Squares: An interesting 8 harness weave which we thought was one of the most outstanding at the Northern California Hand-Weavers' Conference last May. This pattern was worked out by Mrs. Bryant R. Smith of Vallejo, California.

Warp: Two threads were used in the warp. One was the 50/3 cotton called "Fine Weave", in black and in white and the other was a 5/2 or Perle 5 cotton in bleached white.

Weft: The weft threads were the exact same 3 threads as was used in the warp.

Reed Used: A 20 dent reed was used with a special slewing of the reed. The fine weave 50/3 cotton was sleyed 2 ends per dent for 21 dents, and then the Perle 5 or 5/2 cotton was sleyed one per dent for the next ten dents. This was repeated over and over.

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DRAFTS AND DESIGNS

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VOLUME 6, No. 1. September, 1963

MORE ABOUT THIS FABRIC:
This was a very easy to weave fabric and proof of this is found in the fact that there was only one broken thread in the fine 50/3 cotton in 7 yards of warp. The 5/2 was spliced several times in the warp, but this was because the knots in the 5/2 would not go through the 20 dent reed. However, these knots were undone, and a thread woven in so that you could not tell where they had been. There was a 7 yard warp set-up on the loom, and from this we received slightly over 6 yards of finished fabric. Actually, there was about ¼ inches over the 6 yards.

I might also suggest that you begin and end your fabric with the 5/2 white on both selvage edges. While it only weaves in on the edges when you are using the 5/2 white in the weft, this will tend to keep your fabric a little wider than it normally would weave if you had the fine weave thread only on the selvages.

I like this fabric as it is unusually light weight, but I can see this same weave adapted to other threads, and making very effective coat material in different textures and different colors of thread. Why don't you try it and see. Even an experimental piece in different colors will give you some of the possibilities of this pattern.

COST OF THE FABRIC:
The fine weave thread comes in 36 colors that are quite unusual colors. It is $1.50 per 6,000 yards spool for the white and $1.80 per each 6,000 yards spool of the colored. The 5/2 white cotton or perle 5 is $2.35 per 1 lb. cone. It also comes in about 60 colors and the colors are $2.95 per 1 lb. cone.

In the 7 yard warp, it took 5 oz. of the fine weave in black, and 4 oz. of the fine weave in white for the warp, plus 1h oz. of the 5/2 white. Thus, the warp cost for 7 yards was $1.25 or breaking it down to the cost per yard, it comes to 60¢ per yd.

In the weft, we used slightly less of each of the three, but not much so we will call the weft cost the same as the warp, i.e., $1.25. As we had 6 yards of finished fabric, this means the weft per yard came to 70¢ per yard.

**WARP COST PER YARD** - 40" wide $ .60
**WEFT COST PER YARD** - 38" wide $ .70

Fabric Cost per Yard 38" wide $1.30

---

KEY TO COLORS USED IN THE Warp

0 -- Perle 5 or 5/2 Bleached White
X -- Fine weave 50/3 WHITE Cotton
B -- Fine Weave 50/3 BLACK Cotton

TREADLING USED IN SAMPLE:

Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 3--in White 50/3 cotton
Treadle # 4--in White 50/3 cotton
Treadle # 3--in White 50/3 cotton
Treadle # 4--in White 50/3 cotton

REPEAT THE ABOVE 12 THREADS 3 TIMES so you have 36 threads and then continue as listed below.

Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 1--in Black 50/3 cotton
Treadle # 2--in Black 50/3 cotton
Treadle # 5--in White 5/2 cotton
Treadle # 6--in White 5/2 cotton
Treadle # 7--in White 5/2 cotton
Treadle # 8--in White 5/2 cotton
Treadle # 5--in White 5/2 cotton
Treadle # 6--in White 5/2 cotton
Treadle # 7--in White 5/2 cotton
Treadle # 8--in White 5/2 cotton
Treadle # 5--in White 5/2 cotton
Treadle # 6--in White 5/2 cotton

END OF ONE REPEAT. Repeat over and over.
STAGGERING STARS: This is an interesting 8 harness weave that would make beautiful drapes, excellent bedspreads, and nice tablecloths.

WARP: The warp is the 40/4 bleached white linen. This is exactly the same size as 20/2 linen, having 3,000 yards per lb. However, it is stronger than a 20/2 linen.

WEFT: The weft is the 20/2 Natural Ramie. This also has 3,000 yards per lb, and comes on 1 lb. cones.

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 6, No. 2 October, 1963

TREADLING PLAN:
The treading is given in four lines to easier break down the long treading sequence; and thus make it easier to read, to follow, and particularly to keep your place while weaving.

TREADLE AS FOLLOWS:
A--1,2,1,2,3,4,5,6,7,8,7,6,5,4,3,2,1,2,1.
B--3,7,6,5,4,3,2,1,8,7,6,5,4,3,2,1.
C--8,7,8,7,6,5,6,5,4,3,2,1,2,3,4,5,6,5,4,3,2,1,8.
D--1,2,3,4,5,6,7,8,1,2,3,4,5,6,5,6,7,8.

END OF ONE PATTERN REPEAT. Repeat over and over as desired.

MORE ABOUT THIS FABRIC:
This particular pattern was set up on the loom 40" wide. Thus, with 30 threads per inch, we had 1200 warp ends.

There were no problems in weaving with this linen, except perhaps for one minor one. Once in a while, this fine, 4 ply thread will break one of the plies. This happened very seldom, but if it does, you can either replace the thread by hanging one on the back of the loom or by using an add a warp clip spool. Sometimes, you can weave an inch or two and then pull this broken thread forward along with the other three, through the reed and then pin it to the finished web and proceed.

The pattern in this sample does not show up too clearly in the daytime. However, before you pass judgment, look at it under artificial light and notice how outstanding it is then. This is why I think that you could perhaps use for weft, a pale beige, light yellow, or a light grey or a similar color to make the pattern more outstanding.

One thing I should mention about the treading is that it will make a much nicer fabric, if you will give a double beat to make the fabric a little firmer. I would suggest that you beat once; then change to the next shed and beat again. This will keep the fabric firmer and as a result, will give you a more durable fabric.

COST OF THE FABRIC:
This fabric will cost quite a bit less than normally it would. The reason for this is that the 40/4 BLEACHED WHITE LINEN is on sale at $2.40 per lb. This would normally cost from $4.00 to $4.80 per lb. We have perhaps 200 to 250 lbs. of this particular thread still available. We did have a 20/2 linen in a lemon color at the same price, but we had only 100 lbs. of it, and this has all been sold.

In a 7 yard warp, 40/4" wide, it took 2 lbs. 12 oz. of the 40/4 bleached linen for warp. Thus the warp cost $6.60 for the 7 yards, or 92¢ per yard.

In the weft, we used 1 lb. 15 oz. of the 20/2 natural ramie. The ramie comest on 1 lb. cones, and is $3.20 per lb. Thus the weft for 6 yards of finished fabric cost $6.20 in all, or $1.04 per yard.

WARP COST PER YARD.... $ .92
WEFT COST PER YARD.... 1.04
FABRIC COST PER YARD.. $ 1.96

This is an extremely reasonable price for 40" wide fabric of linen and ramie, and should be very satisfactory in drapes because of the low cost, and the wearing abilities of linen and ramie.

FINISHING THE FABRIC:
The 40/4 linen has quite a tight twist, so I would suggest a thorough finishing of the fabric before you use it for anything.

My suggestion is to thoroughly soak the fabric in water, and wash with either lux or ivory flakes. Allow to drip dry until just damp. Then, when still damp, or if it has been allowed to dry, be sure to dampen, and then press dry with a steam iron. The finishing in this way draws the fabric together a little more, and thus allows the pattern to be more distinctive.
EMBOSSED STARS
An 8 harness weave which would make beautiful place-mats, table linens, drapes and bedspreads.

WARP:
The warp is the 40/4 linen in a bleached white. It is the exact same size as a 20/2 linen, having 3,000 yards per lb. On cones of about 1-3/4 pounds each.

WEFT:
The weft is the 20/2 natural ramie, which has 3,000 yards per lb., and comes on 1 lb. cones.

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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TREADLING SEQUENCE:
The treadling sequence for this sample is exactly the same as the threading draft. Treadles #1 through #8 are the pattern treadles and treadles #9 and #10 are the plain weave or tabby treadles.

Here is the sequence of treadles used:

Treadle: 8, 7, 6, 5, 6, 5, 4, 3, 4, 3, 2, 1, 2, 3, 4, 3, 6, 5, 6, 5, 6, 5, 6, 5, 6

Repeat over and over.

SAMPLE
DRAFTS AND DESIGNS

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VOLUME 6, No. 3 November, 1963

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PLAN FOR PLACE-MATS WITH A TWILL BORDER

Rt. Side--thread 8 to 1--3x........24 thds.
Pattern--17 times............374 thds.
To Balance--add 1 thread on 8.....1 thd.
Left Side-thread 1 to 8--3x........24 thds.
Total Warp ends..................123 thds.

This is for a place mat which is 3 threads wider than 1½" on the loom. To treadle for this mat, you want to treadle as follows:
Treadle 8 to 1 - 6 times (includes hem)
Treadle pattern sequence as given earlier until desired length is reached.
Treadle #8 - 1 time to balance
Treadle 1 to 8 - 6 times (includes hem)

Try a pastel pink 20/2 linen for warp or a rose colored linen. Use a natural or white ramie or linen 20/2 for weft.

COST OF THE FABRIC:
First of all, we wanted to mention that the 40/4 linen warp is not a regular stock item. It is the same size as a 20/2 linen or ramie, so either of these could be used as warp if desired. The 40/4 linen is on sale at a very low price of $2.40 per lb. while it lasts. It comes on cones of about 1-3/4 lbs. each.

The weft was the 20/2 natural ramie. This is a regular stock item, having 3000 yards per lb. It is $3.20 per lb.

In a 7 yard warp, 40" wide, it took 2 lbs. and 12 ounces of the 40/4 bleached linen for warp. Thus the warp cost for 7 yards came to $6.60 or in cost per yard it was 95¢ per yard.

In the weft, we used 2 lbs. 1 oz. of the 20/2 natural ramie. This was used to weave slightly over 6 yards of fabric, so we will count it as 6 yards. The cost of the weft was $6.60. Breaking it down to cost per yard, the weft came to $1.10 per yard.

WARP COST PER YARD, 40" WIDE...........95
WEFT COST PER YARD..............1.10
FABRIC COST PER YARD..............$2.05

MORE ABOUT THIS FABRIC:
This piece is very easy to weave, and I thought would make excellent bedspreads, drapes or table linens.

Our sample has been washed and pressed, and thus is a little softer and closer together than if it had been taken off the loom and cut for samples. I actually think that a 2nd and 3rd washing will make it softer and richer looking. We washed it in our automatic washing machine in the shortest cycle. Then after allowing it to drip dry, we dampened it again and pressed dry with a steam iron.

I thought that this would be even more striking if you had a pale, pastel colored warp like a light yellow or light beige in a 20/2 linen, and the natural ramie for weft. We have used the white warp because it is available and actually, we should have used a pastel color.

This piece is typical of all linens, in that it is easier to weave if you keep the tension tight when weaving. We almost always find it necessary with linens to have a much tighter tension than when weaving with cotton.

Also, if you weave place-mats of this pattern, the narrower width results in the embossed effect of the pattern being more pronounced.
STARFIRE:
An interesting 10 harness Summer and Winter Pattern that would be effective for drapes, upholstery, place-mats and table cloths.

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WARP:
The warp is the 20/2 Egyptian Cotton in a Red color.

WEFT:
Two threads were used in the weft. One was for tabby and the other was for the pattern thread.
The tabby was a 20/2 Egyptian cotton in a different red called "Jockey Red."
The pattern thread was the 20/2 Bleached White RAMIE.

REED USED: A 15 dent reed was used and it was double sleyed, 2 ends per dent or 30 threads per inch.

PLAN FOR A 40" WIDE TABLECLOTH
1. Right Border, 8 x 4 = 32 thds.
2. Pattern A to C-12 x =110 thds.
3. Pattern A to B--1 x = 30 thds.
4. Left Border, 8 x 4 = 32 thds.

TOTAL NUMBER OF WARP ENDS 1198 ends.

Sample on next page
DRAFTS AND DESIGNS

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VOLUME 6, No. 4 December, 1963

TIE-UP DRAFT:

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TREADLING:

In the threading for this sample, you sometimes have to thread two treadles at one time. Also, in the plain weave portion of this pattern, I will just mention that you do as much of this as you wish between the stars in white.

1. Treadle # 10 in Jockey Red
2. Treadle # 8 in White Ramie
3. Treadle # 11 in Jockey Red
4. Treadle # 9 in White Ramie

The above 4 treadles are for plain weave. Treadle as much as desired for the border and for the plain weave in between stars.

STAR TREADLING:

1. Treadle # 10 in Jockey Red 20/2
2. Treadles # 1 & 8 in 20/2 White Ramie
3. Treadle # 11 in Jockey Red 20/2
4. Treadles # 1 & 9 in 20/2 White Ramie
5. Treadle # 10 in Jockey Red 20/2
6. Treadles # 2 & 8 in 20/2 White Ramie
7. Treadle # 11 in Jockey Red 20/2
8. Treadles # 2 & 9 in 20/2 White Ramie
9. Treadle # 10 in Jockey Red 20/2
10. Treadles # 2 & 8 in 20/2 White Ramie

11. Treadle # 11 in Jockey Red 20/2
12. Treadles # 2 & 9 in 20/2 White Ramie
13. Treadle # 10 in Jockey Red 20/2
14. Treadles # 3 & 8 in 20/2 White Ramie
15. Treadle # 11 in Jockey Red 20/2
16. Treadles # 3 & 9 in 20/2 White Ramie
17. Treadle # 10 in Jockey Red 20/2
18. Treadles # 1 & 8 in 20/2 White Ramie
19. Treadle # 11 in Jockey Red 20/2
20. Treadles # 4 & 9 in 20/2 White Ramie
21. Treadle # 10 in Jockey Red 20/2
22. Treadles # 5 & 8 in 20/2 White Ramie
23. Treadle # 11 in Jockey Red 20/2
24. Treadles # 5 & 9 in 20/2 White Ramie
25. Treadle # 10 in Jockey Red 20/2
26. Treadles # 6 & 8 in 20/2 White Ramie
27. Treadle # 11 in Jockey Red 20/2
28. Treadles # 6 & 9 in 20/2 White Ramie
29. Treadle # 10 in Jockey Red 20/2
30. Treadles # 7 & 8 in 20/2 White Ramie
31. Treadle # 11 in Jockey Red 20/2
32. Treadles # 7 & 9 in 20/2 White Ramie
33. Treadle # 10 in Jockey Red 20/2
34. Treadles # 6 & 8 in 20/2 White Ramie
35. Treadle # 11 in Jockey Red 20/2
36. Treadles # 6 & 9 in 20/2 White Ramie
37. Treadle # 10 in Jockey Red 20/2
38. Treadles # 5 & 8 in 20/2 White Ramie
39. Treadle # 11 in Jockey Red 20/2
40. Treadles # 5 & 9 in 20/2 White Ramie
41. Treadle # 10 in Jockey Red 20/2
42. Treadles # 1 & 8 in 20/2 White Ramie
43. Treadle # 11 in Jockey Red 20/2
44. Treadles # 1 & 9 in 20/2 White Ramie
45. Treadle # 10 in Jockey Red 20/2
46. Treadle # 3 & 8 in 20/2 White Ramie
47. Treadle # 11 in Jockey Red 20/2
48. Treadles # 3 & 9 in 20/2 White Ramie
49. Treadle # 10 in Jockey Red 20/2
50. Treadles # 2 & 8 in 20/2 White Ramie
51. Treadle # 11 in Jockey Red 20/2
52. Treadles # 2 & 9 in 20/2 White Ramie
53. Treadle # 10 in Jockey Red 20/2
54. Treadles # 2 & 8 in 20/2 White Ramie
55. Treadle # 11 in Jockey Red 20/2
56. Treadles # 2 & 9 in 20/2 White Ramie
57. Treadle # 10 in Jockey Red 20/2
58. Treadles # 1 & 8 in 20/2 White Ramie
59. Treadle # 11 in Jockey Red 20/2
60. Treadles # 1 & 9 in 20/2 White Ramie

End of star.

COST OF THE FABRIC:

WARP COST PER YARD - 40" wide... $ .83
WEPT COST PER YARD ............... 1.55
FABRIC COST PER YARD ............... 2.38
SPOTS BEFORE YOUR EYES
An unusual and interesting 8 harness weave of all wool, that could be used for upholstery. It would also make very attractive place-mats or table linens in different materials. In a finer, light weight material, you could use it in dress material.

WARP
The warp thread was a 15/2 worsted yarn, color #124, Dark Brown.

WEFT
Three colors were used in the weft. They were color #124, Dark Brown; color #114, Cardinal; and color #95, Red.

THREADING DRAFT:

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REED USED:
A 15 dent reed was used, and it was double sleyed, 2 ends per dent or 30 threads per inch.

SAMPLE:
Sample on next page
DRAFTS AND DESIGNS

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VOLUME 6, NO. 5 JANUARY, 1964

TREADLING FOR THIS PATTERN:
There are 3 red blocks in this pattern, and you must alternate the two colors of red used, Cardinal and Red. However, I will give the treadling and just list it all as red, and you can adjust the colors you use according to the alternate blocks, or you can make them all one color if you wish.

Treadle #1, Red
Treadle #2, Brown
Treadle #3, Brown
Treadle #9, Brown
Treadle #10, Brown
Treadle #4, Red
Treadle #5, Brown
Treadle #6, Brown
Treadle #9, Brown
Treadle #10, Brown
Repeat ¼ Times
Treadle #7, Brown
Treadle #8, Brown
Treadle #9, Brown
Treadle #10, Brown
Repeat 8 times
Treadle #1, Brown
Treadle #2, Brown
Treadle #3, Red
Treadle #9, Brown
Treadle #10, Brown
Treadle #4, Brown
Treadle #5, Brown
Treadle #6, Red
Treadle #9, Brown
Treadle #10, Brown
Repeat ¼ times
Treadle #7, Brown
Treadle #8, Brown
Treadle #9, Brown
Treadle #10, Brown
Repeat 8 times

Tie-up Draft:

More about this Fabric:
Several different selvages were tried out and none of them proved to be satisfactory. We do not promise that the selvage given here will be satisfactory either, but it is about the best we could work out. That which will give us a very good edge when weaving the colored blocks, will not give a good selvage edge in the areas between the spots.

We also feel that there are many other uses for this pattern other than the sample woven herewith. I think it could be used with finer threads like 20/2 cotton for dress material, or with linens for place-mats and table cloths. Why don't you try it and see what you can do with the threading draft and with different threads.

Cost and Availability of Yarns Used
The 2/15's worsted yarns used in this sample were furnished to us by LILLY MILLS COMPANY, SHELBY, NORTH CAROLINA.
The 2/15's worsted has 4200 yards per pound. It comes on 2 oz. tubes, and is priced at $6.40 per lb. It comes in 38 different colors. This can be also purchased from ROBIN & RUSS HANDWEAVERS, as we are distributors of all of Lily's Hand Weaving Products at their regular prices. You may purchase as little as 2 ounces of any of these colors if desired.

Cost of this Fabric
For 7 yard warp, 40" wide, it took 1 lb. 14 oz. of Dk. Brown Worsted at $6.40 per lb. Warp Cost $1.72 per yard.
Weft took 2 oz. Cardinal, 2 oz. red, 1 lb. 11 oz. dark brown. Weft cost for 6 ¼ yards was $2.09 per yard.

Fabric Cost Per Yard, 38" Wide - $3.81.
drafts and designs

a guide for 5 to 12 harness weaves

VOLUME #6, ISSUE #6, FEBRUARY, 1964

A TWO BLOCK DAMASK WEAVE:
This is a true, 2 block, 10 harness damask weave. The two threads with the extreme contrast in color and texture make it quite interesting.

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WARP USED:
The warp used is the 40/2 bleached white Ramie (same as 40/2 linen) and this has 6,000 yards per lb., and comes on 1 lb. cones.

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WEFT USED:
The weft thread was a fast dyed rayon thread called No. 600 Rayon. The color we used was called Myrtle Green. This thread has 7400 yards per lb.

REED USED:
The reed used was a 12 dent reed, and it was triple sleyed, 3 ends per dent, or 36 threads per inch.

TREADING SEQUENCE:
A. For border and hem, you treadle #6, #7, #8, #9 and #10 as long as desired.
B. Treadle 1,2,3,4,5--Four times and then treadle 6,7,8,9,10--one time. Repeat this until you have 5 white squares or blocks of damask. (cont.)
GOLD DIAMONDS

An interesting 8 harness huck weave woven in an overshot manner. Would make excellent drapery, tablecloths, table linens.

WARP

The warp is 20/2 bleached ramie (same as 20/2 linen) in bleached white. It is available on 1 lb. cones, 3,000 yards per cone.

WEFT

Two threads were used in the weft. The pattern thread was a fairly heavy gold thread supported with rayon and comes on about 1/2 lb. spools.

The other weft thread was a tabby thread and was the 40/2 bleached ramie used as tabby.

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 6, NO. 7 March, 1964

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TREADLING SEQUENCE:

First of all, be sure to use a fine tabby of h0/2 ramie or h0/2 linen between each pattern shot. Here is the sequence just for the pattern treadles.

- Treadle #1 -- 4 times with gold
- Treadle #2 -- 3 times with gold
- Treadle #3 -- 3 times with gold
- Treadle #4 -- 3 times with gold
- Treadle #5 -- 3 times with gold
- Treadle #6 -- 4 times with gold
- Treadle #5 -- 3 times with gold
- Treadle #4 -- 3 times with gold
- Treadle #3 -- 3 times with gold
- Treadle #2 -- 3 times with gold

End of one pattern repeat. Repeat over and over as desired. On your last pattern repeat, be sure to end by treadling #1 - 4 times with your gold metallic to balance the pattern.

MORE ABOUT THIS PATTERN:

I thought that this was a very interesting huck variation, and that it would make excellent tablecloths, drapery, place-mats, etc. I have used gold for the pattern thread here, but you could use many other things. For instance you could use a 16/2 ramie or a 20/2 linen in color for the pattern, and the fine h0/2 ramie or linen for the tabby. To make a little softer fabric, you could use a 16/1 ramie or a 20/1 linen for tabby. However, I sometimes find that the 16/1 or 20/1 is not always perfectly smooth, and as a result, sometimes a slightly slubby effect results in your fabric if you use the 16/1 or 20/1 for tabby.

This is actually very close to an overshot weave on a huck threading. This is just one of the many ways that you can vary huck weaves on 8 harnesses.

We set up a h0/2" wide warp, 8 yards long, and from this we received 7 yards exactly of finished material.

THREADING FOR TABLECLOTH h0-2/3" WIDE
1. Rt. Selv, 1,8,7,6,5,4,3,2......8 thds.
2. Pattern h0 x 30 threads.....1200 thds.
3. To balance-1,2,3,2,1............5 thds.
4. Lt. Selv, 2,3,4,5,6,7,8,1......8 thds.
TOTAL NUMBER OF WARP ENDS......1221 thds.

THREADING FOR MATS, h1-2/3" WIDE
1. Rt. Selv, 1,8,7,6,5,4,3,2......8 thds.
2. Pattern h1 x 30 threads.....1420 thds.
3. To balance-1,2,3,2,1............5 thds.
4. Lt. Selv, 2,3,4,5,6,7,8,1......8 thds.
TOTAL NUMBER OF WARP ENDS......1431 thds.

COST OF THREADS USED:
1. The 20/2 Bleached Ramie is $3.20 per pound, on 1 pound cones.
2. The h0/2 Bleached Ramie is $4.50 per pound, on 1 lb. cones.
3. The heavier gold supported with rayon is $2.00 per spool, and there is about 6 oz. of metallic on each spool.

COST OF THE FABRIC:
WARP: It took 3 lbs. 2 oz. of 20/2 Bleached Ramie for 8 yards of h0-2/3" wide warp. This comes to $10.00 for 8 yards or $1.25 per yard.
WEFT: It took 3 spools of gold metallic for 7 yards of finished fabric, costing $6.00. It took 12 oz. of h0/2 Bleached Ramie, this coming to $3.37. The total weft cost for 7 yards was $9.37, or $1.34 per yard.
WARP COST PER YARD- h0-2/3" wide...$1.25
WEFT COST PER YARD......................1.34
FABRIC COST PER YARD....................$2.59
PARQUETRY

An exciting 6 harness pattern that reminds us of a piece of parquetry or wood inlay. This would be excellent for upholstery material, and for many decorative uses.

WARP

The warp is a 10/2 Brown Cotton, with 4200 yards per lb.

WEFT

There are three threads used in the weft. Two of them are carpet warp in gold and yellow. This is 8/4 in size with 1600 yards per lb. The gold and the yellow carpet warp are both wound together on one bobbin.

The other weft thread is a 12 cut rayon chenille in an aqua blue color. This thread is not always available, but is very striking in a use like this.

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REED USED

A 12 dent reed was used, and it was double sleyed, 2 ends per dent or 24 threads per inch.
Still another fact of interest is the use of the chenille in this sample. In this type of weave the pattern is achieved by some of the weft threads bunching up at regular intervals to create a scalloped effect. If you use something like we did in the chenille, it tends to slip together and pack tighter than many stiffer threads would, and thus, is much more satisfactory for this type of effect. Most of the soft perle cottons would be excellent for this use, but a stiffer thread like a plied linen or very tightly twisted cotton would not be too satisfactory.

TIE-UP DRAFT

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End of one repeat. Repeat over and over as desired.

MORE ABOUT THIS FABRIC

We have a 6 harness threading here, and really have not taken advantage of the extra two harnesses as we could have done.

On a weave of this type, you could have two blocks or units staggered with one color, and surrounded entirely with another color. With the addition of each two harnesses, you could have or add another block or unit which resembles a honeycomb. This could be staggered to make 3 combs in a row on 6 harnesses.

However, the sample as we wove it, is quite interesting, and we hope that you enjoy it.

We wove on our original sample about 6 quite interesting samples, and we hope to share with you in later issues, some of the different effects that were achieved.

One thing that is most important in this fabric, particularly if it is to be used for upholstery, is that it should be beat very tightly, and you should even use a double beat or a triple beat.
SWIRLING QUEUES
An interesting 8 harness weave in all wool, which is excellent for suiting, coat material and the like. Notice that there is a sort of swirl effect in the pattern which would be much more pronounced if you would use the same two colors for both warp and weft.

THREADING DRAFT

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WARP COLOR KEY
X - Lavender, 2/18's Worsted, Fabri 0 - Dark Navy, 2/18's Worsted, Fabri

WARP:
The warp is Bernat's 2/18's worsted yarn, called Fabri in two colors as is given above.

WEFT:
The weft is also Bernat's 2/18's worsted, Fabri, in two additional colors. The colors used in the weft were the Grey Fabri and also the Royal Blue Fabri.

REED USED
A 15 dent reed was used, and it was double sleyed, 2 ends per dent, or 30 threads per inch.

MORE ABOUT THIS FABRIC:
This sample is an easy one to weave, and the threading and treadling sequence gives you some indication of this.
I do think that the pattern would stand out much more if we had just used two colors in the fabric instead of four as we did. In other words, you should use the same two colors in both the warp and the weft. When you do this, the swirling queues show up much more.
On this sample, we had a selvage of 12 threads of a nylon about the same weight as
the wool. We had twelve threads on each
selvage edge, and on an 8 harness loom this
would be threaded on the right 5, 6, 7, 8, 1, 2,
3, 4, 5, 6, 7, 8. On the left, it would be
threaded 1, 2, 3, 4, 5, 6, 7, 8, 1, 2, 3, 4.

I might also mention that you can also
(if you have 10 harnesses) thread a selvage
on harnesses 9 and 10 of 12 threads, and tie
up harness 9 to treadles 1, 3, 5, 7, and tie up
harness 10 to treadles 2, 4, 6, 8, and this
would also make easier weaving.

Also the selvage was not wound on the
beam with the wool warp, but was on spools
and wrapped around the warp beam one time
and then hung from the back. Thus you can
keep a different tension on your selvage
edge. If wound on the beam with your wool,
because of the elasticity of the wool, the
selvage threads would gradually become
loose and cause problems.

There were only 5 broken threads in this
8 yard warp, and this was due entirely to
the 5 knots that appeared in the warp.

This sample was suggested by a piece
from a travelling exhibition of the Foot-
hill Weavers of Pasadena, California. How-
ever, a similar pattern also appeared re-
cently in Handweaver & Craftsman.

TREADLING SEQUENCE:

The treadling is a simple progression of 1
to 8 using the grey fabric, color #2792, and
then a second progression of treadles 1 to 8
using the Royal Blue fabric, color #2750.
Treadle: 1, 2, 3, 4, 5, 6, 7, 8 - Grey
Treadle: 1, 2, 3, 4, 5, 6, 7, 8 - Royal Blue

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1 2 3 4 5 6 7 8

COST OF THREADS USED:

The fabric comes in 45 different
colors on 2 oz. skeins. It is $6.80 per
lb. in 1 lb. of a color, or it is $1.00
per 2 oz. skein if less than 1 lb. of a
color is purchased. It has 4800 yards
per lb., or 600 yards per 2 ounce skein.

COST OF FABRIC:

An 8 yard warp was made and it was
40" wide, 30 threads per inch. In the
warp, it took 1 lb. of the Dark Navy
Fabric and 1 lb. 1 ounce of the Lavender
Fabric. Thus the warp cost for 8 yards
was $14.03 for this amount. Breaking it
down to cost per yard, it comes to $1.75
per yard.

In the weft, we used 12 ounces of
Grey Fabric, and 12 ounces of Royal Blue
Fabric. We received 6 yards and 21" of
fabric from the 8 yard warp. The total
weft cost was $10.20, and the weft cost
per yard was $1.57.
WARP COST PER YARD........ $1.75
WEFT COST PER YARD........ 1.57
FABRIC COST PER YARD..... $3.32

EDITOR'S NOTE:

The April and May issues are mailed
together this month. Because of two
conferences within one month and because
of a ten day workshop, things have gotten
far behind. We will try and see that
this does not happen again. At least,
we hope that it does not happen again,
soon. Hope you will excuse the delay.

Russell E. Groff
An unusual honeycomb weave that is an 8 harness point twill with the honeycomb being achieved by the combination of unusual tie-up and treadling sequence.

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**WARP THREADS USED:**

A size 20/2 linen was used in the warp in two colors. One of these was the 20/2, natural or oyster colored linen. The other color was a bright skipper blue.

**KEY TO COLORS IN THREADING DRAFT:**

- X - 20/2 linen in skipper blue
- O - 20/2 linen in oyster

**REED USED:**

A twelve dent reed was used and the warp threads were triple sleyed, or 3 ends per dent, or 36 threads per inch.
DRAFTS AND DESIGNS

Published monthly (except July and August) by Robin & Russ Handweavers, 533 North Adams St., McMinnville, Oregon.

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Volume 6, Number 10, June, 1964

WEFT USED:
In the weft, we used a different size linen than in the warp. We used a 10/1 linen as the weft thread, so that the resulting fabric would be a little tighter or pack in a little tighter, and also, when washed several times, it would have a much softer feeling.

TREADING SEQUENCE:
The treadling sequence is exactly the same as the threading. In color sequence, the colors are reversed. Where we used natural in the warp, you weave with skipper blue, and where we had skipper blue in the warp, you weave with natural. Here is the treadling sequence.
A. Treadle 8, 7, 6, 5, 4, 3, 2, 1, 2, 3, 4, 5, 6, 7, 8 in 10/1 oyster or natural linen.
B. Treadle 7, 6, 5, 4, 3, 2, 1, 2, 3, 4, 5, 6, 7, 8, 7, 6, 5, 4, 3, 2, 1, 2, 3, 4, 5, 6, 7 in skipper blue.
End of one repeat. Repeat over and over.

COST OF THREADS IN THIS FABRIC:
1. The 20/2 oyster or natural linen comes on 1 lb. cones, and is $4.00 per lb.
2. The 20/2 Skipper Blue linen comes on 1 lb. cones and is $6.10 per lb.
3. The 10/1 natural linen comes on 1 lb. cones and is $3.70 per lb.
4. The 10/1 skipper blue linen comes on 1 lb. cones and is $5.30 per lb.

This linen may also be purchased on 2 oz. spools if desired. It is about 75¢ per pound more expensive than on the 1 lb. cones. All of these threads are available from Robin & Russ Handweavers.

COST OF THE FABRIC:
We had an 8 yard warp, 40" wide. It took 2 lbs. 1 lb. oz. of the oyster linen and 1 lb. 6 oz. of the skipper blue linen for warp. Thus the warp cost of this was $19.50 for the 8 yards or $2.44 per yard. In the weft, we used 9 ounces of the oyster linen and 1 lb. 6 oz. of the skipper blue linen. This was the 10/1 linen and the total cost of the weft was $9.37. We received about 62 yards of finished material from the 8 yard warp, so the cost per yard of weft in 62 yards of finished material comes to $1.44.

WARP COST PER YARD........... $2.44
WEFT COST PER YARD........... $1.44
FABRIC COST PER YARD........... $3.22

MORE ABOUT THIS FABRIC:
This fabric is somewhat like some of our old Colonial American hand woven pieces in that it has a long float in the warp and weft. This did not seem to bother some of the early Colonial weavers, and when made of linen, did not seem to bother the pieces themselves as some have been preserved for several hundred years in perfect condition.

The only problem that came up in the weaving of this fabric was this problem of long float threads. As they float and do not weave in, they become looser and looser and tend to spoil the way the shed should open up. However, we were able to weave this 8 yard warp without too much trouble, but I imagine that if you had a longer warp, you would have to cut it off about every 8 yard length and tighten up the tension on the float threads by retieing your warp. If you wanted to weave a longer length than this, you would have to have a double warp beam to accommodate for these float threads.

Also, one other thing that we noticed was that there seemed to be quite a difference in size of the two different colored warp threads. The skipper blue linen appeared heavier than the oyster linen, and it is my belief that this was caused by the dyeing of the linen this skipper blue color. In soaking in the dye, I feel that the linen absorbs the color and becomes thicker and also perhaps it might lose a little of the tighter twist, and thus become a thicker thread.