at per Timber Cruising Specifications listed above. Cruise pulp and sawlogs per DNRE product standards (this will be discussed at the pre-work meeting). Take only basal areas on conifers such as white pine, hemlock, spruce, balsam and cedar, 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 4 & 37: 50 (Minimum 40 to Maximum 60)

Stands 11, 32 & 35: 40 (Minimum 30 to Maximum 50)

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 checked="" type="checkbox"/> Markers Choice	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/> Markers Choice	<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 hardwood pulp	1 : 20
	1 :
	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 most of the beech trees throughout the stand and many trees are dead or nearly dead. While marking, evaluate and take beech that still has merchantable value.
- If cut tree marked, dots will be painted on the pulp tally trees so they can be checked.
- If cut tree marked, 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.