WEDDING BELLES
This 8 harness weave is a beautiful fabric for a wedding dress, and usually it is a "Belle" that wears the dress, so thus our name for the fabric this month.

PLAN FOR 40" WIDE WARP, 1200 ENDS:
1. Right Selvage, 2,1,2,1, etc-- 14 thds.
2. Thread pattern, 39 times--- 1170 thds.
3. Thread 2,3,2, to bal. last complete pattern repeat--- 03 thds.
4. Left selvage, 13 threads, threaded 1,2,1,2, etc.----- 13 thds.
Warp 40" wide x 30 per inch == 1400 ends.

WARP:
Our warp is a fine silk and rayon combination thread. I do not know the percentage of silk and rayon, but I would think about 50% silk, 50% rayon. It is quite strong, and we never had one broken thread in our warp except when I dropped one shuttle and broke one thread. It came to us on 1 1/2 to 2 lb. cones, and it is $8.00 per lb. We have a limited amount of about 50 lbs. left.

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Selv  bal  30 threads in one complete pattern repeat

LEFT:
Our weft is the same thread that was used in the warp with one difference. In the weft, we doubled it or wound 2 ends together of the silk and rayon combination thread.
TIE-UP DRAFT:

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TREADLING SEQUENCE:

There are 28 shots in one complete pattern repeat. Here is the sequence.

1. Treadle # 2—doubled silk & rayon
2. Treadle # 3—doubled silk & rayon
3. Treadle # 2—doubled silk & rayon
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23. Treadle # 4—doubled silk & rayon
24. Treadle # 1—doubled silk & rayon
25. Treadle # 2—doubled silk & rayon
26. Treadle # 3—doubled silk & rayon
27. Treadle # 2—doubled silk & rayon
28. Treadle # 1—doubled silk & rayon

END OF ONE COMPLETE PATTERN REPEAT. Do repeat over & over as desired.

SOURCE OF IDEA FOR THIS SAMPLE:

One of our customers, Lois Jacobsen, of Indiana wove this pattern for a wedding dress fabric, and the remains were used as samples in the bulletin of the Indiana Weavers Guild, and it was here that we saw and admired her work so much, that we felt you might enjoy seeing it also.

MORE ABOUT THIS FABRIC:

One of the first things I want to mention about this sample is that it is usually called Huckaback, or single huck.

It was a fairly easy fabric to weave. While the treadling sequence is a fairly long one, if you are systematic in your weaving, and develop a definite rhythm in your weaving, you will find it will go much faster than anticipated.

I would like to give you the suggestions of Lois Jacobsen for the finishing of this fabric. She washed it on a gentle cycle in her washing machine, and then allowed to dry in the open air on the clothes line. Then, she steam pressed it. She also mentions that when the material was made up, she used an organza type of backing, which gave it good draping qualities.

COST OF THE FABRIC:

We had a 14 yard warp, 40" wide on the loom. It took 16,800 yards of warp thread or 1 and 3/5 pounds of this silk and rayon combination thread at $3.00 per lb. So, our total warp cost was $12,80 so the cost per yard was 92¢ per yard.

In the weft, we doubled our warp thread and used it as weft. We found it took 3 1/2 oz. per yard to weave this fabric or a total of 45 1/2 oz. or slightly less than 3 lbs. for 13 yards of finished fabric. Our total weft cost for 13 yards was $22.75 or the cost per yard was $1.75 per yard.

WARP COST PER YARD, 40" wide—-.92
WEFT COST PER YARD—-1.75
FABRIC COST PER YARD—-$2.68

BINDERS FOR DRAFTS AND DESIGNS

Imprinted on the back-bone and the front of the binder, these will hold about 3 years. Also, page protectors are available at 12¢ each. Binders are $3.50 plus pp.
HIGHLAND PLING
This is just an 8 harness twill weave but it is an interesting pattern. Be sure to look at the back of this sample, and see how the direction of the weave changes by the color effect on the two faces of the fabric.

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KEY TO COLORS IN THE WARP:
M—Lavender Grey Scottish Heather
D—darkest Grey Scottish Heather
L—Pink beige Scottish Heather

WARP THREADS USED:
About a year ago, we purchased some Scottish heather homespun type yarns, which was being discontinued by a mill in Scotland. These three yarns used in this sample are some of the heather homespun yarns and are a single ply yarn, and sometimes they have a little fleck of color spun in with the basic color of the yarn. Most of these yarns from Scotland seem to be a heather blend of colors before they are twisted and spun for warp and weft. While this is almost always a single ply yarn, it is constantly used for both warp and weft in the British Isles. For many years, I hesitated to use the single ply for warp and weft, but in the past five years, we have been able to use it with many satisfying results, as you
DRAFTS AND DESIGNS
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VOLUME 17, Number 2, October, 1974

see from this sample.
M—medium shade — Lavender Gray
D—dark shade — Navy Charcoal
L—light shade — Pink Beige

WEFT THREADS USED:
The same three colors of this heather homespun yarn is used in the weft, as well as in the warp.

REED USED:
A 12 dent reed was used, and it was double sleyed, 2 per dent or 24 per inch.

LENGTH OF WARP AND LOSS IN WEAVING AND WASHING:
Our warp was 14 yards long, 40" wide. From this length, we received 12-1/2 yards of finished fabric. As this yarn is spun in oil, I decided that this should be washed and pressed before putting in the bulletin for samples. It was 38½" wide when taken off the loom, and after washing, it lost about 1" in width to 37-1/2". And, in the total length, we lost 12" of length in the washing, so we had 12 yards and 6" of finished fabric.

TREADLING SEQUENCE:
There are just 8 shots in each pattern repeat, but you must be sure to get the right color on the right treadle to make this interesting pattern.
1. Treadle # 1—Light—Pink Beige
2. Treadle # 2—Light—Pink Beige
3. Treadle # 3—Dark—Navy Charcoal
4. Treadle # 4—Medium-Lavender Gray
5. Treadle # 5—Light—Pink Beige
6. Treadle # 6—Light—Pink Beige
7. Treadle # 7—Dark—Navy Charcoal
8. Treadle # 8—Medium-Lavender Gray
End of one complete pattern repeat. Repeat over and over as desired.

COST OF THE THREADS USED:
I purchased all that was left of two discontinued lines of heather homespun, and as a result, we are able to sell this yarn for a good price at $4.00 per lb. while it lasts. We do have about 20 colors on hand. These yarns have from 2800 to 3200 yards per lb., and we do sell them by the tube only. The tubes vary depending on color from 1 to 1½ lb. in weight.

COST OF THE FABRIC:
In our 14 yard warp, 40" wide, we used 2 lbs. 1 oz. of the Pink Beige; 1 lb. 3 oz. of the Lavender Gray, and 1 lb. of the Navy Charcoal. So, it took 4 lbs. 4 oz. for our 14 yard warp. Our total warp cost was $17.00 or the cost per yard was $1.22 per yard.
In the weft, we used 1 lb. 15 oz. of the Pink Beige, 1 lb. 3 oz. of the Lavender Gray, and 15 oz. of the Navy Charcoal in 12½ yards of finished fabric. So, we used 4 lbs. 1 oz., so the total weft cost was $16.25 or the cost per yard was $1.30 per yard.
WARP COST PER YARD--40" wide—$ 1.22
WEFT COST PER YARD---------- 1.30
FABRIC COST PER YARD--------$ 2.52

MORE ABOUT THE FABRIC:
We had one problem with the weaving of this fabric, and we must tell you about it. As this is a single ply, heather homespun, sometimes you will come across a portion where the twist is not as tight. Thus, sometimes a warp thread will tend to pull apart. We used spee-dee cement, and glued it together and proceeded with our weaving. I might mention that tie-ing a knot and proceeding with the weaving is not the solution to this problem, as it will just pull apart again, if you are not careful, and the knot hitting on the edge of the reed will help do this. This is why I recommend as the most convenient way to handle this.

And the other thing is that we did use a temple or stretcher to keep it out as wide as possible. This will eliminate about 50% of any breakage problems of selvage or edge threads if you do use a temple or stretcher.

BINDERS FOR DRAFTS AND DESIGNS:
We had some binders made for us with the same name on the front of the binder and also on the backbone. It is marked "Drafts and Designs" in large gold letters on the front and backbone. Each binder will probably hold about three years issues without any problems. Also, we still have some of the clear plastic page protectors, which protect the complete page, and insure that you do not lose any of the samples of they come loose from the page. The binders sell for $3.50, and the page protectors are 12¢ each.
DECORATOR'S DELIGHT:
This 8 harness twill variation has been
planned for upholstery for the cushions or
seats on dining room chairs in some period
furniture.

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WARP USED:
Our warp was a 20/2 mercerized and gassed
Egyptian cotton in color called "Red."

WEFT USED:
Two types of threads were used in the
weft. One was the 20/2 egyptian cotton
and this tabby thread was in the color a
little different than the warp, and it has
the name "BRIGHT RED."

And for the pattern thread, we used 3
colors of our English tapestry or rug wool.
This yarn comes in 46 colors, and we have
them all in stock except one or two, and
we do have a new 25 lb. stock of all of
the colors at the docks in Portland, to be
picked up in a week.

The colors of the pattern threads used
were Light Purple, Magenta, and Dark Red.

REED USED:
A 15 dent reed was used, and it was
double sleyed, 2 ends per dent, or 30
threads per inch.
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VOLUME 17, NUMBER 3, NOVEMBER, 1974

WIDTH AND LENGTH OF WARP AND AMOUNT OF
FINISHED FABRIC PICKED ON THE WARP:
Our warp was set-up on the loom, and we
had a 12 yard warp, 40" wide. This wove
down in width to 36½" or actually a little
less than 39" width. On the loom, when
the weaving was finished, we had measured
11 yards and 4" of finished fabric, still
under tension. However, when the tension
was released and we took this fabric off
the loom and measured it, we found that
there was 10½ yards of finished fabric.

TEADLING SEQUENCE:
Please note that the heavy pattern
threads of the wool were used in the same
sequence of colors over and over. This
sequence was Magenta, Dark Red, and Purple
over and over.

And, also, please do note that we had
and in the same sequence all the time, an
A and a B tabby thread, between each of the
pattern threads, and this was done
in the bright red, 20/2 mercerized and
gassed, egyptian cotton.

1. Treadle # 1—Magenta, 2 ply wool
2. Treadle # a—20/2 bright red cotton
3. Treadle # b—20/2 bright red cotton
4. Treadle # 2—dark red, 2 ply wool
5. Treadle # a—20/2 bright red cotton
6. Treadle # b—20/2 bright red cotton
7. Treadle # 3—lt. purple, 2 ply wool
8. Treadle # a—20/2 bright red cotton
9. Treadle # b—20/2 bright red cotton
10. Treadle # 4—Magenta, 2 ply wool
11. Treadle # a—20/2 bright red cotton
12. Treadle # b—20/2 bright red cotton
13. Treadle # 3—dark red, 2 ply wool
14. Treadle # a—20/2 bright red cotton
15. Treadle # b—20/2 bright red cotton
16. Treadle # 2—lt. purple, 2 ply wool
17. Treadle # a—20/2 bright red cotton
18. Treadle # b—20/2 bright red cotton

End of one complete pattern repeat. Repeat
over and over as desired. And on your
last and final repeat, repeat the first
3 threads of your pattern to balance the
pattern completely.

COST OF THE THREADS USED:
The 20/2 egyptian cotton comes in 90 plus
colors, on 1/2 lb. cones, and it is $4.25
per 1/2 lb. cone, or $8.50 per lb.
The 2 ply english tapestry wool, or rug
wool comes on 4 oz. tubes, and it is $2.00
per 4 oz. tube, or $8.00 per lb.

MORE ABOUT THE FABRIC:
First of all, our sample is not washed
and pressed, or it would be firmer, closer
and lay flat, and would have a much softer
hand or feel. So do wash in Luke-warm or
warm water, extract, allow to drip dry and
then steam press your finished fabric.

Secondly, a firm, even, double, beat is
important. Do beat the 2nd time with your
shed open on the next shot before you
throw your shuttle.

This one is quite easy to weave. No
problems that we can tell you about. Once
you get used to the color sequence, you
will find it fast and easy to weave, and
a good weaver should be able to weave a
yard in between 1 to 2 hours. You will be
surprised. It will weave much faster than
you think.

I might add that I intended weaving a
small diamond pattern, which we do have
here. However, it is not very distinct,
as the color does distract from the pattern.
And, our diamond pattern was woven on the
sequence of 1,2,3,4,3,2,1. However, the
more I think about it, the more I think
I would have liked it if I had woven
1,2,3,4,1,3,2,1.

Another thing that I wonder about is
if it wouldn't have been better to weave
from light to dark for beginning to center of
the pattern, and dark to light from
the center to the beginning. I think
that in this way, with the alternate
treadling that I gave above, the diamond
would be much more distinctive in the
pattern.

We have done one or two other samples
somewhat similar in years past, but I
wanted again to demonstrate how versatile
a point twill draft is, and also how im-
portant the use of color is in these
upholstery fabrics.

COST OF THE FABRIC:
In the warp, we used 1 lb. 12 oz. of
the 20/2 red. Total warp cost for 12
yards was $14.97, or the cost per yard,
40" wide, was $1.24 per yard.

In the weft, we used 1 lb. 10 oz. of
the bright red cotton tabby, and 5 lbs.
10 oz. of the 2 ply English tapestry or
rug wool. Total weft cost for 10½ yards
was 258.80, or the cost per yard was
35.60 per yard.

WARP COST PER YARD, 40" wide—- $1.24
WEFT COST PER YARD, 39" wide—- $5.60

FABRIC COST PER YARD---------- $ 6.84
NIGHT OF STARS:
This 8 harness windmill weave has been planned for an afghan or blanket. It could also be used as pillow covers. The pinwheeling stars of the design inspired the name.

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WARP:
Four colors were used in the warp; all of them were 2 ply wool yarns.
- 0—Bright Dark Blue
- X—Dark Purple
- A—Light Blue
- B—Light Blue-gray

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WEFT:
The same four colors of the 2 ply wool yarns were used in the weft.

REED USED:
We recommend that you use an 8 dent reed. It is sleyed 1 end per dent. We used a 10 dent reed in our small design sample and decided larger dents were needed. We wove the fabric you see here using a 9 dent reed. Still the yarns were tight enough in the reed that it had to be pushed with an equal amount of pressure both forward and back again. Most of you probably already own an 8 dent reed, which is another good reason for using it.
In weaving this fabric, we had knots in the warp now and then. They were cut and glued with Speedee cement so that they were invisible in the finished afghan.

This pattern was also used with a fine wool in our May 1964 Drafts and Designs. It was also shown in Handweaver and Craftsman. It is interesting to see how it changes with different colors and yarns. It obviously appeals to a lot of us.

Since it is treadled as a twill, it is really quite an easy pattern to weave. The sequence of shuttles is simple to learn.

**Cost of the Fabric:**

In the warp we used 3 pounds 14 oz. Light blue 2 ply wool, 1 pound 5 oz. Light blue-gray 2 ply wool, 3 pounds 5 1/2 oz. of Bright Dark blue 2 ply wool, and 1 pound 6 oz. Dark purple 2 ply wool. This gives us a total of 9 pounds and 14 1/2 oz. for the 14 yard warp. Our fabric was 40" wide. At $5.60 per pound for the yarn, the total cost of the warp was $55.50. This averages out to be $3.96 per yard of warp.

In the weft we used 3 pounds 4 oz. Light blue 2 ply wool, 1 pound 4 1/2 oz. Light gray-blue, 2 pounds 13 1/2 oz. of Bright Dark Blue, and 1 pound 1 oz. of Dark purple. This means the total amount of 2 ply wool yarn used in the warp was 8 pounds and 7 ounces. There were 13 yards of finished fabric. At $5.60 per pound, the total weft cost is $47.25. The weft cost per yard then is $3.94.

The cost per yard of the finished fabric is $7.90.

**Warp Cost per Yard, 40" wide** — $3.96

**Weft Cost per Yard** — $3.94

**Fabric Cost per Yard** — $7.90

**More about the Yarns Used:**

We get this soft twist 2 ply wool yarn from England. We thought it was 100% wool, but there is a slight bit of clear synthetic filament added to give it touches of sparkle. The yarn comes in approximately 4 oz. skeins and sells for $5.60 per pound. There are a total of 44 different colors to choose from. So you can design your own variation in this same yarn if you like.

We also have in stock a 3 ply yarn with the same yardage per pound, in 35 colors, just in from England. It is put-up in 4 oz. skeins. We also have the same 35 colors in a heavier 6 ply in the same type of yarn. Both of these are 100% wool, and the price is $1.70 per 4 oz. skein.
Drafts and Designs
A Guide for 5 to 12 Harness Weaves

Double Ellipse:
This most interesting 8 harness twill variation has two have circles which are opposite one another, and which make it most interesting. Woven of the new, beautiful quality, 2/32's worsted from England, this is a striking fabric.

Warp:
Our warp is a beautiful new, 2/32's worsted yarn, which we have imported from England in 33 different colors. We used four colors in the warp as listed in Key to Colors in the warp.

Weft:
Our weft was just one color of the 2/32's worsted, color # S-71, Dark Puppy Brown.

Reed Used:
A 12 dent reed was used, and it was sleyed 4 ends per dent, or 43 threads per inch.

Threading Draft:

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Key to Colors in the Warp:
1. S—color # S-71 Dark Puppy Brown
2. O—color # P.O. Melting Snow
3. X—color # S-69 Wheat Fields
4. B—color # S-70 Gold on Gold
COST OF THE FABRIC:

In our 12 yard warp, 40" wide, we used 2 1/2 lbs. total of warp thread, in 4 different colors. Thus, our total warp cost was $30.00 for 12 yards or $2.50 per yard.

In the weft for 11 yards plus of fabric, we used 2 lbs. and 4 oz. of thread for weft. Thus, the total weft cost at $12.00 per lb. comes to $27.00 for 11 yards of the finished fabric. This of course, does not count loss in width and length from washing.

WARP COST PER YARD--------- $ 2.50
WEFT COST PER YARD-------- 2.45
FABRIC COST PER YARD-------- $ 4.95

TREADLING SEQUENCE:

The treadling is a little unusual in the sequence, and we feel that in order to keep track of the sequence, we feel that it would be important that you start throwing your shuttle from the left, and end in groups as we tell you below. On the end of each row of treadling below, we will mark where your shuttle will end on the left side by an "L" and on the right side by an "R". There are 31 shots in each complete treadling sequence, and we have divided it into 6 rows in order to keep the sequence straight.

1. Treadle 1-2-3-4-5-6 -"L"
2. Treadle 5-4-3-6-5-4 -"L"
3. Treadle 5-4-3-2-1 -"R"
4. Treadle 5-4-3-2-1-3 -"R"
5. Treadle 1-2-1-3 -"L"
6. Treadle 1-2-3-4-5-6 -"L"

End of one complete treadling unit. Repeat over and over as desired.

COST OF THE THREADS USED:

The 2/32's worsted comes in 33 colors, has 8900 yards per lb., and comes on tubes of approximately 1 lb. each. The price is $12.00 per lb.

WARP WIDTH AND LENGTH:

Our warp was set up 40" wide, and we had a 12 yard warp. In the weaving, it was set up at 40" wide, and came down to about 37" when the weaving was in process. However, when we finished weaving, we had 11 yards and 1 1/2" of fabric from the 12 yard warp. We washed it, and it came down 3 more inches in the width to 34" wide, and it came down in length from 11 yards 1 1/2 inches to 10 yards and 16 inches. So, when planning, you must allow for this accordingly.

MORE ABOUT THIS FABRIC:

Even though this is such a fine thread, it does have a nice twist, and it is a botany quality yarn, so we had very little problems with it in the warping. We did find that the natural had a little more tendency to twist than did the colors, and so this means that the twist was set in the dyeing, and not set in the natural as it was not dyed.

This "Botany" quality worsted is one of the most beautiful yarns you will ever find. It is used in England for suitings of all kinds, and also for accents or stripes in many, many different kinds of suitings.

The weaving was no problem. We did try to maintain an even beat, and we feel that we averaged out to about 54 shots of weft thread per inch, slightly more than the number of threads per inch in the warp. This, is about right, as you know that in twills, the weft usually does pack in a little more than the warp.

Actually, we thought that this would work very well at 54 ends per inch, and so would like to recommend sets of this thread for anywhere from 40 to 54 per inch, depending upon what size weft thread and pattern being used.

This yarn should be beautiful yarn for the materials.

The company in England also has this in stock in the same colors in a 2/45's worsted, finer than this one. We can special order any of the colors in this finer weight in a minimum lot of 5 lbs. of a color. We have made up sample sheets of the 2/32's worsted, and they are available free of charge upon request.

We have stocked 5 lbs. each of the 33 colors, so if we do run out, we can order more and have it in about two months time, or perhaps sooner if via air-mail.

We machine washed this, and allowed it to drip dry, and then steam-pressed it. The feeling of this finished fabric is one of the most pleasant ones you will ever find in a wool yarn. As many of you know, botany quality, means that it is one of the finest quality yarns available on the market.
This pattern was inspired by a coverlet in the great book, Keep Me Warm One Night. The design is reminiscent of stairs. Call the color log cabin brown and it's a fine Early American coverlet combination. This fabric could be used as a soft, friendly, traditional coverlet, or it could make a great and durable fabric for a pants suit or skirt suit.

**TIE-UP DRAFT**

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**WARP**

Our warp was all 20/2 mercerized Egyptian cotton in Chocolate Brown, Color #1253. There are 8400 yards per pound in this finest quality cotton. It comes on 1/2 pound cones which have 4200 yards each. It is gassed cotton for strength and gloss. There are 85 colors in this 20/2 weight.

**REED USED**

The fabric was woven with a 16 dent reed sleyed 2 ends per dent or 32 ends per inch. The fabric was 40" wide in the reed so had 1280 ends in the warp.

**WEFT**

The tabby weave in the weft is the same 20/2 cotton yarn used as warp, but in a different brown color, Brown, Color #1263. The pattern weft thread is an excellent quality wool yarn, 2/18's worsted in Color #38, Vicuna Tan. This worsted yarn is from England and comes on approximately 1/2 pound cones. There are a total of 39 colors of this yarn. It also has 4800 yards per pound.
DRAFTS AND DESIGNS
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VOLUME 17, NUMBER 6 February, 1975

THREADING DRAFT

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ABOUT THE THREADING DRAFT
There are 40 threads in one complete threading sequence. The loom heddles were threaded singly, one thread per heddle.

THREADING SEQUENCE
Always treadle one tabby shot between each pattern shot as in any overshot pattern. Treadle Number 1 four times with tabby between each shot. Use Treadle Number 2 four times with a tabby shot between each shot. Use each treadle 4 times with a tabby shot between each shot. The pattern treadle sequence is: 1, 2, 3, 4, 5, 6, 5, 4, 3, 2. This is the end of one threading sequence. Repeat over and over as desired. There are 80 shots in one complete sequence.
The threading of this fabric is not complicated, but it is very lengthy. Instead of writing out each treadle of the entire sequence, we will detail the first part of the pattern and then summarize the rest in a chart for you.

1. Treadle A -- Brown 20/2 Egyptian Cotton
2. Treadle 1 -- Vicuna Tan 2/13's Worsted
3. Treadle B -- Brown 20/2 Egyptian Cotton
4. Treadle 1 -- Vicuna Tan 2/13's Worsted
5. Treadle A -- Brown 20/2 Egyptian Cotton
6. Treadle 1 -- Vicuna Tan 2/13's Worsted
7. Treadle B -- Brown 20/2 Egyptian Cotton
8. Treadle 1 -- Vicuna Tan 2/13's Worsted

THIS IS ONLY A SMALL PART OF THE SEQUENCE.

COST OF THE THREADS USED
The 20/2 Egyptian cotton that was used in both the warp and weft is $8.00 per pound and comes on ½ pound cones, with 4200 yards per cone.
The 2/13's worsted that was used as the pattern weft thread is $9.60 per pound and has 4900 yards per pound. The cones are around ½ pound each but vary a little.

COST OF THE FABRIC
There were 13 yards of warp. We used 2 pounds of Egyptian Cotton at $8.00 per pound or a warp cost of $16.00.
In the weft we used 1 pound 6 ounces of Egyptian Cotton for the tabby which cost $11.00. We used 2 pounds 3 ounces of 2/13's worsted for the pattern in the weft. At $9.60 per pound the worsted cost $21.00. The two weft threads together came to $32.00. We had 11 yards and 13 inches of finished fabric. This means that the weft cost $2.71 per yard. The warp comes to $1.23 per yard. The total cost per yard of this fabric is $3.94.
FIREFLIES
I recall the fireflies playing, flying around in circles in upstate New York and Pennsylvania. The night blinks bits of gold. This is an 8 harness weave for an upholstery fabric.

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KEY TO THREADS IN THE WARP:
0--Dark Brown 2/18's worsted
#--Sunkiss Gold 2/18's worsted
X--Daffodil Yellow 2/18's worsted

REED USED:
A 16 dent reed was used for this fabric, and it was double sleyed, 2 ends per dent.
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VOLUME 17, Number 7. March, 1975

TREADLING SEQUENCE:
There are 32 shots in one complete pattern sequence:
1. Treadle # 1 - Dark Brown 2/18's
2. Treadle # 2 - Dark Brown 2/18's
3. Treadle # 1 - Dark Brown 2/18's
4. Treadle # 2 - Dark Brown 2/18's
5. Treadle # 1 - Dark Brown 2/18's
6. Treadle # 2 - Dark Brown 2/18's
7. Treadle # 3 - Daffodil 2/18's
8. Treadle # 4 - Daffodil 2/18's
9. Treadle # 1 - Dark Brown 2/18's
10. Treadle # 2 - Dark Brown 2/18's
11. Treadle # 5 - Dark Brown 2/18's
12. Treadle # 6 - Dark Brown 2/18's
13. Treadle # 1 - Dark Brown 2/18's
14. Treadle # 2 - Dark Brown 2/18's
15. Treadle # 4 - Daffodil 2/18's
16. Treadle # 3 - Daffodil 2/18's
17. Treadle # 1 - Dark Brown 2/18's
18. Treadle # 2 - Dark Brown 2/18's
19. Treadle # 1 - Dark Brown 2/18's
20. Treadle # 2 - Dark Brown 2/18's
21. Treadle # 1 - Dark Brown 2/18's
22. Treadle # 2 - Dark Brown 2/18's
23. Treadle # 3 - Sunkiss Gold 2/18's
24. Treadle # 4 - Sunkiss Gold 2/18's
25. Treadle # 1 - Dark Brown 2/18's
26. Treadle # 2 - Dark Brown 2/18's
27. Treadle # 5 - Dark Brown 2/18's
28. Treadle # 6 - Dark Brown 2/18's
29. Treadle # 1 - Dark Brown 2/18's
30. Treadle # 2 - Dark Brown 2/18's
31. Treadle # 4 - Sunkiss Gold 2/18's
32. Treadle # 3 - Sunkiss Gold 2/18's

END OF ONE COMPLETE PATTERN REPEAT.

Repeat over and over as desired.

COST OF THE FABRIC:
We had a 12 yard warp that was 40" wide. Using a 16 dent reed sleyed double, this comes to 1200 warp ends in a 40" reed. We used 6 oz. each of Sunkiss Gold and Daffodil in the warp and 1 lb. 15 oz. of Dark Brown, or a total of 2 lbs. and 11 oz. This comes to $25.80 or $2.15 per yard.

In the weft, we used 4 oz. each of Daffodil and Sunkiss Gold and 1 lb. 10 oz. of Dark Brown in 11 yards and 21" of finished fabric, so the weft cost was $1.71 per yard.

WARP COST PER YARD, 40" wide-----$ 2.15
WEFT COST PER YARD, ----------- $ 1.71
FABRIC COST PER YARD---------- 3.86

WARP:
The warp yarn is the beautiful and versatile 2/16's worsted from England. We keep this thread in stock as a standard item in 39 colors. It has about 4800 yards per pound and comes on approximately 1/2 lb. cones. This sample fabric used the following colors:
1. 0 is Color # 16, Dark Brown 2/18's.
2. # is Sunkiss Gold 2/18's Color # 17.
3. X is color # 7, Daffodil Yellow 2/18's.

WEFT:
The same three colors that were used in the warp were also used in the weft.

MORE ABOUT THE FABRIC:
This fabric has long floats on the back that make an interesting Tic-Tac-Toe design. It would be fun to use the float side as the "right" side in a use where snagging would not be a problem. The true right side of the fabric is very strong and would be well used for something that gets a great deal of wear.

The pattern is easy to weave. Be sure to use a temple to protect the selvages. None broke in weaving this sample.

The brown thread will take up faster than the yellow and orange in the warp because of the floats. You will want to keep proper tension on the lighter colored warp threads. You may just slip weighted lease sticks on the threads below the warp beam or use a length of 40" pipe. The weight from the pipe is just about right to keep the tension correct.

SOURCE OF IDEA FOR THIS SAMPLE:
In one of our Italian folios of samples, we found this one we liked. Phil Wilson, of Spokane, Washington drew it down, and from this came our sample for the month.
drafts and designs

a guide for 5 to 12 harness weaves

VOLUME 17, Number 8. April, 1975

A HARLEQUIN'S MASK

This geometry of black and white silk is created with six harnesses. Hold it up to the light and see the exciting increase in geometric patterns of the weave. This fabric would be appropriate for drapes, lampshades, any situation where light could travel through it. Or it would be beautiful in any color combinations as dress or hostess skirt fabric.

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KEY TO YARNS IN THE WARP:

X -- 4 ply black spun silk
0 -- 3 ply natural spun silk

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WARP THREADS USED:

Two silks are used in the warp. The glossy black, finer silk is 4 ply. The heavier natural silk thread is a nice, thick 3 ply. This fabric would be beautiful also woven in blends of colored yarns.

WEFT THREADS USED:

The same two silk threads are used in both warp and weft.

REED USED:

A 15 dent reed was used and it was sleyed with two or three ends of silk per dent. See below for details of correct sleying of this fabric.
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VOLUME 17, NUMBER 8. APRIL 1975

SLEYING THE REED:
Sley 3 or 4 threads of the heavier 3 ply natural silk first and last for reinforced selvages if you wish. To do this pattern, sley the reed as follows:
First dent: Two ends black silk
Second dent: Two ends black silk
Third dent: Two ends black silk and one end of natural silk together (3)
Fourth dent: One end of natural silk and two ends of black silk together (3)
Fifth dent: Two ends black silk
Sixth dent: Two ends black silk

This ends one repeat of the sleying pattern. Continue repeating this series over and over across the entire reed.
Sley selvage threads one end per dent.

TREADLING SEQUENCE:
There are 24 shots in each complete pattern repeat. There are 6 shots of the heavier natural 3 ply silk together and then 18 shots of the finer 4 ply black spun silk.
1. Treadle #4 - black silk
2. Treadle #3 - black silk
3. Treadle #2 - black silk
4. Treadle #1 - black silk
5. Treadle #4 - black silk
6. Treadle #3 - black silk
7. Treadle #2 - black silk
8. Treadle #5 - natural silk
9. Treadle #6 - natural silk
10. Treadle #7 - natural silk
11. Treadle #8 - natural silk
12. Treadle #5 - natural silk
13. Treadle #6 - natural silk
14. Treadle #3 - black silk
15. Treadle #2 - black silk
16. Treadle #1 - black silk
17. Treadle #4 - black silk
18. Treadle #3 - black silk
19. Treadle #4 - black silk
20. Treadle #5 - black silk
21. Treadle #2 - black silk
22. Treadle #1 - black silk
23. Treadle #4 - black silk
24. Treadle #3 - black silk
END OF ONE COMPLETE TREADLING UNIT.
Repeat over and over as desired.

COST OF THE FABRIC:
We made a 14 yard warp that was 40" wide.
We used 1 pound 6 ounces of the 3 ply natural silk. At $9.60 per pound that cost $13.20. There was 1 pound 2 ounces of the 4 ply black silk at $12.00 per pound. The black silk warp cost $13.50. The total cost of the warp is $26.70 or $1.98 per yard.
In the weft we used 2 pounds 4 ounces of the three ply natural silk and at $9.60 per pound this comes to $21.85. The finer, black silk weft weighed 1 pound 4 ounces. Since this silk costs $12.00 per pound that comes to $15.00. The total cost of the weft was $36.85. We had 10% yards of finished fabric. The cost of the weft was $3.43 per yard.

WARP COST PER YARD -----------------$1.98
WEFT COST PER YARD -----------------$3.43
FABRIC COST PER YARD ---------------$5.41

MORE ABOUT THE YARNS:
The softly lustrous, natural white silk we used in both warp and weft is actually a 24 ply yarn. Each of the 3 strands that are plied together have 8 very fine threads of silk twisted together. This silk is finest quality and very strong. It is excellent for warp and for weft and can even be used for elegant macrame'. It also will dye beautifully. This beautiful, natural silk has 1600 yards per pound and comes on cones with ½ pound to 2 pounds weight. They really vary in size. The cost is $9.60 per pound.
We are pleased to have located this black silk. It is richly glossy and has that scrunchy texture that you feel in silk that has really long fibers. This yarn too is excellent for both warp and weft. It is a superb quality of silk and costs $12.00 per pound.

MORE ABOUT THE FABRIC:
Where but in handweaving and very expensive commercial fabrics can you find excellent quality silk fabrics now days? Isn't it wonderful that we can have these luxurious cloths and experience the joys of creativity both. AND they don't even cost very much!
We recommend that in weaving this fabric you use a firm, even, double beat. Lease sticks were used during the weaving in back of the harnesses to keep threads even and straighten out any crossed threads. During the heddle threading process a sheet was placed over the warp beam so that the individual black silk threads could be more easily seen against the light background.
If you put in three or four threads at each side for selvages, thread them alternating on harnesses 7 and 8. Then tie up harness 7 to every other treadle and harness 8 to every other treadle.
JANICE SUSAN'S DOUBLEWEAVE TARTAN

This 8 harness doubleweave twill would be beautiful as a car robe. It is tartan on one side and warm brown twill on the other. Robin and Russ's daughter, Janice, designed this fabric for a jacket. It will team with the tartan that stars in Warp and Weft issue, November 1974. The 4 harness fabric is the same twill plaid and will be used for a skirt. This doubleweave tartan is a line-it-as-you-weave-it fabric.

TIE-UP DRAFT:

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THE WARP:

Our warp is all 12/2 worsted, finest quality Fabri-type yarn. There are 3,300 yards per pound. In this fabric we used Hot Mustard, Natural Scoured White, and lots of Cocoa Brown.

THE WEFT:

The same yarns were used in the weft.

THE REED:

We used a 12 dent reed sleyed 4 ends per dent for 48 ends per inch. This makes a really thick and interesting warp.

MORE ABOUT WEAVING THIS FABRIC:

We put on a 44½" warp 14 yards long. We like to use sectional warping for fabrics of this length. We used two spool racks since there are 96 threads in a 2" section. There was some breakage of the warp threads as they entered the tension box from the spool racks because of the angle of the threads. This could probably be eliminated by hanging a section of reed between the spool rack and the tension box. Sley this reed two ends per dent and the threads would be drawn toward the tension box in two stages with less stress.
DRAFTS AND DESIGNS

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VOLUME 17, NUMBER 9 MAY 1975

THREADING DRAFT:

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KEY FOR THREADING DRAFT:

W = Natural Scoured 1/2/2 Worsted
B = Cocoa Brown 1/2/2 Worsted
G = Hot Mustard 1/2/2 Worsted

The threading draft is simpler than it looks.

It is a plain threaded for a twill weave with a brown thread between each plain threads.

TREADLING SEQUENCE:

Treadle for a simple twill on 8 harnesses, 1, 2, 3, 4, 5, 6, 7, 8 over and over for the length of your fabric.

We came up with different systems for remembering the color sequence in an easy form.

Think of the plain and just throw a brown shuttle between each plain shot. Treadles #1, 3, 5 & 7 will always be plain colors. Treadles #2, 4, 6 & 8 will always be brown.

Read the treadling sequence chart below as you would treadle the twill weave: 1., 2., 3., 4., etc.

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COST OF THE FABRIC:

The warp used 1 lb. 3 oz. natural, 1 lb. 6 oz. gold, & 5 lb. 6 oz. brown. That makes 7 lb. 15 oz. at $9.60 per pound. The weft used 2 lb. 4 oz. natural, 1 lb. 1 oz. gold & 3 lb. 4 oz. brown to total 6 lb. 9 oz.

Our 14 yd. warp wove up to 11 yd. 13 in.

Finished fabric. Quite a take up!

WARP COST PER YARD --- --- --- $6.70
WEFT COST PER YARD --- --- --- $5.56

FABRIC COST PER YARD --- --- --- $12.26

END OF ONE COMPLETE PATTERN REPEAT.

Repeat over and over as desired.
drafts and designs

a guide for 5 to 12 harness weaves

THE WARM BLUES

This beautiful suiting fabric or upholstery fabric is very simple to weave. It becomes a very rich, lively fabric as the deep blue mixes with the flecks of cool red. The threads used are excellent quality worsted and cotton and would remain fresh looking for years of wear.

THREADING DRAFT:

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KEY TO THREADING DRAFT:
0 -- 20/2 Chicory cotton
X -- 12/2 Dark Navy worsted

TIE-UP DRAFT:

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THE WARP:

In the warp we used two threads. The fine thread is 20/2 Egyptian cotton, mercerized and gassed to create a strong, glossy thread. The Egyptian cotton color is Chicory, color number 1291.

The thicker warp thread is 12/2 worsted, a beautiful quality, tightly spun all wool yarn. The color is Dark Navy, color #3.

THE WEFT:

In the weft we used two different colors of the same type of threads as were used in the warp.

French Rose, color # 1232, was chosen for the 20/2 mercerized Egyptian cotton in the weft. The second weft yarn is again 12/2 worsted and this time Dark Pink, color #39. The Dark Pink worsted yarn was wound double on the shuttle spool to create those nice ridges of texture in the fabric.

Both of these yarns are available in many colors if you wish to create your own color combination to this fabric.
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VOLUME 17, Number Ten, June, 1975

REED USED:
For this project we used a 15 dent reed. It was sleyed with three ends per dent. Each dent holds 2 threads of 20/2 Egyptian cotton and one thread of 12/2 worsted.

TREDDING SEQUENCE:
The pattern of the use of the weft yarns as you treadle is first two shots of 20/2 Egyptian cotton and then one shot of 12/2 worsted wound double on the spool. This 2 cotton, 1 worsted rhythm is continued through out the fabric as the treading changes.

You will always throw your shuttle of cotton while treading #1 and #3. You will always throw a shuttle of doubled worsted on treadles #4, #5 and #2.

Use the following treading sequence:
1. Treadle #1 -- French Rose 20/2 cotton
2. Treadle #3 -- French Rose 20/2 cotton
3. Treadle #4 -- Dark Pink 12/2 worsted, doubled on the spool
4. Treadle #3 -- French Rose 20/2 cotton
5. Treadle #1 -- French Rose 20/2 cotton
6. Treadle #5 -- Dark Pink 12/2 worsted, doubled on the spool
7. Treadle #1 -- French Rose 20/2 cotton
8. Treadle #3 -- French Rose 20/2 cotton
9. Treadle #4 -- Dark Pink 12/2 worsted, doubled on the spool
10. Treadle #3 -- French Rose 20/2 cotton
11. Treadle #1 -- French Rose 20/2 cotton
12. Treadle #2 -- Dark Pink 12/2 worsted, doubled on the spool

THIS IS THE END OF ONE COMPLETE SEQUENCE. Repeat over and over for the length of your warp.

ABOUT THE DESIGN:
The excitement of this design comes from a combination of beautifully contrasting colors and shadows created by the rhythms of thick then thin yarns. The texture, visible in a million tiny shadows across the fabric, is amplified by the contrast of light blue and light pink cotton played against the darker blue and pink of the worsted.

It would be fun to try reversing the colors so that the cotton, which is usually the deep yarn, is darker. Then if the worsted is noticeably lighter the textural effect may even be increased by the pseudoshadows of the contrasting colors. Another way to play with the texture of this fabric would be to increase the contrast in size of the yarns used. The sample fabric of this design used a 1/19 acrylic thread, half the size of the cottons we used in this final fabric. A 2/40 cotton might be used also. The next obvious variation would be to experiment with using thicker worsted yarns.

It has been said that the same design in the hands of 10 different weavers will produce 10 different fabrics. That is the fun of designing. If you like the fabric in this issue of Drafts and Designs, and choose to make your own version with changes in color, yarns, treading or tie-up please send us a bit of your final fabric. We'd love to see the variations. It's chain creativity, with each person building on and adding her own touch.

MORE ABOUT THE THREADS:
The 20/2 mercerized, gassed Egyptian cotton is an old stand by with us. It is an excellent warp or weft. The soft luster and 88 colors make it easy to use in designing all kinds of really beautiful fabrics. It is strong and beautiful. There are 8400 yard per pound and this yarn comes on ½ pound cones at $8.50 per pound or $4.25 per cone.
The 12/2 worsted is a new weight of an old standard yarn. This is the big brother to the 2/18's worsted that many of you are familiar with. This yarn comes on ½ pound cones. There are 5560 yards per pound and the cost is $9.60 per pound.

COST OF THE FABRIC:
We made a 14 yard warp 40" wide with 45 ends per inch in a 15 dent reed. The warp took 2 pounds 2 ounces 20/2 Egyptian cotton. At $8.50 per pound that is $18.06 for the cotton. We used 2 pounds 8 ounces of 12/2 worsted. It was $9.60 per pound which comes to $14.00. The warp cost $32.06 for 14 yards or $2.29 per yard.
The length of the woven fabric was 12 yards. In it we used 14 oz. 20/2 Egyptian cotton and 2 pounds ½ ounce 12/2 worsted. The cotton used for weft cost $7.44 and the worsted cost $19.50. For the finished 12 yards, the weft cost $36.64 or $2.22 per yard.

WARP COST PER YARD, 40" wide ---- $2.29
WEFT COST PER YARD, 39½" wide --- $2.22
FABRIC COST PER YARD -------------- $4.51

The only weaving problem that might occur is a little looping of the cotton because the threads are so close. Keep the weft thread a little tighter than usual to lessen this problem.