

Timber Sale Preparation Prescription General

Date: 8/14/02

Forest Management Unit: Escanaba

Timber Sale Number: Sale Name: **Compartment #1 Block**

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Map of Project Area Attached

Legal Description:

T37N R27W Section(s) 4, 5, 6 Description: See attached map

Year of Entry: 2003 Compartment(s):1 Stand Number(s): 5, 22, 23, 24, 27, 35, 45, 47, 49, 51, 52, 56, 63, 66, 81, 96, 102, 112, 116, & 132

This timber sale preparation contract is based on the following acreage:

Estimated Acres: 272 source OI GPS Other

Payment will be made on the basis of these estimated acres.

Treatment & Objectives:

Stand nbr	Cover Type	Acres	BA / Acre	Treatment	Management Objective
5	M6	10	120	THINNING	N. HARDWOOD
22	M9	6	120	THINNING	N. HARDWOOD
23	M6	30	110	THINNING	N. HARDWOOD
24	Q6	3	100	SHELTERWOOD	SWAMP CONIFER
27	A6	37	80	FINAL HARVEST	ASPEN
35	M6	18	90	SHELTERWOOD	UPLAND SPRUCE/FIR
45	F6	5	120	SHELTERWOOD	UPLAND SPRUCE/FIR
47	M6	20	110	THINNING	N. HARDWOOD
49	A6	36	100	FINAL HARVEST	ASPEN
51	M9	4	130	THINNING	N. HARDWOOD
52	A6	48	90	FINAL HARVEST	UPLAND SPRUCE/FIR
56	M6	4	100	THINNING	N. HARDWOOD
63	M6	15	130	THINNING	N. HARDWOOD
66	F6	11	120	SHELTERWOOD	UPLAND SPRUCE/FIR
81	E6	2	70	SHELTERWOOD	SWAMP CONIFER
96	A6	3	110	FINAL HARVEST	ASPEN
102	F6	1	70	FINAL HARVEST	ASPEN
112	C6	7	110	SHELTERWOOD	CEDAR
116	F6	10	100	SEED TREE	UPLAND SPRUCE/FIR
132	P5	2	40	FINAL HARVEST	ASPEN
TOTAL		272			

Prescriptions:

1. N. Hardwood Stands #5, 22, 23, 47, 51, 56, 63: This is a northern hardwood thinning. Favor the best future crop trees in place. Favor sugar maple, white ash, oak, beech, hemlock, cedar, and yellow birch over other species. Maintain stand diversity by leaving a component of less common species. Generally, species to reduce include aspen, red maple, basswood, birch, spruce, fir, and ironwood. Leave obvious nest and den trees, leave 1-2 cull trees per acre for wildlife (especially near the edge of stand). Utilize DNR guidelines found in "The Compleat Marker: A Guide to Managing Northern Hardwoods on Michigan State Forests".

2. N. Hardwood stand #35: This is a shelterwood cut. Mark maple, ash, basswood, and birch trees to cut. Leave all cedar, oak, and beech. Remove all aspen, spruce, & fir except for some marked seed trees to leave for stand diversity. Residual stocking of the remaining stand will be

very variable but will have an average residual BA of 50 to 60 and will be composed primarily of sugar and red maple, along with cedar and some birch, basswood, and seed trees of other species. Preserve an old cabin site that is located within this stand.

3. Aspen stands #27,49, 52, 96, & 132: Cut all trees except oak, beech, cedar, and hemlock. Also, pine seed trees (if present) should be marked to leave.
4. Stands 45 & 66: Cut all trees except for cedar, hemlock, oak, beech, and seed trees. Seed trees will be marked to leave and will include spruce, fir, maple, ash, and cherry. Residual BA will be 20 to 30.
5. Stand 24: Cut all trees except cedar, hemlock, and seed trees (less than 10 BA) from all species (primarily ash, spruce, and balsam fir). Mark the seed trees to leave.
6. Stand 81: Cut all trees except cedar, hemlock, and ash seed trees. Approximately one half of the ash will be designated for harvest. Mark the seed trees to leave (between 10-20 sq. ft. per acre BA).
7. Stand 102: Cut all trees except oak and beech, if present.
8. Stand 112: Cut all trees except cedar and elm. Some spruce seed trees must be left for a seed source (estimated less than 10 sq. ft. per acre BA).
9. Stand 116: Cut all trees except cedar, hemlock, elm, and conifer seed trees that should be designated with green paint.

Access: In general all stands are accessible via the East Branch and West Branch of the DeTemple Road.

DNR preparation work to be done prior to contract work:	Estimated date:
Registered survey corners must be set by DNR surveyors	April 2003

Contract work can begin:

- Immediately in stands 5, 23, 35, 49, 63, 96, 102, 132
- Date: April, 2003 (earlier if land survey corners are set) in stands 22, 24, 27, 45, 47, 51, 52, 56, 66, 81, 112, 116

Contract work must be completed by: Date August 15, 2003

The contractor can invoice for three separate portions of the job. Part 1 represents 35% of the contract value and includes completion of work in stands 5, 22, 23, 24, 63, 66, 81, & 102 (sale #1). Part 2 represents 20% of the contract value and includes completion of work in stands 27, 45, & 49 (sale #2). Part 3 represents 45% of the contract value and includes completion of work in stands 35, 47, 51, 52, 56, 96, 112, 116, & 132 (sale #3).

Paint Line Work

- This is bid item
- This is not a bid item

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 Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red Other:
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Other:
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Green Other:
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange Other:

Exclusions to mark and why: none

Standards for marking lines against private land: mark up to blue painted boundary line

Area calculation:

Unit	Method	Standard
Sale	GPS	2 METERS
Payment unit	GPS	2 METERS
Stand		

Special Instruction: Contractor will establish blue painted boundary lines between registered survey corners adjacent to private property. Red painted lines will be established along timber sale boundary where not located adjacent to private property. Yellow painted payment unit lines will be established as follows: between stands 5 & 63; between 24,66,81,102 & 22,23; between 47 & 52; between 47 & 96; between 52 & 112, between 56 & 116, between 35 & 116; between 132 and 35, between 51 & 52; split stand 49 in half; split 27 in half; and split 52 in half. See attached map.

Timber Cruising Specifications

This is a bid item

This is not a bid item

Required Basal Area Factor: 10 20 Other:

Cruise Line Direction: Discretion of contractor

Cruising Units	Number of plots per acre	Spacing (chains)
Individual stands with the exception that stands 49, 27, and 52 will be cruised by payment unit.	1 plot per acre	3ch. X 3 1/3 ch.
Total Number of Cruise Points		

Cruise Special Instructions:

Cruise all pulpwood in entire sale. Cruise sawlogs in entire sale except for northern hardwood stands ---- Sawlogs will be individually tallied in hardwood stands # 5, 63, 22, 23, 47, 51, & 56.

Unless otherwise specified, the tally sheets use must be those supplied by the Management Unit.

Timber Marking Specifications

- This a bid item
- This is not a bid item
- Precise specifications to be delineated at pre-work meeting with DNR staff.

1. N. Hardwood Stands #5, 22, 23, 47, 51, 56, 63:

Total Residual BA (Basal Area): 80[Minimum 70 to Maximum 90]

Treatment	Number	Size
Mark trees to cut with orange paint	Reduce stand to 70-90 BA	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash and dot	12	10
Sawbolts	NA		
Pulpwood	Slash	5	4

Tally intensities

Species / product

Ratio:

Sawlogs, all species	1 : 1
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Species to favor: sugar maple, white ash, oak, beech, hemlock, cedar, yellow birch

Species to reduce: aspen, basswood, spruce, balsam fir, red maple, white birch

2. N. Hardwood stand #35:

Treatment	Number	Size
Mark trees to cut with orange paint	Roughly one third of hardwood species will be marked (20 – 30 BA per acre) to cut.	
Mark spruce and balsam fir seed trees to leave with green paint.	Less than 10 sq. ft. per acre BA.	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities

Species / product

Ratio:

None - NA	NA
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3. Aspen stands #27, 49, 52, 96, and 132:

Treatment	Number	Size
Mark pine seed trees to leave with green paint	Unknown, few if any.	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities
Species / product

Ratio:

None - NA	NA
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4. Stands 45 and 66:

Treatment	Number	Size
Mark seed trees to leave with green paint	Approximately 10 sq. ft. BA per acre.	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities
Species / product

Ratio:

None - NA	NA
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5. Stand 24:

Treatment	Number	Size
Mark seed trees to leave with green paint	Less than 10 sq. ft BA per acre	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities
Species / product

Ratio:

None - NA	1 :
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6. Stand 81:

Treatment	Number	Size
Mark ash seed trees to leave with green paint	Roughly 10 to 20 sq. ft. per acre.	8 to 10 inch DBH

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities
Species / product

Ratio:

None - NA	1 :
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7. **Stand 102:** No timber marking required.

8. **Stand 112:**

Treatment	Number	Size
Mark spruce seed trees to leave if needed	Less than 10 sq. ft. per acre	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities

Species / product

Ratio:

None - NA	1 :
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9. **Stand 116:**

Treatment	Number	Size
Mark spruce, balsam fir, and tamarack seed trees to leave with green paint	Less than 10 sq. ft. per acre BA	all

	Marking symbol	Minimum DBH	Top DIB
Sawlogs	Slash		
Sawbolts	NA		
Pulpwood	Slash		

Tally intensities

Species / product

Ratio:

None - NA	1 :
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Special Marking Instructions – All stands

Unless otherwise specified, the tally sheets used must be those provided by the Management Unit.

Stump marks shall be a vertical paint slash extending to the ground in the furrow of the stump (if present). Paint marks at chest height shall be placed on two opposite sides of the tree. A double stump mark (two separate locations on the stump) shall be placed on all sawlog trees. Dots for each 8 foot long sawlog shall be placed on sawlog trees in stands 5, 22, 23, 47, 51, 56, and 63.

Restrictions: We wish to be able to identify who did what on our sales. You may not have more than two markers in one payment unit without approval. Each marker should have an assigned area to mark (not strips).

Paint: Call Dustin Salter to make arrangements for all paint pick up. Paint will be supplied from Stephenson. Contractors work schedule must coincide with the DNR work schedule for paint supply. The DNR will not be available on weekends or evenings.

Deliverables:

1. A list of who marked (cruised) each payment unit (names)
 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 done.
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