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TWILL WEAVE—A BROKEN TWILL

WARP PLAN:
40/2 White Linen for warp. (This may also be for weft but a “singles” is better.
20/1 or 16/1 for weft.
White is excellent. Natural is “traditional”. Peach, pink, light green, maize or aqua are modern.
12/1 Slub natural is like homespun and is traditional.
#15 reed threaded at 2 th. per dent—30 th. per inch.
363 = No. of th. in warp.
12" + = Width of warp in reed.

THREADING PLAN:
A—B = 8 th. x 45 repeats = 360 th.
B—C = 1 repeat = 3 th.
363 th. divided by 30 = 12 1/10"

WEAVING PLAN:
This is a one-shuttle weave. There are various ways of weaving this pattern. Any overshot tie-up will give all of the harness combinations needed.
The material made with #1 is excellent for blouses or table cloths or towels. Used with bobbin lace made with 40/2 linen, the towels are especially pretty.
Repeat any one of the three treadlings as desired.
LINEN WEAVES

HUCK WEAVE

WARP PLAN:
Linen for both warp and weft is preferable for huck. In the old line N. S. “singles” was often used for both warp and weft. Later, when cotton was available it was used for warp. The linen was, of course, hand-spun.
40/2 white linen—for warp
8/1 or 10/1 white linen—for weft (try both)
8/1 tow, 8/1 natural, 10/2 natural & “bouclin” natural would also be worth trying for weft. For a modern touch try 10/2 pastels, for weft.
Use either #15 reed at 3 th. per dent = 45 th. per inch or #20 reed at 2 th. per dent = 40 th. per inch.
553 = No. of threads in warp
12 1/2" = width of warp set at 45 th. per inch or 13 7/8" = width of warp set at 48 th. per inch (preferable.)

THREADING PLAN:
A—B = 2 th. x 1 repeat = 2 th.
B—C = 18 th. 30 repeats = 540 th.
C—E = 11 th. x 1 repeat = 11 th.
553 divided by 45 = 12 1/3" or 553 divided by 40 = 13 7/8" wide.

WEAVING PLAN:
This is a one-shuttle weave.
Note: Each block should be square. 10/2 may take only 7 shots instead of 9 for both pattern and tabby. Tabby areas should be the same size as pattern blocks.
**LINEN WEAVES**

**HUCK WEAVE**

**WARP PLAN:**
Linen is preferable for both warp and weft tho’ cotton was often used for one. “Singles” linen was used chiefly—set at 40 th. per inch. 40/2 white linen—for **warp** or 24/3 white cotton for **warp**.

**#15 reed at 2 th. per dent.**
398 threads in warp = 13 ¼" = width of warp in reed or **#20 reed at 2 th. per dent.** 542 th. in warp = 13 ½" = width of warp in reed.
Choice of **weft**: 8/1 — tow, grey (very typical), or natural, or white. 10/1 — natural or white.

**THREADING PLAN:**

A—B = 4 th. x 1 repeat = 4 th.
B—C = 72 th. 5 repeats = 360 th.
C—E = 34 th. x 1 repeat = 34 th.
398 th. divided by 30 = 12 1/4" width
or
A—B = 4 th. x 1 repeat = 4 th.
B—C = 72 th. 5 repeats = 504 th.
C—E = 34 th. x 1 repeat = 34 th.
542 th. divided by 40 = 13 ½" width
LINEN WEAVES

PENNSYLVANIA HUCK STRIPES CONTINUED
LINEN WEAVES

M’S AND O’S—4 SHAFTS

WARP PLAN:
Linen for both warp and weft is essential in weaving towels or table linen in M’s & O’s. The other factor which is essential for producing superior weaving in M’s and O’s is to have the warp set closely in the reed.

40/2 white linen (or 50/2 or 50/3) for warp.
16/1 or 20/1 white linen for weft.
572 = No. of threads in warp.
14 1/3" width of warp in reed.
#20 reed at 2 th. per dent—40 th. per inch.

THREADING PLAN:
A—B = 2 th. x 1 repeat = 2 th.
B—C = 16 th. 35 repeats = 560 th.
C—E = 10 th. x 1 repeat = 10 th.

WEAVING PLAN:
There is no true tabby, as such, in M’s and O’s weaving.
Alternate the weaving of “A & B.”
End on the “A” block.
Blocks containing more than 2 units are best woven so that they look like real tabby.
A—B = Block A (treadling) 3x
B—C = *(Block B 1x, Block A 1x) 2x, Block B 1x (5 blocks in all)
Block A 5x*. Repeat *—* 6x (or required length)
Block A 3x

Weave a towel with plain weave hems and an all-over “checkerboard” pattern.
If you weave the 1 & 2 and 3 & 4 (etc.) for Block “B”, you will reverse the areas of plain & patterned blocks.
To understand the block structure of M’s and O’s, weave a small sample with 2" long vertical stripes for both “A & B” blocks.
LINEN WEAVES

M'S & O'S—FOUR SHAFTS

WARP PLAN: (Read note on M’s & O’s on “Basic blocks”, page 5) 40/2 white linen for warp. (Pastels are also good) 16/1 or 20/1 white or pastel linen for weft. #20 reed threaded @ 2 th. per dent. (40 th. per inch) 568 = No. of threads in warp 14 1/5" width of warp in reed.

THREADING PLAN:
A—B = 24 th. x 1 repeat = 24 th. 
B—C = 40 th. x 1 repeat = 40 th. 
A—B = 24 th. x 1 repeat = 24 th. 

THREADED PLAN:

A—B = 24 th. x 1 repeat = 24 th. 
B—D = 80 th. x 6 repeat = 480 th. 
B—C = 40 th. x 1 repeat = 40 th. 
A—B = 24 th. x 1 repeat = 24 th. 

WEAVING PLAN:
This is a one shuttle weave. There is no true tabby, as such, in M’s and O’s weaving.

Plain Weave—this may be used for hems. Alternate 1 & 4 and 2 & 3.

Pattern—This is a plaid design and as in all plaids the design is best when each block is squared. Each unit of M’s & O’s contains 8 threads and each unit must be woven with 8 shots of weft. To square a block with 5 units would thus require 40 weft shots.

a) Method A
Blocks containing more than 2 units are best woven so that they look like real tabby.

Follow draft: A—B = {1&3, 2&4, 1&3, 2&4, 1&3, 2&4, 1&3, 2&4} x3
B—C = {1&2, 3&4, 1&2, 3&4, 1&2, 3&4, 1&2, 3&4} x
B—D = {1&2, 3&4, 1&2, 3&4, 1&2, 3&4} x1
(1 & 3, 2 & 4, 1 & 3, 2 & 4, 1 & 3, 2 & 4, 1 & 3, 2 & 4) x1
x2 {1&2, 3&4, 1&2, 3&4, 1&2, 3&4, 1&2, 3&4} x1
x3

Repeat B—D, 6x—or till you have woven length you need.
Next repeat B—C, 1x (all of it with repeats)
Next repeat A—B, 3x (just as given above.)

Pattern—“Lacy M’s and O’s.” (This method is applicable only to large pattern blocks as “C—D” on page 5.)

Weave the same shaft combinations given in A—B, but after each group of 8 shots has been woven on 1 & 3 and 2 & 4, throw just 2 shots on 1 & 2 and 3 & 4—(1 shot over and 1 back.) Do this in C—D after the 1st 4 repeats. The large block will then have a more interesting appearance. But if you wish to keep the traditional M’s & O’s look, do not use it.

To form the plaid design alternate blocks and weave to the desired depth to square off the design.
LINEN WEAVES

BARLEY CORN WEAVE
COMPARABLE WITH BRONSON WITHOUT LACE

WARP PLAN:
Warp: 40/2 white linen.
Weft: 10/1 (colors if desired) or 16/1 white, natural or colors.
Tabby either 40/2 or 20/1.
#15 reed threaded @ 2 th. per dent = 30 th. per inch.
436 = No. of threads in warp
14 1/2" width of warp in reed.

THREADING PLAN:
A—B = 12 th. x 1 repeat = 12 th.
A—E = 72 th. x 5 repeats = 360 th.
A—D = 64 th. x 1 repeat = 64 th.
436 th divided by 30 = 14 1/2"

WEAVING PLAN:
1. Tabby = color of warp (either 40/2 or 20/1.)
The tabby shafts are 1 and 2-3-4. For each unit of 4 threads, there are 2 tabby shots and 2 pattern shots.

2. Pattern:
   There are 3 different pattern blocks in this draft.
   The 1st is written on shafts 1 & 2
   The 2nd is written on shafts 1 & 3
   The 3rd is written on shafts 1 & 4
   Each block acts as a tie-down block for the adjacent blocks.

The 1st block is woven (numbers mean shafts)
The tabby may also be used for hems for towels.
They may be white or in color—matching or contrasting with the rest of the towel.
OVERSHOT WEAVE

WARP PLAN:
This plan is from an ancient N.Y. overshot table cloth with cotton warps & linen weft.
Warp = Clark’s 6-cord, O.N.T. #50 sewng thread (400 yd. spools)
(If you must have linen, use 40/2 white.) (10 spools for 5 yd. warp & weft.)
T. Weft = Like warp.
Patt. Weft = 16/1 or 20/1 linen in white or pastels.
#20 or @25 reed threaded @ 2 th. per dent—either 40 or 50 th. per inch.
571 threads in warp.
14 ¼" width at reed in #20 reed or 11½" = width at reed in #25 reed.

THREADING PLAN:
A—E = 110 th. x 5 repeats = 550 th.
E—F= 21th. x 1 repeats = 21 th.
A—D = 64 th. x 571 thr. ÷ 14 ¼" or ÷ 50 = 11 ½".
Note—To get the special character of this lovely old cloth, do use a #20 or #25 reed.

WEAVING PLAN:
A two shuttle weave. Alternate with tabby shots.
Sequence: wheel, small rose, large rose, small rose
repeat as desired ending with wheel

Note: For Rising Shed.
Substitute 2-3 for 1-4
Substitute 1-2 for 3-4
Substitute 1-4 for 2-3
Substitute 3-4 for 1-2

Instead of weaving this as a rose pattern, it may be woven “on the diagonal” with “stars” instead of roses.
LINEN WEAVES

BRONSON LACE WEAVE

WARP PLAN:
40/2 linen—white or natural for warp
20/2 linen—white or natural for weft.
If white is used for warp, try pastels for weft.
40/2 may also be used as weft.
#15 dent reed at 2 th per dent = 30 th. per inch.
394 threads in warp 13” width in reed.

THREADING PLAN:
A—B (plain weave) = 10 th. x 3 repeats = 30 th.
B—C = (lace—“rose”) = 40 th. x 1 repeats = 40 th.
C—D = (plain weave) = 8 th. x 2 repeats = 16 th.
D—E = (lace center) = 10 th. x 3 repeats = 30 th.
C—D = (plain weave) = 8 th. x 2 repeats = 16 th.
B—C = (lace—“rose”) = 40 th. x 1 repeats = 40 th.
A—B (plain weave) = 10 th. x 3 repeats = 30 th.
394 th. divided by 30 = 13 2/15 " wide.

Weave “as drawn in” and square all blocks, including the plain weave blocks. For hems weave enough tabby for turn under at beginning and end.
Linen Weaves

4-shaft lace weave

Pattern—“Dotted Swiss or Lace”

Warp Plan:
35/3 or 35/2 white mercerized linen for warp & weft
or 40/2 white linen warp and 20/1 white linen weft.
#15 reed threaded @ 2 th. per dent. Either 426 th. in warp = 14 1/5" width of warp in reed or 288 th. in warp = 9 1/2" width of warp in reed (just for samples.)

Threading Plan:
A—B = 23 units of 6 threads each = 138 th. x 3 repeats = 414 th.
A—A′ = 2 units of 6 threads each = 12 th. x 1 repeats = 12 th. (426 ÷ 30 = 14 1/5" width)
or
A—B = 23 units of 6 threads each = 138 th. x 2 repeats = 276 th.
A—A′ = 2 units of 6 threads each = 12 th. x 1 repeats = 12 th. (288 ÷ 30 = 9 1/2" + width)

Weaving Plan:
A one shuttle weave.
1. Tabby Weaving: This may be used for hems & all plain weaving.
   1, 2-3-4 (T)
2. Tabby with “dotted Swiss” effect. This is to be used in combination with pattern woven with “dots”. Here there are 6 shots needed to space the dots properly.
   1, 2-3-4, 1, 2-3-4, 1

Pattern Weaving: Follow pattern on diagonal and square the blocks.
1. Pattern without dots (A or B)
   Block A = 1, 1-3, 1, 1-3, 1, 2-3-4
   Block B = 1, 1-4, 1, 1-4, 1, 2-3-4
2. Pattern with “dotted Swiss” effect (A or B.)
   Block A = 1, 1-3, 1, 1-3, 1, 3-4
   Block B = 1, 1-4, 1, 1-4, 1, 3-4

Notes based on Helen D. Young’s Heritage Linens updated by Eleanor Best 2003
**Double Faced Twill**

**Warp Plan:**
40/2 white linen may be used for both warp and weft.
16/1 or 20/1 white (or pastels) is preferable for weft.
#20 reed threaded @ 2 th. per dent = 40 th per inch.
576 th. = No. of threads in warp
14 2/5" width of warp in reed

**Threading Plan:**
A—B (checkerboard border) = 20 th x 2 repeats = 40 th.
B—D (main pattern) = 32 th. x 15 repeats = 480 th.
B—C (balancer) = 16 th. x 1 repeats = 16 th.
A—B (border) = 20 th. x 2 repeats = 40 th.
(576 ÷ 40 = 14 2/5" + width)

**Weaving Plan:**
This is a one-shuttle with no tabby. Weave “as drawn in” and square each block. This design has a “checkerboard” frame all around it so be sure to weave it at both ends.

The threading and the treadling are the same for both designs, only the tie up changes.

**Simple “Damask” (False Damask)**
True Damask needs 5-thread block

Notes based on Helen D. Young’s Heritage Linens updated by Eleanor Best 2003
**LINEN WEAVES**

**DOUBLE FACED TWILL & “DAMASK”**

**WARP PLAN:**
40/2 linen — white for warp
10/1, 14/1 or 20/1 (white or colors for weft).

#20 reed threaded @ 2 th. per dent

= 40 th. per inch.

**THREADING PLAN:**

C (12,11,10,9) B (8,7,6,5) A (4,3,2,1)

B C = 20 th.

ABBA = 32 th.

AAAABBBBAAAAA = 52

C 13 repeats = 52 th.

AAAABBBBAAAAA = 52

ABBA = 32 th.

C (12,11,10,9) B (8,7,6,5) A (4,3,2,1)

B C = 20 th.

**WEAVING PLAN:**

A one-shuttle weave.

May be woven on diagonal, squaring blocks, or in whig rose fashion. Use profile to give you order and size of blocks.

The threading and the treadling order is the same for both designs, only the tie up changes.

In the original worksheets, the order of the treadling was changed for the “damask” design from 1-2-3-4 to 1-3-2-4, from 5-6-7-8 to 5-7-6-8 and from 9-10-11-12 to 9-11-10-12 using the same tie up as used for the “twill.”

**“WHIG ROSE VARIANT”**

**PROFILE (OR SHORT) DRAFT**

**FOUR THREAD “DAMASK” (FALSE DAMASK) ON 12 SHAFTS AS SEEN IN PROFILE DRAFT**

**THREADING IS THE SAME FOR FALSE DAMASK AS FOR DIAPER TWILL**
SIMULATION OF WEAVING OF “FALSE DAMASK” SHOWN IN DRAWDOWN ON PAGE 13—SAME THREADING AS DIAPER TWILL
LINEN WEAVES

DIAPER TWILL FOR 12 SHAFTS

PROFILE DRAFT ON PAGE 15
CRACKLE WEAVE

WARP PLAN:
40/3 linen or 20/1 Natural Linen, for both warp & tabby.
Pattern Weft = 10/2 linen—
½ lb. dark green and/or
½ lb. dark brown

#12 reed threaded at 2 threads per dent
(24 th. per inch)
323 = number of threads in warp.
13 ½" = width of warp in reed.

10/1, 14/1 or 20/1 (white or colors for weft.
#20 reed threaded @ 2 th. per dent
= 40 th. per inch.

THREADING PLAN:
A—B = 73 threads x 1 = 73 th..
B—F = “repeat”—102 th. x1 = 102 th.
B—E = “BALANCE” —75 th x 1 = 75 th.
B—A = 73 threads x 1 repeat = 73 th.
323 th. ÷ 24 = 13 11/24" width of warp

WEAVING PLAN:
Tabbies are 1 & 3 and 2 & 4 and alternate with pattern weft. In Crackle Weave
there are no long skips as in overshot. Each pattern weft skips over 3 warp threads and under the 4th
(the tie down thread.) The order in which the design is woven is given in outline beside the treadling.
LINEN WEAVES

FOUR SHAFT LENO WEAVE

WARP PLAN:
16/3 cotton—natural for warp
For weft see weaving plan
#12 reed (It is essential to use a #12 Reed!!)
264 threads in warp—4 ths. in every other dent
11" width of warp.

THREADING PLAN:
Thread each th. one per heddle.
A—B = 24 threads x 11 repeats—264 th. ÷ 24 (th. per
inch) = 11" (width of warp.)
1. Thread this warp as for any twill—1 th. per hed-
dle. As each group of 4 threads is put through the
heddles, tie it in a slip knot. Thread & tie 6 groups.
Next put the beads on these 6 groups: with right
hand, lift the “2” & “3” warp threads in the 1st
group of 4 threads, with left hand grasp “1” & “4”
threads in same group. Let “2” & “3” hang over #1
at right, pick up bead in right hand and thread “1” &
“4” through the bead, being sure as you replace “2”
& “3” in the group that they are over “1” & “4”.
See diagram above. Then retie group of 4 threads
toward you from bead. Put beads on other 5 groups
& continue to put a bead on every group of threads
across the warp in the same manner. 66 beads are
needed.
2. Center the warp in the reed, pulling each group of
4 thds. through a single dent. Skip a dent between
each threaded dent. See diagram *.

WEAVING PLAN:
For weft: 10/3—demi bleach linen
1. Fringe is good as a finish for this weave.
2. Tabby: Alternate shafts 1 (which also lifts 4) and 2
 & 3.
Note: A pick up stick may be used to increase the
depth of the shed. Use for mats, runners and cur-
tains.

"BEAD-LENO"
BY M. ATWATER FROM LILY BULLETIN

* TIE UP FOR LENO

#12 REED WITH 4 THDS. IN EVERY OTHER DENT.
1/4" DIAMETER BEADS NEEDED.

Notes based on Helen D. Young’s Heritage Linens updated by Eleanor Best 2003
8 SHAFT—BRONSON POINT

WARP PLAN:

50/2 linen—white, for both warp and weft or 40/2 linen—white, for both warp and weft

#20 reed for 50/2 linen = 3 th. per dent or 40/2 linen = 2 th. per dent in #15 reed.

For 50/2 linen = 394 threads in warp, 10” wide at 40 th. per inch.

For 40/2 linen = 296 threads, 10” wide at 30 th. per inch.

THREADING PLAN:

For 40/2 linen

A’—A = 2 threads x 1 repeat = 2 threads

A—B = 48 threads x 6 repeats = 288 threads

B—C = 6 threads x 1 repeat = 6 threads

296 ÷ 30 = 10”

For 50/2 linen.

A’—A = 2 threads x 1 repeat = 2 threads

A—B = 48 threads x 6 repeats = 386 threads

B—C = 6 threads x 1 repeat = 6 threads

394 ÷ 40 = 10” (-)

WEAVING PLAN:

Use one shuttle only.

Tabby - A and B for hems.

Pattern = The following are pattern treadles 1 & 2, 1 & 4, 1 & 5, 1 & 6, 1 & 7, 1 & 8. More than two shafts may be used, see note *

For all pattern sets use tabby A in alternation with the pattern combinations. Try out first the basic, 1-shaft combinations of which there are 7 pattern blocks in all.

For each pattern block 4 shots are needed.

1. Patt. 1 & 2, A, 1 & 2, A.
2. Patt. 1 & 3, A, 1 & 3, A.
3. Patt. 1 & 4, A, 1 & 4, A.
4. Patt. 1 & 5, A, 1 & 5, A.
5. Patt. 1 & 6, A, 1 & 6, A.
6. Patt. 1 & 7, A, 1 & 7, A.
7. Patt. 1 & 8, A, 1 & 8, A.

PATTERN—“AS YOU LIKE IT”

Each unit shown in the profile = 4 threads, with threads 1 & 3 on shaft 1 and both other threads on any one of the other 7 pattern shafts as in the threading draft.

*Note: Combinations of all even or all odd pattern shafts may be made. Woven as above with 4 shots.

Pattern Suggestions: 1. Pattern block #1, 2. = #2 etc. for weaving.

1. 1,2,3,2,1} 1x each; next weave 20 shots of plain tabby;
8,7,6,7,8} 1x each; repeat 20 tabby sots.
Repeat as desired.

2. 1,2,1 then 232, then 343, then 454, then 565, then 676, then 787 & reverse.

3. for a row of trees, weave the following: 1-4-6, 1-6, 1-7} 4 shots, see above at * tabby ABA, 1-7, ABA, 1-7, 1-6-4-2, 1-3-5-7, 1-6-4, 1-5-7, 1-6, 1-7.
**LINEN WEAVES**

**8 SHAFT NOVELTY TWILL**

**WARP PLAN:**
20/2 linen—dark green for warp & tabby weft. For pattern weft choose material suitable for mats, screens, upholstery, arons, skirts, etc. From such yarns as—homespun wool, heavy linen (red, white or chartreuse or nubby rayon or wool, metallics (use lightly) #20 reed threaded @ 1 th. per dent.

239 = Number of threads in warp

12" = width of warp in reed.

**THREADING PLAN:**
For 40/2 linen

A—B = 14 threads x 17 repeats = 238 threads

B—C = 1 thread x 1 repeat = 1 threads

239

**WEAVING PLAN:**
Use 2 shuttles—tabby & patt. weft.

1. For tabby—yarn like warp. Alternate tabby A & B.

2. For Pattern—alternate pattern & tabby.

3. Pattern suggestions: Try out twill in pairs (1-3, 2-3, 3-4 etc.) and in triples (1-2-3, 2-3-4 etc.)

4. Make your own all over designs like A & B (below.) Use the treadlings shown on previous page. Note that there is a common treadle for (1-8) for C and D Designs.

Note that a liftplan has been used to show the figured patterns. Compare it with the tie up and treadling.

Notes based on Helen D. Young’s *Heritage Linens* updated by Eleanor Best 2003