



TIMBER SALE PRESCRIPTION

GENERAL	
Date 9/1/11	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name)

LOCAL CONTACT	
Name Keith Magnusson	Telephone (906) 293 - 3293 x4745
Email Address magnussonk@michigan.gov	FAX (906) 293 - 8530

Map of Project Area Attached

LEGAL DESCRIPTION
T46N R9W Section(s) 19 & 22 Description See Cover Type Map

Year of Entry: 2012 Compartment(s):118 Stand Number(s): 134, 136, 161, 166, 170 & 191

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE
Estimated Acres: 115 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
134	F6	23	120 -> 10	Final Harvest	Upland Fir
136	A6	5	100 -> 10	Final Harvest	Aspen
161	P6	59	120 -> 20	Final Harvest	Lowland Poplar
166	Q6	13	140 -> 30	Shelterwood-Prep	Lowland Conifer
170	M9	11	180 -> 90	Selection	Northern Hardwoods
191	A6	4	140 -> 20	Final Harvest	Aspen

PRESCRIPTION
<p>1. Mark stand 170, favor (leave) the best future crop tree in place, regardless of species; leave a component of all spp. present. Do not mark any w. pine, spruce, cedar or hemlock. Mark stand to improve maneuverability within the stand for logging operations to occur.</p> <p>2. Cruise stands 134, 136, 161, 166 & 191. Cruise all species present. (See cruising specs)</p> <p>3. White pine, cedar, hemlock and oak will be left in all stands as residual.</p> <p>4. Stand 161 will need to have retention areas left within stand area (See paint line specs)</p> <p>5. If stick nests are found leave a minimum 1 chain unmarked buffer around the nest tree and contact the Newberry field office for additional requirements.</p>

Access Take County Road 462 East which is just north of the town of Newberry. Stands 134 and 136 are near McPhees Boat Landing. The other stands can be accessed via roads on private land. See maps.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
-The NW 1/16 th survey corner in Section 22 near McPhees Landing will be located so property lines can be established.	10/01/2011
-Contact private landowners to secure access before work begins.	10/01/2011

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2012

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

In stand 161, retention areas will need to be designated and boundaries of these areas painted. These retention areas should be approx. 5% of the total stand area. This will be discussed at the pre-work meeting.

Standards for marking lines against private land

Must be within a minimum of 10 feet of actual property line.

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

Special Instructions:

Contractor must supply their own GPS Units that are capable of downloading information to a computer.

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)
Stands 134, 136, 161, 166, 191	~0.8	3 X 4
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Cruise all species per DNR product standards. Cruise by species and product. All cruised aspen, spruce and balsam can be recorded as pulp, no need to determine sawlogs in these species. Record only the basal area of white pine, hemlock, cedar and oak, these trees are being left as residual. Exact plot center will be marked by placing a stick in the ground, flagged with ribbon marked with the corresponding plot number. These items will be discussed at the pre-work meeting.

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): Stand 170: 90 (Minimum 80 to Maximum 100)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" with dots	12"	10"
Sawbolts			
Pulpwood	slash	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
Mixed hardwood species of sawlog quality	1 : 1
Mixed pulpwood species of pulpwood quality	1 : 20
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

- Two sided marking on all marked trees, including any aspen that is to be cut.
- Maintain stand diversity by leaving some beech, yellow birch, paper birch and black cherry.
- 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 x4745, 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.