



TIMBER SALE PRESCRIPTION

GENERAL	
Date 10/30/09	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 3

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	
T49N R12W Section(s) 7, 18, 27, 28, 29, 30	Description See attached map

Year of Entry: 2010 Compartment(s): 3 Stand Number(s): 11, 13, 14, 23, 26, 78, 104, 105, 109, 110 & 124

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 428 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
11	M6	70	90	Selection	Northern Hardwoods
13	M9	12	80	Selection	Northern Hardwoods
14	M9	1	80	Selection	Northern Hardwoods
23	A9	6	110	Final Harvest	Aspen
26	M9	7	100	Selection	Northern Hardwoods
78	M9	36	80	Shelterwood-Seed	Northern Hardwoods
104	M9	41	120	Selection	Northern Hardwoods
105	M9	21	120	Selection	Northern Hardwoods
109	M9	145	90	Shelterwood-Prep	Northern Hardwoods
110	M6	80	70	Shelterwood-Seed	Northern Hardwoods
124	M9	9	120	Selection	Northern Hardwoods

PRESCRIPTION

1. Favor (leave) the best future crop tree in place, regardless of species.
2. Leave a component of all hardwood species present.
3. Stands 11, 13, 14, 26, 78 & 124 leave a residual of 40-60 BA removing approx. 1/3 - 1/2 of BA. Leave all conifers unless needed for maneuverability.
4. Stands 104 and 105 leave a residual of 60-80 BA removing approx. 1/3 of BA. Leave all conifers unless some need to be removed for maneuverability.
5. Stands 109 and 110 leave a residual of 30-60 BA removing approx. 1/3 - 1/2 of BA in each stand. Leave all conifers in stand 109 unless some need to be removed for maneuverability. Leave all conifers in stand 110.
6. Mark stand to improve maneuverability within the stand for logging operations to occur.
7. Leave obvious nest or den trees, retain potential wildlife trees if none are present.
8. Leave some beech as well as other mast producing trees such as cherry and oak.
9. If hawk nests are discovered within the stand while marking, contact the Newberry Office.
10. In stand 23, cruise all species present. Only take basal areas on conifers, no need to cruise heights, they are to remain as residual. Leave tree mark 1 large aspen per acre in stand.

Access

Stands 11, 13, 14, 23, 26, 78 & 124: Proceed north from Newberry on M-123 to Co Rd 407. Turn left on Co Rd 407. Take Co Rd 407 to Co Rd 416. Turn left on Co Rd 416. Follow Co Rd 416 west for approx. 16 miles to Barfield Lakes Road (see compartment map for further details).

Stands 104, 105, 109 & 110: Proceed north from Newberry on M-123 to Co Rd 407. Turn left on Co Rd 407. Take Co Rd 407 to Co Rd 416. Turn left on Co Rd 416. Follow Co Rd 416 west for approx. 10 miles to work area (see compartment map for further details).

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
None	

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 9/1/09

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. 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 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 E-W

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 23	1	3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

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 11, 13, 14, 23, 26, 78 & 124: 50 (Minimum 40 to Maximum 60)
 Stands 104 & 105: 70 (Minimum 60 to Maximum 80)
 Stands 109 & 110: 50 (Minimum 30 to Maximum 60)

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"/> (Stand 23, see prescription)	<input type="checkbox"/>	<input checked="" 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.