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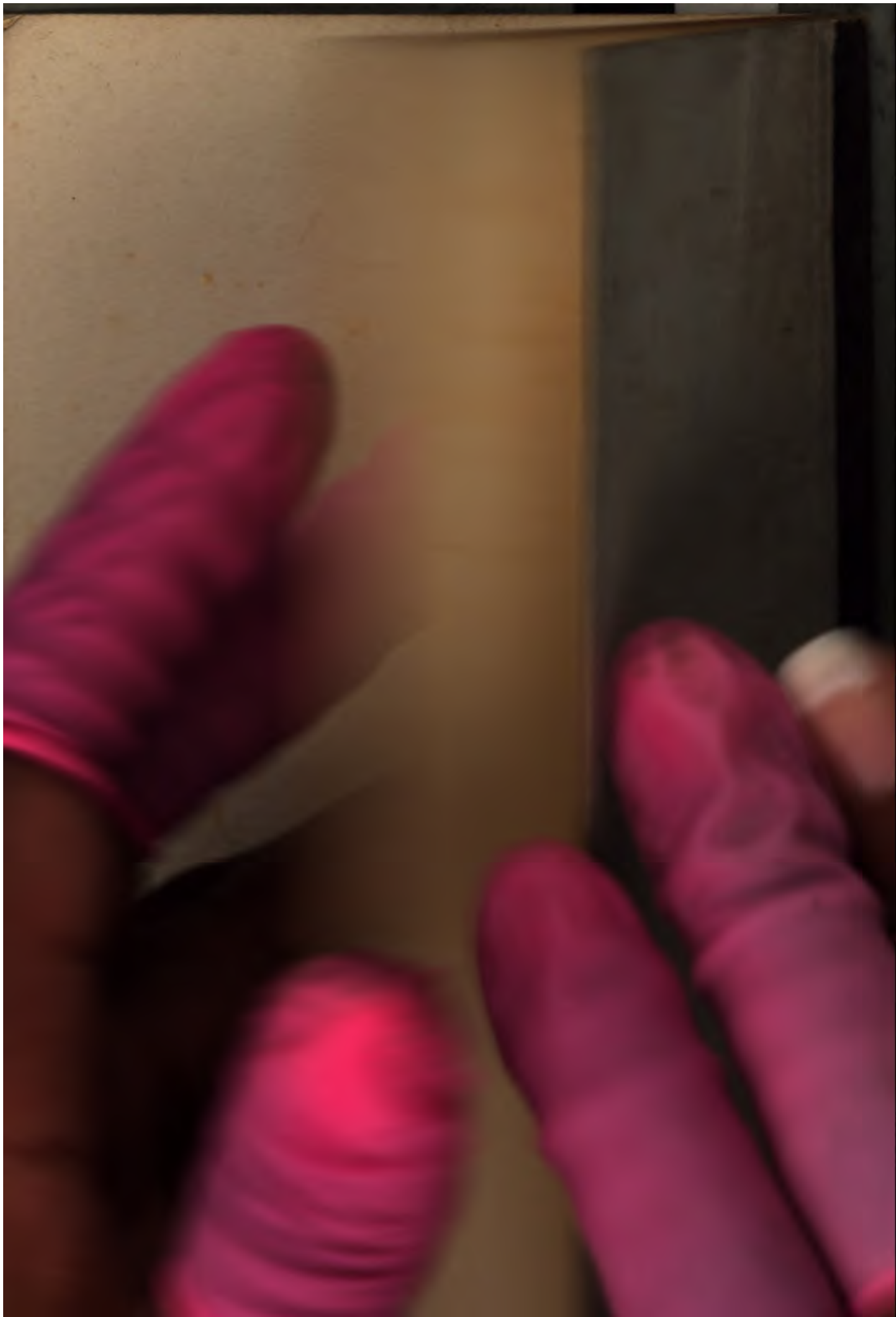


THE
MERCHANT'S
AND
COTTON MANUFACTURER'S
ASSISTANT,
BY JOHN BENNETT.

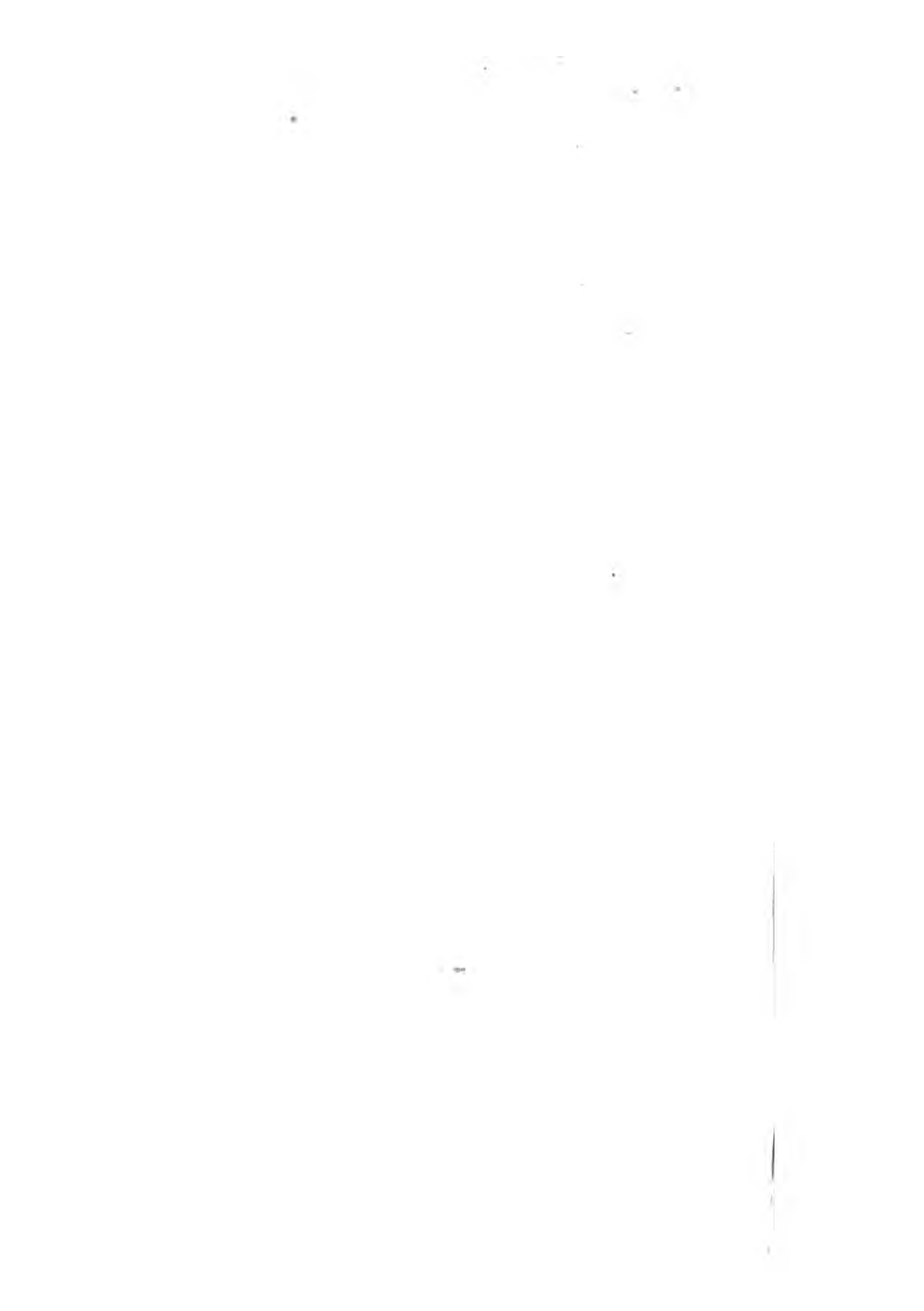
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THE
MERCHANT'S
AND
COTTON MANUFACTURER'S
ASSISTANT,
BEING A
SET OF TABLES

IN A CONVENIENT FORM, IN WHICH ARE EXHIBITED AT
ONE VIEW THE

QUANTITY OF HANKS OF YARN IN A PIECE OF CLOTH

16, 20, 29, $37\frac{1}{2}$, and 46 yards long;

Of a given number of Threads in one inch and inches wide:

AND ALSO

THE WEIGHT IN POUNDS & OUNCES
OF ANY NUMBER OF HANKS

from 16 to 400 Hanks of any numbers of Yarn from eighteens
to one hundred and tens; by which the quantity of
Warp and Weft may be easily ascertained in
almost any kind of

COTTON MANUFACTURED GOODS,

BY JOHN BENNETT.

ENTERED AT STATIONERS' HALL.

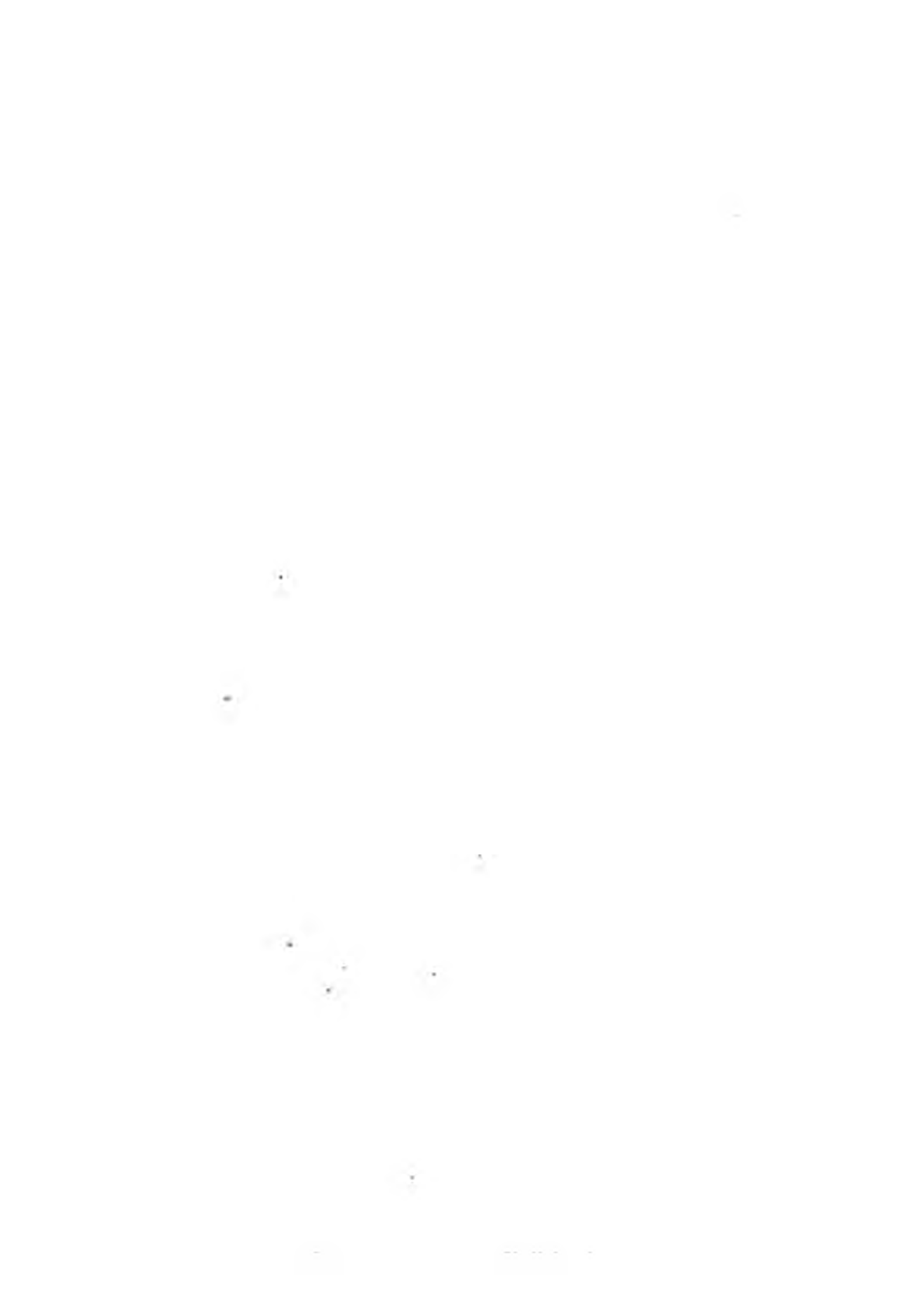
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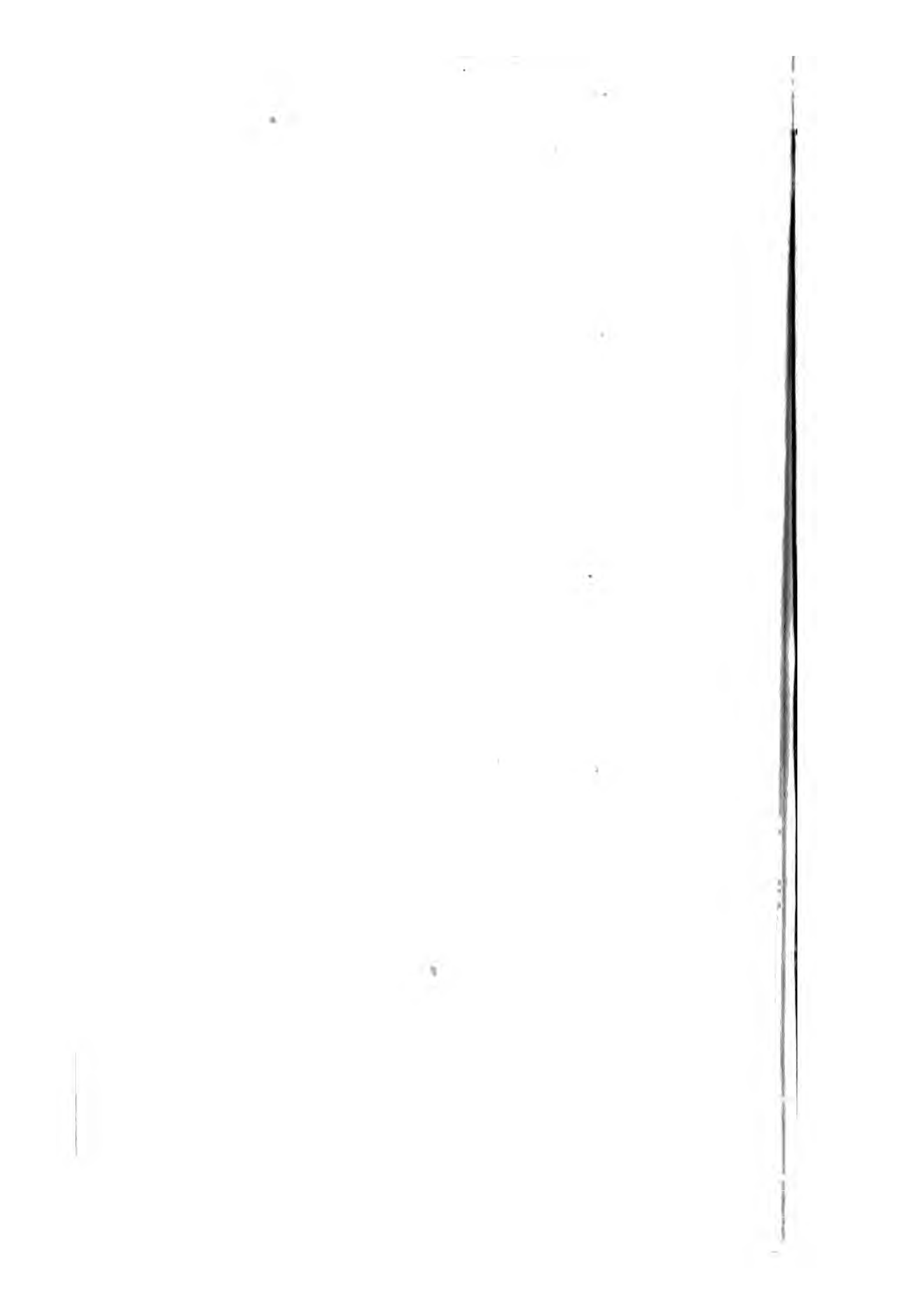
BLACKBURN:

PUBLISHED FOR THE AUTHOR BY
JOHN N. HAWORTH, PRINTER & STATIONER, CHURCH-ST.

1852.







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P R E F A C E .

The inconvenience which most Manufacturers feel in the hurry of business, through the various changes constantly taking place in the lengths, breadths and threads in one inch of Cotton Cloth; is a sufficient proof of the necessity and utility of this publication.

It may be objected, at first sight, that these tables are not sufficiently copious; but I think such an objection easily removed, by a little acquaintance with their pliancy and adaptation to almost every description of Cotton Goods. It is quite possible to write a ponderous Volume of Manufacturing tables; but any unweildy extent would make such tables comparatively useless and involved.

My object in this publication has been to produce a set of Tables, at once concise and portable, and of sufficient extent to answer all practical purposes.

When the length breadth and threads in one inch are known, the quantity of yarn is correctly given in hanks and fractions of hanks; instead of the more tedious and inconvenient mode of expressing them in hanks, leas and yards. As many of the fractions of hanks if correctly given are of a large and broken kind, which to many people would be difficult to read, I have expressed their nearest value by eighth's, fourth's, and halves; and in most instances have given the fraction rather over than under.

I have made these calculations on the usual allowance for the weaving up of yarn, viz:—

For 16 yards length of Cloth, 17 yards of Yarn.						
„	20	„	„	21	„	„
„	29	„	„	30½	„	„
„	37½	„	„	41	„	„
„	46	„	„	48½	„	„

These lengths have been selected because they are the most common make; but by multiplying, subtracting or adding fractional differences, the quantity of yarn in almost any length or breadth may be obtained. (see examples.)

The hanks weight Tables claim a high value from their application to various required results. Besides at one view giving you the exact weight of any given quantity of hanks, of any given numbers of yarn you may, by tracing the hanks weight Table, find the correct numbers of yarn to make a piece of cloth of any fixed weight. (see examples.)

These Tables I have intended to apply to the Stockport Reed which counts by the number of threads in one inch.

It is almost superfluous to give any positive calculation for the amount of visible and invisible loss sustained in the weaving; for the quantity of waste depends so much on the quality of yarn used. As a general guide however, it may be stated that manufacturers of the highest standing in the trade, estimate the loss in Weft at 4 per cent. or 1-25th, and of Twist at 2 per cent. or 1-50th.

From the considerable experience I have had, I believe these Tables in their arrangement extent and portable form, will be found practically useful to every manufacturer.

JOHN BENNETT.

Blackburn, 5th May, 1852.

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EXAMPLES.

Required the number of Hanks in a piece of Cloth, $37\frac{1}{2}$ yards long, 37 inches wide, and 64 threads in 1 inch.

See No 4, $37\frac{1}{2}$ yards hank Table. Opposite 39 inches trace 64 threads in an inch on the top line, and you will find $121\frac{7}{8}$ hanks, and if the Weft and Twist be of one number, double the hanks found will be the exact number of hanks required.

Required the number of Hanks, Warp and Weft in a piece of Cloth, 24 yards. 25 yards, 30 yards and 36 yards long, 41 inches wide, 56 threads in 1 inch in the reed, and 60 threads in the Weft.

For 24 yards—see No. 1, or 16 yard hank Table for Warp. Opposite 43 inches trace 56 threads in 1 inch, and you will find $48\frac{3}{4}$ hanks: add $\frac{1}{2}$ and you have 73 hanks.

For Weft after the same manner you have $78\frac{3}{8}$ hanks.

For 25 yards—see No. 2, or 20 yards hank Table.

For Warp opposite 43 inches trace as before and you will find $60\frac{1}{4}$, add $\frac{1}{2}$ and you have $75\frac{3}{4}$ hanks.

For Weft after the same manner you have $80\frac{3}{4}$ hanks.

For 30 yards—see same Table as last and find the number of hanks after the same manner as before, and add $\frac{1}{2}$.

For 36 yards find the number of Hanks after the manner as before described on both No. 1 or 16 yard hank Table, and No. 2 or 20 yard hank Table: add them together and you have the required hanks.

Required the numbers of Yarn to make a piece of Cloth weighing 3lb. 30 yards long, 33 inches wide and 68 threads in the Reed and Weft.

See No. 2 or 20 yard hank Table, and opposite 35 inches in a line with 68 threads you find $59\frac{1}{2}$ hanks, add $\frac{1}{2}$ and you have $89\frac{1}{2}$ hanks, being half the hanks you require. On the hanks weight Table trace from 90 hanks until you come to half the weight you require, which you find 60's the number required. These calculations are made for Raw Yarn, with no allowance for the weight gained by size.

It will be seen that examples might be multiplied to almost extent, but space will not allow of any more here.

TABLE No. 2.

**GIVING THE NUMBER OF HANKS, TWIST OR WEFT
IN 20 YARDS OF CLOTH.**

TABLE No. 1.

Giving the number of Hanks, Twist or Weft in 16 yards of Cloth.

16 yards long of Cloth or 17 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.							
	16	18	20	22	24	26	28	30
30	$9\frac{3}{4}$	$10\frac{7}{8}$	$12\frac{1}{8}$	$13\frac{1}{2}$	$14\frac{5}{8}$	$15\frac{1}{2}$	17	$18\frac{1}{4}$
31	10	$11\frac{1}{4}$	$12\frac{1}{2}$	$13\frac{3}{4}$	$15\frac{1}{4}$	$16\frac{1}{2}$	$17\frac{1}{2}$	$18\frac{3}{4}$
32	$10\frac{1}{4}$	$11\frac{3}{4}$	$12\frac{3}{4}$	$14\frac{1}{4}$	$15\frac{3}{4}$	$16\frac{3}{4}$	$18\frac{1}{2}$	$19\frac{1}{2}$
33	$10\frac{3}{4}$	12	$13\frac{1}{4}$	$14\frac{3}{4}$	16	$17\frac{1}{4}$	$18\frac{3}{4}$	20
34	11	$12\frac{1}{2}$	$13\frac{1}{2}$	$15\frac{1}{4}$	$16\frac{1}{2}$	$17\frac{1}{2}$	$19\frac{1}{4}$	$20\frac{5}{8}$
35	$11\frac{1}{2}$	$12\frac{3}{4}$	$14\frac{1}{4}$	$15\frac{5}{8}$	17	18	$19\frac{3}{4}$	$21\frac{1}{4}$
36	$11\frac{3}{4}$	13	$14\frac{1}{2}$	16	$17\frac{1}{2}$	$18\frac{1}{2}$	$20\frac{1}{4}$	$21\frac{3}{4}$
37	12	$13\frac{1}{2}$	15	$16\frac{1}{2}$	$17\frac{3}{4}$	19	$20\frac{3}{4}$	$22\frac{1}{2}$
38	$12\frac{1}{2}$	$13\frac{3}{4}$	$15\frac{3}{4}$	$16\frac{3}{4}$	18	19	21	23
39	$12\frac{3}{4}$	14	$15\frac{1}{4}$	$17\frac{1}{4}$	18	20	$22\frac{1}{4}$	$23\frac{3}{4}$
40	$12\frac{7}{8}$	$14\frac{1}{2}$	$16\frac{1}{4}$	$17\frac{3}{4}$	$19\frac{1}{4}$	21	$22\frac{3}{4}$	$24\frac{1}{4}$
41	$13\frac{1}{4}$	$14\frac{3}{4}$	$16\frac{3}{4}$	$18\frac{1}{4}$	19	$21\frac{1}{4}$	$23\frac{1}{4}$	$24\frac{3}{4}$
42	$13\frac{3}{4}$	$15\frac{1}{4}$	17	$18\frac{3}{4}$	20	22	$23\frac{3}{4}$	25
43	$13\frac{7}{8}$	$15\frac{3}{4}$	$17\frac{3}{4}$	$19\frac{1}{4}$	20	$22\frac{3}{4}$	$24\frac{3}{4}$	26
44	$14\frac{1}{4}$	16	$17\frac{7}{8}$	$19\frac{3}{4}$	21	$23\frac{1}{4}$	25	$26\frac{3}{4}$
45	$14\frac{1}{2}$	$16\frac{1}{2}$	$18\frac{1}{4}$	20	$21\frac{1}{2}$	$23\frac{3}{4}$	$25\frac{1}{2}$	$27\frac{3}{4}$
46	$14\frac{3}{4}$	16	$18\frac{3}{4}$	$20\frac{1}{2}$	$22\frac{3}{4}$	$24\frac{1}{4}$	$26\frac{1}{4}$	28
47	$15\frac{1}{4}$	17	19	21	22	$24\frac{3}{4}$	$26\frac{3}{4}$	$28\frac{5}{8}$
48	$15\frac{1}{2}$	$17\frac{1}{2}$	$19\frac{1}{2}$	$21\frac{3}{4}$	$23\frac{1}{2}$	$25\frac{1}{4}$	$27\frac{1}{4}$	$29\frac{1}{2}$
49	$15\frac{3}{4}$	17	19	$21\frac{7}{8}$	$23\frac{3}{4}$	$25\frac{3}{4}$	$27\frac{3}{4}$	$29\frac{3}{4}$
50	$16\frac{1}{4}$	$18\frac{1}{4}$	$20\frac{1}{4}$	$22\frac{1}{4}$	$24\frac{3}{8}$	$26\frac{3}{8}$	$28\frac{3}{4}$	$30\frac{3}{8}$

TABLE No. 1,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 16 yards of Cloth.

16 yards long of Cloth or 17 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.								
	32	34	36	38	40	42	44	46	48
30	19 $\frac{1}{8}$	20 $\frac{5}{8}$	21 $\frac{7}{8}$	23 $\frac{1}{8}$	24 $\frac{1}{4}$	25 $\frac{1}{2}$	26 $\frac{3}{8}$	27 $\frac{7}{8}$	29 $\frac{1}{8}$
31	20	21 $\frac{3}{8}$	22 $\frac{5}{8}$	23 $\frac{3}{4}$	25 $\frac{1}{2}$	26 $\frac{3}{8}$	27 $\frac{5}{8}$	28 $\frac{7}{8}$	30 $\frac{1}{8}$
32	20	22	23	24 $\frac{1}{4}$	25 $\frac{1}{2}$	27 $\frac{1}{4}$	28	29 $\frac{1}{2}$	31 $\frac{1}{8}$
33	21	22 $\frac{1}{2}$	24	25 $\frac{1}{2}$	26 $\frac{3}{4}$	28	29 $\frac{1}{2}$	30 $\frac{3}{4}$	32
34	22	23 $\frac{1}{2}$	24 $\frac{3}{4}$	26	27 $\frac{1}{2}$	28 $\frac{7}{8}$	30 $\frac{1}{4}$	31 $\frac{5}{8}$	33
35	22	24	25 $\frac{1}{2}$	26 $\frac{3}{8}$	28	29 $\frac{1}{2}$	31 $\frac{1}{4}$	32 $\frac{3}{8}$	34
36	23	24 $\frac{1}{2}$	26 $\frac{1}{4}$	27 $\frac{1}{2}$	29 $\frac{1}{2}$	30 $\frac{3}{4}$	32 $\frac{1}{2}$	33 $\frac{5}{8}$	34 $\frac{7}{8}$
37	23	25	26 $\frac{1}{2}$	28	29 $\frac{7}{8}$	31 $\frac{1}{2}$	32 $\frac{7}{8}$	34 $\frac{1}{2}$	35 $\frac{7}{8}$
38	24	26 $\frac{1}{2}$	27 $\frac{3}{4}$	29 $\frac{1}{4}$	30 $\frac{3}{4}$	32 $\frac{1}{2}$	33 $\frac{5}{8}$	35	36 $\frac{7}{8}$
39	25	26 $\frac{3}{4}$	28 $\frac{1}{2}$	29 $\frac{3}{4}$	31 $\frac{1}{2}$	33 $\frac{1}{4}$	34 $\frac{3}{4}$	36 $\frac{1}{2}$	37 $\frac{1}{2}$
40	25	27 $\frac{1}{2}$	29 $\frac{1}{2}$	30 $\frac{3}{4}$	32 $\frac{1}{2}$	34	35 $\frac{3}{4}$	37 $\frac{1}{4}$	38 $\frac{7}{8}$
41	26	28 $\frac{1}{4}$	29 $\frac{7}{8}$	31 $\frac{1}{2}$	33 $\frac{1}{4}$	34 $\frac{7}{8}$	36	38 $\frac{1}{4}$	39 $\frac{1}{2}$
42	27	28 $\frac{7}{8}$	30 $\frac{3}{4}$	32 $\frac{1}{2}$	34	35 $\frac{3}{4}$	37	39 $\frac{1}{2}$	40 $\frac{3}{4}$
43	27	21 $\frac{3}{4}$	31 $\frac{1}{2}$	33	34 $\frac{3}{4}$	36 $\frac{1}{2}$	38	40	41 $\frac{3}{4}$
44	28	30 $\frac{1}{4}$	32	33 $\frac{1}{2}$	35 $\frac{1}{4}$	37 $\frac{3}{8}$	39 $\frac{1}{4}$	41	42 $\frac{7}{8}$
45	29	31	32 $\frac{7}{8}$	34 $\frac{1}{2}$	36 $\frac{1}{2}$	38 $\frac{1}{4}$	40 $\frac{1}{8}$	41 $\frac{7}{8}$	43 $\frac{1}{2}$
46	29	31 $\frac{3}{8}$	33 $\frac{5}{8}$	35 $\frac{5}{8}$	37 $\frac{1}{4}$	39 $\frac{1}{8}$	41	42 $\frac{5}{8}$	44 $\frac{1}{2}$
47	30	32 $\frac{1}{2}$	34 $\frac{1}{4}$	36 $\frac{1}{4}$	38	40	41 $\frac{7}{8}$	43 $\frac{3}{4}$	45 $\frac{3}{4}$
48	31	33	35	37	38 $\frac{7}{8}$	40 $\frac{7}{8}$	42 $\frac{3}{4}$	44 $\frac{3}{4}$	46 $\frac{3}{4}$
49	31	33 $\frac{3}{4}$	35 $\frac{3}{4}$	37 $\frac{3}{4}$	39 $\frac{3}{4}$	41 $\frac{3}{4}$	43 $\frac{3}{4}$	45 $\frac{3}{4}$	47 $\frac{3}{4}$
50	32	34 $\frac{3}{8}$	36 $\frac{1}{2}$	38 $\frac{1}{2}$	40	42 $\frac{1}{2}$	44	46 $\frac{1}{2}$	48 $\frac{1}{2}$

TABLE No. 2,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 20 yards of Cloth.

20 yards long of Cloth or 21 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.								
	52	54	56	58	60	62	64	66	68
30	39	40 $\frac{1}{2}$	42	43 $\frac{1}{2}$	45	46 $\frac{1}{2}$	48	49 $\frac{1}{2}$	51
31	40 $\frac{3}{8}$	41 $\frac{7}{8}$	43 $\frac{3}{8}$	45	46 $\frac{1}{2}$	48	49 $\frac{5}{8}$	51 $\frac{1}{8}$	52 $\frac{3}{8}$
32	41 $\frac{5}{8}$	43 $\frac{1}{4}$	44 $\frac{7}{8}$	46 $\frac{3}{8}$	48	49 $\frac{5}{8}$	51 $\frac{1}{4}$	52 $\frac{3}{8}$	54 $\frac{1}{8}$
33	43	44 $\frac{5}{8}$	46 $\frac{1}{4}$	47 $\frac{7}{8}$	49 $\frac{1}{2}$	51 $\frac{1}{8}$	52 $\frac{1}{2}$	54 $\frac{1}{2}$	56 $\frac{1}{8}$
34	44 $\frac{1}{4}$	46	47 $\frac{3}{4}$	49 $\frac{1}{4}$	51	52 $\frac{3}{4}$	54 $\frac{5}{8}$	56 $\frac{1}{2}$	57 $\frac{7}{8}$
35	45	47 $\frac{1}{4}$	49	50 $\frac{3}{4}$	52 $\frac{1}{2}$	54 $\frac{1}{4}$	56	57 $\frac{3}{4}$	59 $\frac{1}{2}$
36	46	48 $\frac{1}{4}$	50	52 $\frac{1}{4}$	54	55 $\frac{1}{4}$	57 $\frac{5}{8}$	59	61 $\frac{1}{4}$
37	48	50	51 $\frac{7}{8}$	53 $\frac{1}{4}$	55 $\frac{1}{2}$	57	59 $\frac{1}{4}$	61	63
38	49	51 $\frac{3}{8}$	53 $\frac{1}{4}$	55 $\frac{1}{8}$	57	59	60 $\frac{7}{8}$	62	64 $\frac{5}{8}$
39	50	52 $\frac{1}{4}$	54 $\frac{5}{8}$	56 $\frac{1}{2}$	58 $\frac{1}{2}$	60 $\frac{1}{2}$	62 $\frac{3}{8}$	64 $\frac{3}{8}$	66 $\frac{3}{8}$
40	52	54	56	58	60	62	64	66	68
41	53 $\frac{3}{8}$	55 $\frac{3}{8}$	57 $\frac{3}{8}$	59 $\frac{1}{2}$	61 $\frac{1}{2}$	63 $\frac{1}{2}$	65 $\frac{5}{8}$	67 $\frac{5}{8}$	69 $\frac{3}{8}$
42	54 $\frac{5}{8}$	56 $\frac{3}{4}$	58 $\frac{7}{8}$	60 $\frac{7}{8}$	63	65 $\frac{1}{2}$	67 $\frac{1}{4}$	69 $\frac{3}{8}$	71 $\frac{1}{4}$
43	56	58	60 $\frac{1}{4}$	62 $\frac{1}{2}$	64 $\frac{1}{2}$	66	68	71	73
44	57 $\frac{1}{4}$	59	61 $\frac{1}{2}$	63	66	68	69 $\frac{5}{8}$	72 $\frac{5}{8}$	74 $\frac{7}{8}$
45	58	60 $\frac{1}{2}$	63	65 $\frac{1}{4}$	67 $\frac{1}{2}$	69	72	74 $\frac{1}{4}$	76
46	59	62	64 $\frac{1}{2}$	66 $\frac{3}{4}$	69	71	73 $\frac{5}{8}$	76	78 $\frac{1}{4}$
47	61	63	65 $\frac{1}{2}$	68	70 $\frac{1}{2}$	72	75 $\frac{1}{4}$	77 $\frac{1}{2}$	80
48	62	64	67 $\frac{1}{4}$	69 $\frac{1}{2}$	72	74	76	79 $\frac{1}{4}$	81 $\frac{5}{8}$
49	63	66	68 $\frac{3}{8}$	71 $\frac{1}{8}$	73 $\frac{1}{2}$	76	78	80 $\frac{3}{4}$	83 $\frac{3}{8}$
50	65	67 $\frac{1}{2}$	70	72 $\frac{1}{2}$	75	77 $\frac{1}{2}$	80	82 $\frac{1}{2}$	85

TABLE No. 2,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 20 yards of Cloth.

20 yards long of Cloth or 21 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.							
	70	72	74	76	78	80	82	84
30	52 $\frac{1}{2}$	54	55 $\frac{1}{2}$	57	58 $\frac{1}{2}$	60	61 $\frac{1}{2}$	63
31	54 $\frac{1}{4}$	55 $\frac{7}{8}$	57 $\frac{3}{8}$	59	60 $\frac{1}{2}$	62	63 $\frac{1}{2}$	65 $\frac{1}{8}$
32	56	57 $\frac{5}{8}$	59 $\frac{1}{4}$	60 $\frac{7}{8}$	62 $\frac{3}{8}$	64	65 $\frac{5}{8}$	67 $\frac{1}{4}$
33	57 $\frac{3}{4}$	59 $\frac{3}{8}$	61 $\frac{1}{8}$	62 $\frac{1}{2}$	64 $\frac{1}{2}$	66	67 $\frac{3}{8}$	69 $\frac{3}{8}$
34	59 $\frac{1}{2}$	61 $\frac{1}{4}$	63	64 $\frac{1}{2}$	66 $\frac{1}{4}$	68	69 $\frac{1}{4}$	71 $\frac{3}{8}$
35	61 $\frac{1}{4}$	63	64 $\frac{3}{4}$	66	68 $\frac{1}{4}$	70	71 $\frac{1}{4}$	73
36	63	64 $\frac{7}{8}$	66 $\frac{1}{2}$	68	70 $\frac{1}{4}$	72	73 $\frac{1}{4}$	75 $\frac{1}{2}$
37	64 $\frac{3}{4}$	66 $\frac{5}{8}$	68 $\frac{1}{2}$	70 $\frac{3}{8}$	72 $\frac{1}{2}$	74	75 $\frac{3}{8}$	77 $\frac{1}{4}$
38	66 $\frac{1}{2}$	68 $\frac{3}{8}$	70 $\frac{3}{8}$	72 $\frac{1}{4}$	74 $\frac{1}{8}$	76	77 $\frac{7}{8}$	79 $\frac{7}{8}$
39	68 $\frac{1}{4}$	70 $\frac{1}{4}$	72 $\frac{1}{8}$	74 $\frac{1}{8}$	76	78	80	82
40	70	72	74	76	78	80	82	84
41	71 $\frac{3}{4}$	73 $\frac{7}{8}$	75 $\frac{7}{8}$	78	80	82	84	86 $\frac{1}{8}$
42	73 $\frac{1}{2}$	75 $\frac{5}{8}$	77 $\frac{3}{4}$	79 $\frac{7}{8}$	82	84	86 $\frac{1}{8}$	88 $\frac{1}{4}$
43	75 $\frac{1}{4}$	77 $\frac{5}{8}$	79 $\frac{3}{4}$	81 $\frac{3}{8}$	83 $\frac{7}{8}$	86	88 $\frac{1}{8}$	90 $\frac{3}{8}$
44	77	79 $\frac{1}{4}$	81 $\frac{3}{8}$	83 $\frac{5}{8}$	85 $\frac{7}{8}$	88	90 $\frac{1}{4}$	92 $\frac{3}{8}$
45	78 $\frac{3}{4}$	81	83 $\frac{1}{4}$	85 $\frac{1}{2}$	87 $\frac{3}{4}$	90	92 $\frac{1}{4}$	94 $\frac{3}{8}$
46	80 $\frac{1}{2}$	82 $\frac{7}{8}$	85 $\frac{1}{8}$	87 $\frac{3}{8}$	89 $\frac{3}{4}$	92	94 $\frac{1}{4}$	96 $\frac{3}{8}$
47	82 $\frac{1}{4}$	84 $\frac{5}{8}$	87	89 $\frac{5}{8}$	91 $\frac{5}{8}$	94	96 $\frac{3}{8}$	98 $\frac{1}{4}$
48	84	86 $\frac{3}{8}$	88 $\frac{7}{8}$	91 $\frac{1}{4}$	93 $\frac{5}{8}$	96	98 $\frac{3}{8}$	100 $\frac{1}{8}$
49	85 $\frac{3}{4}$	88 $\frac{1}{8}$	90 $\frac{5}{8}$	93 $\frac{1}{8}$	95 $\frac{1}{2}$	98	100 $\frac{1}{2}$	103
50	87 $\frac{1}{2}$	90	92 $\frac{1}{2}$	95	97 $\frac{1}{2}$	100	102 $\frac{1}{2}$	105

TABLE No. 3.

Giving the number of Hanks, Twist or Weft in 29 yards of Cloth.

29 yards long of Cloth or $30\frac{1}{2}$ yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	40	42	44	46	48	50	52
26	$37\frac{3}{4}$	$39\frac{3}{4}$	$41\frac{1}{2}$	$43\frac{3}{8}$	$45\frac{1}{4}$	$47\frac{1}{4}$	$49\frac{1}{8}$
27	$39\frac{1}{4}$	$41\frac{1}{8}$	$43\frac{1}{8}$	$45\frac{1}{8}$	$47\frac{1}{8}$	49	51
28	$40\frac{5}{8}$	$42\frac{3}{4}$	$44\frac{3}{4}$	$46\frac{3}{4}$	$48\frac{3}{4}$	$50\frac{7}{8}$	$52\frac{7}{8}$
29	$42\frac{1}{8}$	$44\frac{1}{4}$	$46\frac{3}{8}$	$48\frac{3}{8}$	$50\frac{1}{2}$	$52\frac{5}{8}$	$54\frac{3}{4}$
30	$43\frac{5}{8}$	$45\frac{3}{4}$	48	$50\frac{1}{8}$	$52\frac{1}{4}$	$54\frac{1}{2}$	$56\frac{5}{8}$
31	45	$47\frac{1}{4}$	$49\frac{1}{2}$	$51\frac{3}{4}$	54	$56\frac{3}{8}$	$58\frac{1}{2}$
32	$46\frac{1}{2}$	$48\frac{7}{8}$	$51\frac{1}{8}$	$53\frac{1}{2}$	$55\frac{3}{4}$	$58\frac{1}{8}$	$60\frac{3}{8}$
33	48	$50\frac{1}{4}$	$52\frac{3}{4}$	55	$57\frac{1}{2}$	$59\frac{7}{8}$	$62\frac{1}{4}$
34	$49\frac{3}{8}$	$51\frac{7}{8}$	$54\frac{3}{8}$	$56\frac{7}{8}$	$59\frac{1}{4}$	$61\frac{3}{4}$	$64\frac{1}{8}$
35	$50\frac{7}{8}$	$53\frac{3}{8}$	$55\frac{7}{8}$	$58\frac{3}{8}$	61	$63\frac{1}{2}$	66
36	$52\frac{1}{4}$	55	$57\frac{1}{2}$	$60\frac{1}{8}$	$62\frac{5}{8}$	$65\frac{3}{8}$	68
37	$53\frac{3}{4}$	$56\frac{1}{2}$	59	$61\frac{7}{8}$	$64\frac{1}{2}$	$67\frac{1}{8}$	$69\frac{7}{8}$
38	$55\frac{1}{4}$	58	$60\frac{5}{8}$	$63\frac{1}{2}$	$66\frac{1}{4}$	69	$71\frac{3}{4}$
39	$56\frac{5}{8}$	$59\frac{1}{2}$	$62\frac{1}{4}$	$65\frac{1}{8}$	68	$70\frac{7}{8}$	$73\frac{5}{8}$
40	$58\frac{1}{8}$	61	64	$66\frac{3}{8}$	$69\frac{5}{8}$	$72\frac{5}{8}$	$75\frac{1}{2}$

TABLE No. 3,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 29 yards of Cloth.

29 yards long of Cloth or $30\frac{1}{2}$ yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	54	56	58	60	62	64	66
26	51	$52\frac{7}{8}$	$54\frac{3}{4}$	$56\frac{5}{8}$	$58\frac{1}{2}$	$60\frac{3}{8}$	$62\frac{3}{8}$
27	$52\frac{7}{8}$	$54\frac{7}{8}$	$56\frac{7}{8}$	$58\frac{3}{4}$	$60\frac{3}{4}$	$62\frac{3}{4}$	$64\frac{5}{8}$
28	$54\frac{7}{8}$	57	59	61	63	65	67
29	$56\frac{7}{8}$	59	61	$63\frac{1}{8}$	$65\frac{1}{4}$	$67\frac{3}{8}$	$69\frac{1}{2}$
30	$58\frac{3}{4}$	61	$63\frac{1}{8}$	$65\frac{3}{8}$	$67\frac{5}{8}$	$69\frac{3}{4}$	$71\frac{7}{8}$
31	$60\frac{5}{8}$	63	$65\frac{1}{4}$	$67\frac{1}{2}$	$69\frac{3}{4}$	72	$74\frac{3}{8}$
32	$62\frac{5}{8}$	65	$67\frac{3}{8}$	$69\frac{5}{8}$	72	$74\frac{3}{8}$	$76\frac{5}{8}$
33	$64\frac{5}{8}$	67	$69\frac{1}{2}$	$71\frac{7}{8}$	$74\frac{1}{4}$	$76\frac{3}{4}$	79
34	$66\frac{5}{8}$	$69\frac{1}{8}$	$71\frac{5}{8}$	74	$76\frac{1}{2}$	79	$81\frac{1}{2}$
35	$68\frac{5}{8}$	$71\frac{1}{8}$	$73\frac{3}{4}$	$76\frac{1}{4}$	$78\frac{7}{8}$	$81\frac{3}{8}$	$83\frac{7}{8}$
36	$70\frac{5}{8}$	$73\frac{1}{8}$	$75\frac{3}{4}$	$78\frac{1}{2}$	81	$83\frac{3}{4}$	$86\frac{1}{4}$
37	$72\frac{5}{8}$	$75\frac{1}{8}$	$77\frac{7}{8}$	81	$83\frac{1}{8}$	86	$88\frac{3}{4}$
38	$74\frac{1}{2}$	$77\frac{1}{4}$	80	$82\frac{3}{4}$	$85\frac{1}{2}$	$88\frac{3}{8}$	91
39	$76\frac{1}{2}$	$79\frac{1}{4}$	$82\frac{1}{8}$	85	$87\frac{3}{4}$	$90\frac{5}{8}$	$93\frac{1}{2}$
40	$78\frac{1}{2}$	$81\frac{1}{4}$	$84\frac{1}{4}$	$87\frac{1}{8}$	90	93	$95\frac{5}{8}$

TABLE No. 4.

Giving the number of Hanks, Twist or Weft in $37\frac{1}{2}$ yards of Cloth.

$37\frac{1}{2}$ yards long of Cloth or 41 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	40	42	44	46	48	50	52
38	$74\frac{1}{8}$	78	$81\frac{1}{2}$	$85\frac{1}{4}$	$89\frac{1}{8}$	$92\frac{5}{8}$	$96\frac{1}{2}$
39	$76\frac{1}{8}$	80	$83\frac{7}{8}$	$87\frac{1}{2}$	$91\frac{3}{8}$	$95\frac{1}{4}$	$99\frac{1}{8}$
40	$78\frac{1}{8}$	82	$85\frac{7}{8}$	$89\frac{3}{4}$	$93\frac{3}{4}$	$97\frac{5}{8}$	$101\frac{1}{2}$
41	$80\frac{1}{8}$	84	$88\frac{1}{8}$	$92\frac{1}{8}$	$96\frac{1}{8}$	$100\frac{1}{8}$	$104\frac{1}{8}$
42	82	$86\frac{1}{8}$	$90\frac{1}{4}$	$94\frac{3}{8}$	$98\frac{3}{8}$	$102\frac{1}{2}$	$106\frac{5}{8}$
43	$83\frac{7}{8}$	$88\frac{1}{8}$	$92\frac{1}{4}$	$96\frac{5}{8}$	$100\frac{3}{4}$	$104\frac{7}{8}$	$109\frac{1}{4}$
44	86	$90\frac{1}{8}$	$94\frac{1}{2}$	$98\frac{7}{8}$	$103\frac{1}{8}$	$107\frac{3}{8}$	$111\frac{5}{8}$
45	$87\frac{7}{8}$	$92\frac{1}{4}$	$96\frac{5}{8}$	101	$105\frac{3}{8}$	$109\frac{3}{4}$	$114\frac{1}{4}$
46	$89\frac{3}{4}$	$94\frac{3}{8}$	$98\frac{3}{4}$	$103\frac{3}{8}$	$107\frac{7}{8}$	$112\frac{1}{4}$	$116\frac{3}{4}$
47	$91\frac{3}{4}$	$96\frac{3}{8}$	$100\frac{7}{8}$	$105\frac{5}{8}$	$110\frac{1}{8}$	$114\frac{3}{4}$	$119\frac{3}{8}$
48	$93\frac{3}{4}$	$98\frac{3}{8}$	$103\frac{1}{8}$	$107\frac{3}{4}$	$112\frac{1}{2}$	$117\frac{1}{8}$	$121\frac{7}{8}$

TABLE No. 4,—CONTINUED.

Giving the number of Hanks, Twist or Weft in $37\frac{1}{2}$ yards of Cloth.

$37\frac{1}{2}$ yards long of Cloth or 41 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	54	56	58	60	62	64	66
38	$100\frac{3}{8}$	$103\frac{7}{8}$	$107\frac{1}{2}$	$111\frac{1}{4}$	$115\frac{1}{8}$	$118\frac{3}{4}$	$122\frac{3}{8}$
39	$102\frac{7}{8}$	$106\frac{3}{4}$	$110\frac{1}{4}$	$114\frac{1}{4}$	$118\frac{1}{8}$	$121\frac{7}{8}$	$125\frac{3}{4}$
40	$105\frac{1}{2}$	$109\frac{3}{8}$	$113\frac{1}{4}$	$117\frac{1}{8}$	$121\frac{1}{8}$	125	$128\frac{7}{8}$
41	$108\frac{1}{8}$	$112\frac{1}{8}$	$116\frac{1}{4}$	$120\frac{1}{8}$	$124\frac{1}{4}$	$128\frac{1}{8}$	$132\frac{1}{8}$
42	$110\frac{5}{8}$	$114\frac{3}{4}$	$118\frac{7}{8}$	123	$127\frac{1}{8}$	$131\frac{1}{4}$	$135\frac{3}{8}$
43	$113\frac{1}{2}$	$117\frac{1}{2}$	$121\frac{3}{4}$	126	$130\frac{1}{8}$	$134\frac{1}{4}$	$138\frac{5}{8}$
44	116	$120\frac{1}{4}$	$124\frac{1}{2}$	$128\frac{7}{8}$	133	$137\frac{1}{2}$	$141\frac{3}{4}$
45	$118\frac{5}{8}$	123	$127\frac{3}{8}$	$131\frac{7}{8}$	$136\frac{1}{8}$	$140\frac{5}{8}$	145
46	$121\frac{1}{4}$	$125\frac{3}{4}$	$130\frac{1}{8}$	$134\frac{3}{4}$	$139\frac{3}{8}$	$143\frac{3}{8}$	$148\frac{1}{4}$
47	124	$128\frac{1}{2}$	$133\frac{1}{8}$	$137\frac{5}{8}$	$142\frac{1}{8}$	$146\frac{3}{4}$	$151\frac{3}{8}$
48	$126\frac{1}{2}$	$131\frac{1}{4}$	136	$140\frac{5}{8}$	$145\frac{1}{4}$	$149\frac{7}{8}$	$154\frac{3}{4}$

TABLE No. 4,—CONTINUED.

Giving the number of Hanks, Twist or Weft in $37\frac{1}{2}$ yards of Cloth.

$37\frac{1}{2}$ yards long of Cloth or 41 yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	68	70	72	74	76	78	80
38	$126\frac{1}{8}$	$129\frac{7}{8}$	$133\frac{5}{8}$	$137\frac{3}{8}$	141	$144\frac{3}{4}$	$148\frac{3}{8}$
39	$129\frac{1}{2}$	$133\frac{1}{4}$	$137\frac{1}{8}$	$140\frac{7}{8}$	$144\frac{3}{4}$	$148\frac{5}{8}$	$152\frac{3}{8}$
40	$132\frac{3}{4}$	$136\frac{3}{4}$	$140\frac{5}{8}$	$144\frac{1}{2}$	$148\frac{3}{8}$	$152\frac{1}{4}$	$156\frac{1}{4}$
41	$136\frac{1}{8}$	$140\frac{1}{8}$	144	148	$152\frac{1}{8}$	$156\frac{1}{8}$	$160\frac{1}{8}$
42	$139\frac{1}{2}$	$143\frac{1}{2}$	$147\frac{5}{8}$	$151\frac{3}{4}$	$155\frac{3}{4}$	$159\frac{7}{8}$	164
43	$142\frac{3}{4}$	$146\frac{7}{8}$	$151\frac{1}{8}$	$155\frac{1}{4}$	$159\frac{1}{2}$	$163\frac{5}{8}$	$167\frac{7}{8}$
44	$146\frac{1}{8}$	$150\frac{3}{8}$	$154\frac{3}{4}$	$158\frac{7}{8}$	$163\frac{1}{4}$	$167\frac{1}{2}$	$171\frac{7}{8}$
45	$149\frac{3}{8}$	$153\frac{3}{4}$	$158\frac{1}{8}$	$162\frac{1}{2}$	167	$171\frac{3}{8}$	$175\frac{3}{4}$
46	$152\frac{3}{4}$	$157\frac{1}{8}$	$161\frac{5}{8}$	$166\frac{1}{4}$	$170\frac{3}{4}$	$175\frac{1}{4}$	$179\frac{5}{8}$
47	$156\frac{1}{8}$	$160\frac{5}{8}$	$165\frac{1}{4}$	$169\frac{3}{4}$	$174\frac{1}{2}$	$178\frac{7}{8}$	$183\frac{1}{2}$
48	$159\frac{1}{2}$	164	$168\frac{3}{4}$	$173\frac{1}{2}$	$178\frac{1}{8}$	$182\frac{3}{4}$	$187\frac{1}{2}$

TABLE No. 5.

**GIVING THE NUMBER OF HANKS, TWIST OR WEFT
IN 46 YARDS OF CLOTH.**

TABLE No. 5.

Giving the number of Hanks, Twist or Weft in 46 yards of Cloth.

46 yards long of Cloth or $48\frac{1}{2}$ yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	40	42	44	46	48	50	52
30	$69\frac{1}{4}$	$72\frac{3}{4}$	$76\frac{1}{8}$	$79\frac{5}{8}$	$83\frac{1}{8}$	$86\frac{5}{8}$	$90\frac{1}{8}$
31	$71\frac{1}{2}$	$75\frac{1}{8}$	$78\frac{3}{4}$	$82\frac{1}{4}$	$85\frac{7}{8}$	$89\frac{1}{2}$	$93\frac{1}{8}$
32	$73\frac{7}{8}$	$77\frac{5}{8}$	$81\frac{1}{4}$	85	$88\frac{5}{8}$	$92\frac{3}{8}$	$96\frac{1}{8}$
33	$76\frac{1}{4}$	80	$83\frac{7}{8}$	$87\frac{5}{8}$	$91\frac{1}{2}$	$95\frac{1}{4}$	$99\frac{1}{8}$
34	$78\frac{5}{8}$	$82\frac{1}{2}$	$86\frac{3}{8}$	$90\frac{1}{4}$	$94\frac{1}{4}$	$98\frac{1}{8}$	$102\frac{1}{8}$
35	$80\frac{3}{4}$	$84\frac{3}{4}$	$88\frac{7}{8}$	$92\frac{7}{8}$	97	101	$105\frac{1}{8}$
36	$83\frac{1}{8}$	$87\frac{3}{8}$	$91\frac{3}{8}$	$95\frac{5}{8}$	$99\frac{3}{4}$	$103\frac{7}{8}$	$108\frac{1}{8}$

TABLE No. 5,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 46 yards of Cloth.

46 yards long of Cloth or $48\frac{1}{2}$ yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	54	56	58	60	62	64	66
30	$93\frac{1}{2}$	97	$100\frac{3}{8}$	$103\frac{7}{8}$	$107\frac{3}{8}$	$110\frac{7}{8}$	$114\frac{1}{4}$
31	$96\frac{5}{8}$	$100\frac{1}{4}$	$103\frac{3}{4}$	$107\frac{3}{8}$	$110\frac{7}{8}$	$114\frac{1}{2}$	$118\frac{1}{8}$
32	$99\frac{3}{4}$	$103\frac{5}{8}$	$107\frac{1}{4}$	$110\frac{7}{8}$	$114\frac{1}{2}$	$118\frac{1}{4}$	$121\frac{7}{8}$
33	$102\frac{7}{8}$	$106\frac{7}{8}$	$110\frac{3}{8}$	$114\frac{3}{8}$	$118\frac{1}{8}$	$121\frac{7}{8}$	$125\frac{3}{4}$
34	106	$109\frac{7}{8}$	$113\frac{7}{8}$	$117\frac{3}{4}$	$121\frac{5}{8}$	$125\frac{5}{8}$	$129\frac{5}{8}$
35	$109\frac{1}{8}$	$113\frac{1}{8}$	$117\frac{1}{8}$	$121\frac{1}{4}$	$125\frac{3}{4}$	$129\frac{3}{8}$	$133\frac{1}{2}$
36	$112\frac{1}{4}$	$116\frac{1}{2}$	$120\frac{1}{2}$	125	$128\frac{7}{8}$	133	$137\frac{1}{8}$

TABLE No. 5,—CONTINUED.

Giving the number of Hanks, Twist or Weft in 46 yards of Cloth.

46 yards long of Cloth or $48\frac{1}{2}$ yards of Yarn.

Inches wide in Reed.	Threads in one inch either on the Reed or in the Weft.						
	68	70	72	74	76	78	80
30	$117\frac{3}{4}$	$121\frac{1}{4}$	$124\frac{3}{4}$	$128\frac{1}{8}$	$131\frac{5}{8}$	$135\frac{1}{8}$	$138\frac{5}{8}$
31	$121\frac{3}{4}$	$125\frac{1}{4}$	$128\frac{7}{8}$	$132\frac{3}{8}$	136	$139\frac{5}{8}$	$143\frac{1}{4}$
32	$125\frac{5}{8}$	$129\frac{3}{8}$	133	$136\frac{3}{4}$	$140\frac{3}{8}$	$144\frac{1}{8}$	$147\frac{7}{8}$
33	$129\frac{5}{8}$	$133\frac{3}{8}$	$137\frac{1}{4}$	141	$144\frac{7}{8}$	$148\frac{5}{8}$	$152\frac{3}{8}$
34	$133\frac{1}{8}$	$137\frac{1}{2}$	$141\frac{3}{8}$	$145\frac{1}{4}$	$149\frac{3}{8}$	$153\frac{1}{8}$	157
35	$137\frac{1}{2}$	$141\frac{1}{2}$	$145\frac{1}{2}$	$149\frac{5}{8}$	$153\frac{5}{8}$	$157\frac{5}{8}$	$161\frac{5}{8}$
36	$141\frac{3}{8}$	$145\frac{1}{2}$	$149\frac{5}{8}$	$153\frac{7}{8}$	158	$162\frac{1}{8}$	$166\frac{3}{8}$

TABLE No. 6.

**GIVING THE WEIGHT OF ANY NUMBER OF HANKS,
FROM 18 TO 400, OF ANY GIVEN NUMBER OF YARN,**

FROM

SIXTEENS TO ONE HUNDRED AND TENS.

Giving the Weight of any number of Hanks, from 18 to 72, of any given numbers of Yarn.

No. of Hanks	Nos. of Yarn.											
	16		18		20		22		24		26	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.
18	1	2	1	0	0	14 $\frac{3}{8}$	0	13 $\frac{1}{8}$	0	12	0	11 $\frac{1}{2}$
20	1	4	1	17 $\frac{7}{8}$	1	0	0	14 $\frac{1}{2}$	0	13 $\frac{3}{8}$	0	12 $\frac{1}{2}$
22	1	6	1	3 $\frac{3}{8}$	1	11 $\frac{1}{2}$	1	0	0	14 $\frac{1}{4}$	0	13 $\frac{1}{2}$
24	1	8	1	5 $\frac{3}{8}$	1	3 $\frac{1}{4}$	1	1 $\frac{1}{2}$	1	0	0	14 $\frac{1}{4}$
26	1	10	1	7	1	4 $\frac{3}{4}$	1	3	1	1 $\frac{1}{2}$	1	0
28	1	12	1	9	1	6 $\frac{1}{2}$	1	4 $\frac{1}{2}$	1	2 $\frac{1}{4}$	1	1 $\frac{1}{2}$
30	1	14	1	10 $\frac{3}{4}$	1	8	1	5 $\frac{1}{8}$	1	4	1	2 $\frac{1}{2}$
32	2	0	1	12 $\frac{1}{2}$	1	9 $\frac{5}{8}$	1	7 $\frac{1}{4}$	1	5 $\frac{1}{2}$	1	3 $\frac{1}{4}$
34	2	2	1	14 $\frac{1}{4}$	1	11 $\frac{1}{4}$	1	8 $\frac{3}{4}$	1	6 $\frac{1}{8}$	1	5
36	2	4	2	0	1	12 $\frac{3}{4}$	1	10 $\frac{1}{4}$	1	8	1	6 $\frac{1}{4}$
38	2	6	2	17 $\frac{5}{8}$	1	14 $\frac{1}{2}$	1	11 $\frac{1}{8}$	1	9 $\frac{1}{2}$	1	7 $\frac{1}{2}$
40	2	8	2	3 $\frac{1}{2}$	2	0	1	13	1	10 $\frac{1}{4}$	1	8
42	2	10	2	5 $\frac{1}{2}$	2	11 $\frac{1}{2}$	1	14 $\frac{1}{2}$	1	12	1	9
44	2	12	2	7 $\frac{1}{8}$	2	3 $\frac{1}{4}$	2	0	1	13 $\frac{1}{8}$	1	11
46	2	14	2	9	2	4 $\frac{3}{4}$	2	1 $\frac{1}{2}$	1	14 $\frac{1}{8}$	1	12 $\frac{1}{2}$
48	3	0	2	10 $\frac{3}{4}$	2	6 $\frac{1}{2}$	2	3	2	0	1	13
50	3	2	2	12 $\frac{1}{2}$	2	8	2	4 $\frac{1}{8}$	2	1 $\frac{1}{2}$	1	14 $\frac{1}{4}$
52	3	4	2	14 $\frac{1}{4}$	2	9 $\frac{5}{8}$	2	5 $\frac{1}{8}$	2	2 $\frac{1}{4}$	2	0
54	3	6	3	0	2	11 $\frac{1}{4}$	2	7 $\frac{1}{4}$	2	4	2	1 $\frac{1}{2}$
56	3	8	3	1 $\frac{3}{4}$	2	12 $\frac{1}{4}$	2	8 $\frac{1}{4}$	2	5 $\frac{1}{2}$	2	2 $\frac{1}{2}$
58	3	10	3	3 $\frac{1}{2}$	2	14 $\frac{1}{8}$	2	10 $\frac{1}{4}$	2	6 $\frac{1}{4}$	2	3 $\frac{1}{2}$
60	3	12	3	5 $\frac{1}{2}$	3	0	2	11 $\frac{1}{8}$	2	8	2	5
62	3	14	3	7 $\frac{1}{2}$	3	1 $\frac{5}{8}$	2	13	2	9 $\frac{1}{2}$	2	6 $\frac{1}{2}$
64	4	0	3	9	3	3 $\frac{1}{4}$	2	14 $\frac{5}{8}$	2	10 $\frac{1}{4}$	2	7 $\frac{1}{2}$
66	4	2	3	10 $\frac{3}{4}$	3	4 $\frac{3}{4}$	3	0	2	12	2	8 $\frac{1}{2}$
68	4	4	3	12 $\frac{1}{2}$	3	6 $\frac{1}{2}$	3	1 $\frac{1}{2}$	2	13 $\frac{1}{2}$	2	9 $\frac{1}{2}$
70	4	6	3	14 $\frac{1}{4}$	3	8	3	3	2	14 $\frac{1}{4}$	2	11
72	4	8	4	0	3	9 $\frac{5}{8}$	3	4 $\frac{3}{8}$	3	0	2	12 $\frac{3}{8}$

TABLE No. 6,—CONTINUED. 27

Giving the Weight of any number of Hanks, from 18 to 72, of any given number of Yarn.

Nos. of Yarn.

No. of Hanks	28		30		32		34		36		38	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.
18	0	10 $\frac{1}{4}$	0	9 $\frac{3}{8}$	0	9	0	8 $\frac{1}{2}$	0	8	0	7 $\frac{1}{2}$
20	0	11 $\frac{1}{2}$	0	10 $\frac{1}{2}$	0	10	0	9 $\frac{1}{2}$	0	9	0	8 $\frac{1}{2}$
22	0	12 $\frac{3}{8}$	0	11 $\frac{1}{4}$	0	11	0	10 $\frac{1}{4}$	0	9 $\frac{7}{8}$	0	9 $\frac{3}{8}$
24	0	14	0	12 $\frac{7}{8}$	0	12	0	11 $\frac{3}{4}$	0	10 $\frac{1}{2}$	0	10
26	0	14 $\frac{3}{4}$	0	13 $\frac{1}{8}$	0	13	0	12 $\frac{1}{4}$	0	11 $\frac{1}{2}$	0	11
28	1	0	0	15	0	14	0	13 $\frac{1}{2}$	0	12 $\frac{1}{2}$	0	11 $\frac{1}{2}$
30	1	1	1	0	0	15	0	14 $\frac{1}{2}$	0	13 $\frac{1}{2}$	0	12 $\frac{1}{2}$
32	1	2 $\frac{1}{4}$	1	1	1	0	0	15	0	14 $\frac{1}{4}$	0	13 $\frac{1}{4}$
34	1	3 $\frac{1}{2}$	1	2 $\frac{1}{8}$	1	1	1	0	0	15 $\frac{1}{8}$	0	14 $\frac{1}{8}$
36	1	4 $\frac{1}{2}$	1	3 $\frac{1}{4}$	1	2	1	1	1	0	0	15 $\frac{1}{4}$
38	1	5 $\frac{3}{4}$	1	4 $\frac{1}{4}$	1	3	1	2 $\frac{1}{4}$	1	1	1	0
40	1	6 $\frac{7}{8}$	1	5 $\frac{3}{8}$	1	4	1	2 $\frac{3}{4}$	1	1 $\frac{7}{8}$	1	1
42	1	8	1	6 $\frac{3}{4}$	1	5	1	3 $\frac{1}{4}$	1	2 $\frac{3}{4}$	1	1 $\frac{3}{4}$
44	1	9 $\frac{1}{8}$	1	7 $\frac{1}{2}$	1	6	1	4 $\frac{1}{4}$	1	3 $\frac{1}{4}$	1	2 $\frac{3}{4}$
46	1	10 $\frac{1}{4}$	1	8 $\frac{1}{2}$	1	7	1	5 $\frac{1}{4}$	1	4 $\frac{1}{2}$	1	3 $\frac{3}{4}$
48	1	11 $\frac{1}{2}$	1	9 $\frac{1}{2}$	1	8	1	6 $\frac{1}{4}$	1	5 $\frac{1}{2}$	1	4 $\frac{1}{4}$
50	1	12 $\frac{1}{2}$	1	10 $\frac{3}{4}$	1	9	1	7 $\frac{1}{2}$	1	6 $\frac{1}{4}$	1	5
52	1	14	1	11 $\frac{3}{4}$	1	10	1	8 $\frac{1}{2}$	1	7	1	6
54	1	15	1	12 $\frac{3}{4}$	1	11	1	9 $\frac{1}{2}$	1	8	1	6 $\frac{3}{4}$
56	2	0	1	13 $\frac{7}{8}$	1	12	1	10 $\frac{1}{2}$	1	9	1	7 $\frac{3}{4}$
58	2	1 $\frac{1}{8}$	1	15	1	13	1	11 $\frac{1}{2}$	1	9 $\frac{1}{2}$	1	8
60	2	2 $\frac{1}{4}$	2	0	1	14	1	12 $\frac{1}{4}$	1	10 $\frac{3}{4}$	1	9 $\frac{1}{4}$
62	2	3 $\frac{3}{8}$	2	1	1	15	1	13 $\frac{1}{4}$	1	11 $\frac{3}{4}$	1	10 $\frac{1}{8}$
64	2	4 $\frac{1}{2}$	2	2 $\frac{1}{8}$	2	0	1	14 $\frac{1}{2}$	1	12 $\frac{1}{2}$	1	11
66	2	5 $\frac{3}{4}$	2	3 $\frac{1}{4}$	2	1	1	15	1	13 $\frac{3}{8}$	1	11 $\frac{3}{4}$
68	2	6 $\frac{7}{8}$	2	4 $\frac{1}{4}$	2	2	2	0	1	14 $\frac{1}{4}$	1	12 $\frac{1}{8}$
70	2	8	2	5 $\frac{3}{8}$	2	3	2	1	1	15 $\frac{1}{8}$	1	13 $\frac{1}{2}$
72	2	9 $\frac{1}{8}$	2	6 $\frac{3}{8}$	2	4	2	2	2	0	1	14 $\frac{3}{8}$

28 TABLE No. 6,—CONTINUED.

Giving the Weight of any number of Hanks, from 18 to 72, of any given number of Yarn.

		Nos. of Yarn.											
No. of Hanks	40		42		44		46		48		50		
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	
18	0	7 $\frac{1}{4}$	0	6 $\frac{7}{8}$	0	6 $\frac{1}{2}$	0	6 $\frac{1}{4}$	0	6	0	5 $\frac{3}{4}$	
20	0	8	0	7 $\frac{1}{2}$	0	7 $\frac{1}{4}$	0	7	0	6 $\frac{3}{4}$	0	6 $\frac{1}{2}$	
22	0	8 $\frac{7}{8}$	0	8 $\frac{1}{2}$	0	8	0	7 $\frac{3}{4}$	0	7 $\frac{1}{4}$	0	7	
24	0	9 $\frac{1}{4}$	0	9 $\frac{1}{8}$	0	8 $\frac{3}{4}$	0	8 $\frac{1}{8}$	0	8	0	7 $\frac{3}{4}$	
26	0	10 $\frac{1}{8}$	0	10	0	9 $\frac{1}{2}$	0	9	0	8 $\frac{5}{8}$	0	8 $\frac{3}{8}$	
28	0	11 $\frac{1}{4}$	0	10 $\frac{3}{4}$	0	10 $\frac{1}{8}$	0	9 $\frac{3}{4}$	0	9 $\frac{1}{8}$	0	9	
30	0	12	0	11 $\frac{1}{2}$	0	11	0	10 $\frac{1}{2}$	0	10	0	9 $\frac{5}{8}$	
32	0	12 $\frac{3}{4}$	0	12 $\frac{1}{4}$	0	11 $\frac{3}{4}$	0	11 $\frac{1}{8}$	0	10 $\frac{3}{4}$	0	10 $\frac{1}{4}$	
34	0	13 $\frac{1}{2}$	0	13	0	12 $\frac{1}{4}$	0	11 $\frac{3}{4}$	0	11 $\frac{1}{4}$	0	10 $\frac{7}{8}$	
36	0	14 $\frac{1}{2}$	0	13 $\frac{1}{2}$	0	13	0	12 $\frac{1}{2}$	0	12	0	11 $\frac{1}{2}$	
38	0	15 $\frac{1}{4}$	0	14 $\frac{1}{2}$	0	13 $\frac{3}{4}$	0	13 $\frac{1}{4}$	0	12 $\frac{3}{4}$	0	12 $\frac{1}{4}$	
40	1	0	0	15 $\frac{1}{2}$	0	14 $\frac{1}{2}$	0	14	0	13 $\frac{1}{4}$	0	12 $\frac{3}{4}$	
42	1	0 $\frac{3}{4}$	1	0	0	15 $\frac{1}{4}$	0	14 $\frac{3}{8}$	0	14	0	13 $\frac{1}{2}$	
44	1	1 $\frac{1}{2}$	1	0 $\frac{3}{4}$	1	0	0	15 $\frac{1}{8}$	0	14 $\frac{3}{4}$	0	14	
46	1	2 $\frac{1}{2}$	1	1 $\frac{1}{4}$	1	0 $\frac{3}{4}$	1	0	0	15 $\frac{1}{4}$	0	14 $\frac{3}{4}$	
48	1	3 $\frac{1}{8}$	1	2 $\frac{1}{8}$	1	1 $\frac{1}{8}$	1	0 $\frac{3}{4}$	1	0	0	15 $\frac{1}{8}$	
50	1	4	1	3	1	2 $\frac{1}{8}$	1	1 $\frac{1}{4}$	1	0 $\frac{3}{4}$	1	0	
52	1	4 $\frac{1}{4}$	1	3 $\frac{1}{4}$	1	3	1	2 $\frac{1}{8}$	1	1 $\frac{1}{8}$	1	0 $\frac{3}{4}$	
54	1	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	1	3 $\frac{5}{8}$	1	2 $\frac{1}{4}$	1	2	1	1 $\frac{1}{8}$	
56	1	6 $\frac{1}{8}$	1	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	1	3 $\frac{1}{8}$	1	2 $\frac{3}{4}$	1	2	
58	1	7 $\frac{1}{4}$	1	6 $\frac{1}{8}$	1	5 $\frac{1}{8}$	1	4 $\frac{1}{4}$	1	3 $\frac{1}{8}$	1	2 $\frac{3}{4}$	
60	1	8	1	6 $\frac{1}{4}$	1	5 $\frac{1}{4}$	1	4 $\frac{1}{2}$	1	4	1	3 $\frac{1}{4}$	
62	1	9	1	7 $\frac{1}{8}$	1	6 $\frac{1}{8}$	1	5 $\frac{1}{8}$	1	4 $\frac{3}{8}$	1	3 $\frac{1}{2}$	
64	1	9 $\frac{5}{8}$	1	8 $\frac{1}{8}$	1	7 $\frac{1}{8}$	1	6 $\frac{1}{4}$	1	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	
66	1	10 $\frac{1}{8}$	1	9 $\frac{1}{8}$	1	8	1	7	1	6	1	5 $\frac{1}{8}$	
68	1	11 $\frac{1}{4}$	1	9 $\frac{1}{4}$	1	8 $\frac{3}{4}$	1	7 $\frac{3}{4}$	1	6 $\frac{3}{4}$	1	5 $\frac{3}{4}$	
70	1	12	1	10	1	9 $\frac{1}{2}$	1	8 $\frac{1}{2}$	1	7 $\frac{1}{2}$	1	6 $\frac{1}{2}$	
72	1	12 $\frac{7}{8}$	1	11 $\frac{1}{8}$	1	10 $\frac{1}{4}$	1	9	1	8	1	7	

TABLE No. 6,—CONTINUED. 29

Giving the Weight of any number of Hanks, from 18 to 72, of any given number of Yarn.

		Nos. of Yarn.											
No. of Hanks	55		60		65		70		75		80		
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	
18	0	5 $\frac{1}{4}$	0	4 $\frac{3}{4}$	0	4 $\frac{1}{2}$	0	4 $\frac{1}{8}$	0	3 $\frac{7}{8}$	0	3 $\frac{5}{8}$	
20	0	5 $\frac{1}{2}$	0	5 $\frac{1}{2}$	0	4 $\frac{3}{4}$	0	4 $\frac{1}{2}$	0	4 $\frac{1}{4}$	0	4	
22	0	6 $\frac{1}{8}$	0	6	0	5 $\frac{1}{8}$	0	5	0	4 $\frac{3}{4}$	0	4 $\frac{3}{8}$	
24	0	7	0	6 $\frac{3}{8}$	0	6	0	5 $\frac{1}{2}$	0	5 $\frac{1}{8}$	0	4 $\frac{7}{8}$	
26	0	7 $\frac{1}{2}$	0	7	0	6 $\frac{1}{2}$	0	6	0	5 $\frac{5}{8}$	0	5 $\frac{1}{4}$	
28	0	8	0	7 $\frac{1}{2}$	0	7	0	6 $\frac{3}{8}$	0	6	0	5 $\frac{1}{2}$	
30	0	8 $\frac{1}{4}$	0	8	0	7 $\frac{1}{4}$	0	7	0	6 $\frac{3}{8}$	0	6	
32	0	9	0	8 $\frac{1}{2}$	0	8	0	7 $\frac{1}{2}$	0	6 $\frac{7}{8}$	0	6 $\frac{3}{8}$	
34	0	9 $\frac{1}{4}$	0	9	0	8 $\frac{1}{4}$	0	7 $\frac{3}{4}$	0	7 $\frac{1}{8}$	0	6 $\frac{7}{8}$	
36	0	10	0	9 $\frac{5}{8}$	0	8 $\frac{3}{4}$	0	8 $\frac{1}{4}$	0	7 $\frac{5}{8}$	0	7 $\frac{1}{4}$	
38	0	11	0	10 $\frac{1}{2}$	0	9	0	8 $\frac{5}{8}$	0	8 $\frac{1}{8}$	0	7 $\frac{5}{8}$	
40	0	11 $\frac{1}{2}$	0	10 $\frac{3}{4}$	0	9 $\frac{1}{2}$	0	9	0	8 $\frac{3}{8}$	0	8	
42	0	12 $\frac{1}{4}$	0	11 $\frac{1}{4}$	0	10	0	9 $\frac{5}{8}$	0	9	0	8 $\frac{1}{2}$	
44	0	12 $\frac{3}{8}$	0	11 $\frac{3}{8}$	0	10 $\frac{1}{2}$	0	10	0	9 $\frac{1}{2}$	0	8 $\frac{3}{4}$	
46	0	13 $\frac{1}{2}$	0	12 $\frac{1}{4}$	0	11 $\frac{1}{2}$	0	10 $\frac{1}{2}$	0	9 $\frac{3}{4}$	0	9 $\frac{1}{4}$	
48	0	14	0	12 $\frac{3}{8}$	0	11 $\frac{3}{4}$	0	11	0	10 $\frac{1}{4}$	0	9 $\frac{3}{8}$	
50	0	14 $\frac{1}{2}$	0	13 $\frac{1}{4}$	0	12	0	11 $\frac{1}{2}$	0	10 $\frac{3}{8}$	0	10	
52	0	15 $\frac{1}{4}$	0	13 $\frac{3}{8}$	0	12 $\frac{1}{2}$	0	11 $\frac{3}{4}$	0	11 $\frac{1}{4}$	0	10 $\frac{5}{8}$	
54	0	15 $\frac{3}{8}$	0	14 $\frac{1}{8}$	0	13	0	12 $\frac{1}{2}$	0	11 $\frac{3}{8}$	0	10 $\frac{7}{8}$	
56	1	0 $\frac{1}{4}$	0	15	0	13 $\frac{1}{2}$	0	12 $\frac{3}{4}$	0	12	0	11 $\frac{1}{4}$	
58	1	0 $\frac{1}{2}$	0	15 $\frac{1}{2}$	0	14	0	13 $\frac{1}{4}$	0	12 $\frac{3}{8}$	0	11 $\frac{3}{8}$	
60	1	1	1	0	0	14 $\frac{1}{2}$	0	13 $\frac{3}{8}$	0	12 $\frac{7}{8}$	0	12	
62	1	2	1	0 $\frac{1}{2}$	0	15 $\frac{1}{4}$	0	14 $\frac{1}{8}$	0	13 $\frac{1}{4}$	0	12 $\frac{3}{8}$	
64	1	2 $\frac{5}{8}$	1	1	0	15 $\frac{3}{8}$	0	14 $\frac{3}{8}$	0	13 $\frac{5}{8}$	0	12 $\frac{7}{8}$	
66	1	3 $\frac{1}{4}$	1	1 $\frac{5}{8}$	1	0	0	15 $\frac{1}{2}$	0	14	0	13 $\frac{1}{4}$	
68	1	3 $\frac{3}{8}$	1	2 $\frac{1}{8}$	1	0	0	15 $\frac{5}{8}$	0	14 $\frac{1}{2}$	0	13 $\frac{5}{8}$	
70	1	4	1	2 $\frac{3}{4}$	1	1	1	0	0	15	0	14	

30 TABLE No. 6,—CONTINUED.

Giving the Weight of any number of Hanks, from 18 to 72, of any given numbers of Yarn.

		Nos. of Yarn.									
No. of Hanks	85		90		95		100		110		
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	
18	0	3	0	3 $\frac{1}{4}$	0	3	0	2 $\frac{7}{8}$	0	2 $\frac{5}{8}$	
20	0	3 $\frac{1}{4}$	0	3 $\frac{3}{8}$	0	3 $\frac{3}{8}$	0	3 $\frac{1}{8}$	0	2 $\frac{7}{8}$	
22	0	4 $\frac{1}{8}$	0	4	0	3 $\frac{5}{8}$	0	3 $\frac{1}{2}$	0	3 $\frac{1}{4}$	
24	0	4 $\frac{1}{4}$	0	4 $\frac{1}{4}$	0	4	0	3 $\frac{3}{4}$	0	3 $\frac{1}{2}$	
26	0	4 $\frac{3}{8}$	0	4 $\frac{3}{8}$	0	4 $\frac{1}{4}$	0	4 $\frac{1}{8}$	0	3 $\frac{3}{8}$	
28	0	5 $\frac{1}{4}$	0	5	0	4 $\frac{3}{4}$	0	4 $\frac{1}{2}$	0	4	
30	0	5 $\frac{3}{8}$	0	5 $\frac{1}{4}$	0	5	0	4 $\frac{3}{8}$	0	4 $\frac{1}{8}$	
32	0	6	0	5 $\frac{3}{4}$	0	5 $\frac{3}{8}$	0	5 $\frac{1}{8}$	0	4 $\frac{3}{8}$	
34	0	6 $\frac{1}{4}$	0	6	0	5 $\frac{5}{8}$	0	5 $\frac{1}{4}$	0	5	
36	0	6 $\frac{3}{8}$	0	6 $\frac{1}{2}$	0	6	0	5 $\frac{3}{8}$	0	5 $\frac{1}{4}$	
38	0	7 $\frac{1}{4}$	0	6 $\frac{3}{4}$	0	6 $\frac{3}{8}$	0	6	0	5 $\frac{3}{8}$	
40	0	7 $\frac{3}{8}$	0	7	0	6 $\frac{5}{8}$	0	6 $\frac{1}{4}$	0	5 $\frac{5}{8}$	
42	0	7 $\frac{5}{8}$	0	7 $\frac{1}{4}$	0	7	0	6 $\frac{3}{8}$	0	6	
44	0	8 $\frac{1}{4}$	0	7 $\frac{3}{8}$	0	7 $\frac{1}{4}$	0	7	0	6 $\frac{1}{8}$	
46	0	8 $\frac{3}{8}$	0	8	0	7 $\frac{3}{8}$	0	7 $\frac{1}{4}$	0	6 $\frac{3}{8}$	
48	0	9	0	8 $\frac{1}{4}$	0	8	0	7 $\frac{3}{8}$	0	7	
50	0	9 $\frac{1}{4}$	0	8 $\frac{3}{8}$	0	8 $\frac{1}{4}$	0	8	0	7 $\frac{1}{4}$	
52	0	10	0	9	0	9	0	8 $\frac{1}{4}$	0	7 $\frac{3}{8}$	
54	0	10 $\frac{1}{4}$	0	9 $\frac{1}{4}$	0	9 $\frac{1}{8}$	0	8 $\frac{3}{8}$	0	7 $\frac{5}{8}$	
56	0	10 $\frac{3}{8}$	0	10	0	9 $\frac{3}{8}$	0	9	0	8	
58	0	10 $\frac{5}{8}$	0	10 $\frac{1}{4}$	0	9 $\frac{5}{8}$	0	9 $\frac{1}{4}$	0	8 $\frac{1}{4}$	
60	0	11	0	10 $\frac{3}{8}$	0	10	0	9 $\frac{3}{8}$	0	8 $\frac{3}{8}$	
62	0	11 $\frac{1}{4}$	0	11	0	10 $\frac{1}{4}$	0	9 $\frac{5}{8}$	0	9	
64	0	12	0	11 $\frac{3}{8}$	0	10 $\frac{3}{8}$	0	10 $\frac{1}{4}$	0	9 $\frac{3}{8}$	
66	0	12 $\frac{1}{4}$	0	11 $\frac{5}{8}$	0	11 $\frac{1}{4}$	0	10 $\frac{3}{8}$	0	9 $\frac{5}{8}$	
68	0	12 $\frac{3}{8}$	0	12	0	11 $\frac{3}{8}$	0	10 $\frac{5}{8}$	0	9 $\frac{7}{8}$	
70	0	13 $\frac{1}{4}$	0	12 $\frac{1}{4}$	0	11 $\frac{5}{8}$	0	11 $\frac{1}{4}$	0	10 $\frac{1}{4}$	
72	0	13 $\frac{3}{8}$	0	12 $\frac{3}{8}$	0	12 $\frac{1}{4}$	0	11 $\frac{3}{8}$	0	10 $\frac{3}{8}$	

TABLE No. 6,—CONTINUED. 31

Giving the Weight of any number of Hanks, from 74 to 400, of any given number of Yarn.

		Nos. of Yarn.										
No. of Hanks	16		18		20		22		24		26	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.
74	4	10	4	17 ⁷ / ₈	3	11 ¹ / ₄	3	5 ⁷ / ₈	3	1 ³ / ₂	2	13 ¹ / ₂
76	4	12	4	3 ¹ / ₂	3	12 ³ / ₄	3	7 ¹ / ₄	3	2 ³ / ₄	2	14 ³ / ₄
78	4	14	4	5 ⁵ / ₈	3	14 ¹ / ₂	3	8 ³ / ₄	3	4	3	0
80	5	0	4	7 ¹ / ₂	4	0	3	10 ¹ / ₄	3	5 ³ / ₈	3	1 ¹ / ₄
82	5	2	4	8 ⁷ / ₈	4	1 ⁵ / ₈	3	11 ³ / ₄	3	6 ³ / ₄	3	2 ¹ / ₂
84	5	4	4	10 ¹ / ₄	4	3 ¹ / ₄	3	13 ¹ / ₈	3	8	3	3 ³ / ₄
86	5	6	4	12 ¹ / ₂	4	4 ⁷ / ₈	3	14 ¹ / ₂	3	9 ³ / ₈	3	5
88	5	8	4	14 ¹ / ₄	4	6 ¹ / ₂	4	0	3	10 ³ / ₄	3	6 ¹ / ₄
90	5	10	5	0	4	8	4	1 ¹ / ₂	3	12	3	7 ³ / ₈
92	5	12	5	1 ⁷ / ₈	4	9 ⁵ / ₈	4	3	3	13 ³ / ₈	3	8 ¹ / ₂
94	5	14	5	3 ¹ / ₂	4	11 ¹ / ₄	4	4 ³ / ₈	3	14 ¹ / ₄	3	9 ⁷ / ₈
96	6	0	5	5 ⁵ / ₈	4	12 ⁷ / ₈	4	5 ⁷ / ₈	4	0	3	11
98	6	2	5	7 ¹ / ₂	4	14 ¹ / ₂	4	7 ¹ / ₄	4	1 ³ / ₈	3	12 ³ / ₈
100	6	4	5	8 ¹ / ₂	5	0	4	8 ³ / ₄	4	2 ¹ / ₄	3	13 ¹ / ₂
102	6	6	5	10 ³ / ₄	5	1 ⁵ / ₈	4	10 ¹ / ₄	4	4	3	14 ³ / ₄
104	6	8	5	12 ¹ / ₂	5	3 ¹ / ₄	4	11 ³ / ₄	4	5 ³ / ₈	4	0
106	6	10	5	14 ¹ / ₄	5	4 ⁷ / ₈	4	13 ¹ / ₈	4	6 ³ / ₄	4	1 ¹ / ₄
108	6	12	6	0	5	6 ¹ / ₂	4	14 ¹ / ₂	4	8	4	2 ¹ / ₂
110	6	14	6	1 ⁷ / ₈	5	8	5	0	4	9 ³ / ₈	4	3 ³ / ₄
112	7	0	6	3 ¹ / ₂	5	9 ⁵ / ₈	5	1 ¹ / ₂	4	10 ¹ / ₄	4	5
114	7	2	6	5 ³ / ₈	5	11 ¹ / ₄	5	3	4	12	4	6 ¹ / ₄
116	7	4	6	7 ¹ / ₈	5	12 ⁷ / ₈	5	4 ³ / ₈	4	13 ³ / ₈	4	7 ³ / ₈
118	7	6	6	9	5	14 ¹ / ₂	5	5 ⁷ / ₈	4	14 ³ / ₄	4	8 ¹ / ₂
120	7	8	6	10 ³ / ₄	6	0	5	7 ¹ / ₄	5	0	4	9 ⁷ / ₈
200	12	8	11	1 ³ / ₄	10	0	9	1 ¹ / ₂	8	5 ³ / ₈	7	11
300	18	12	16	10 ³ / ₄	15	0	13	10 ¹ / ₄	12	8	11	8 ⁵ / ₈
400	25	0	22	3 ¹ / ₂	20	0	18	3	16	10 ³ / ₄	15	6

32 TABLE No. 6,—CONTINUED.

Giving the Weight of any number of Hanks, from 74 to 400, of any given number of Yarn.

		Nos. of Yarn.											
No. of Hanks	28		30		32		34		36		38		
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	
74	2	10 $\frac{1}{4}$	2	7 $\frac{1}{2}$	2	5	2	3	2	1	1	15 $\frac{1}{8}$	
76	2	11 $\frac{1}{2}$	2	8 $\frac{1}{2}$	2	6	2	3 $\frac{7}{8}$	2	1 $\frac{13}{4}$	2	0	
78	2	12 $\frac{1}{2}$	2	9 $\frac{1}{2}$	2	7	2	4 $\frac{1}{2}$	2	2 $\frac{3}{4}$	2	1	
80	2	13 $\frac{1}{4}$	2	10 $\frac{1}{4}$	2	8	2	5 $\frac{1}{4}$	2	3 $\frac{3}{8}$	2	1 $\frac{3}{4}$	
82	2	14 $\frac{7}{8}$	2	11 $\frac{3}{4}$	2	9	2	6 $\frac{1}{4}$	2	4 $\frac{1}{2}$	2	2 $\frac{3}{4}$	
84	3	0	2	12 $\frac{7}{8}$	2	10	2	7 $\frac{1}{2}$	2	5 $\frac{1}{2}$	2	3 $\frac{1}{2}$	
86	3	1 $\frac{1}{8}$	2	13 $\frac{7}{8}$	2	11	2	8 $\frac{1}{2}$	2	6 $\frac{1}{4}$	2	4 $\frac{1}{4}$	
88	3	2 $\frac{1}{4}$	2	14 $\frac{7}{8}$	2	12	2	9 $\frac{1}{2}$	2	7 $\frac{1}{2}$	2	5 $\frac{1}{8}$	
90	3	3 $\frac{1}{8}$	3	0	2	13	2	10 $\frac{1}{2}$	2	8	2	6	
92	3	4 $\frac{1}{8}$	3	1	2	14	2	11 $\frac{1}{2}$	2	9	2	6 $\frac{7}{8}$	
94	3	5 $\frac{1}{8}$	3	2 $\frac{1}{8}$	2	15	2	12 $\frac{1}{4}$	2	9 $\frac{7}{8}$	2	7 $\frac{1}{8}$	
96	3	6 $\frac{1}{4}$	3	3 $\frac{1}{8}$	3	0	2	13 $\frac{1}{4}$	2	10 $\frac{1}{4}$	2	8 $\frac{1}{4}$	
98	3	8	3	4 $\frac{1}{4}$	3	1	2	14 $\frac{1}{8}$	2	11 $\frac{3}{4}$	2	9 $\frac{1}{2}$	
100	3	9 $\frac{1}{8}$	3	5 $\frac{1}{4}$	3	2	2	15 $\frac{1}{8}$	2	12 $\frac{1}{2}$	2	10 $\frac{1}{4}$	
102	3	10 $\frac{1}{4}$	3	6 $\frac{1}{4}$	3	3	3	0	2	13 $\frac{1}{2}$	2	11	
104	3	11 $\frac{1}{8}$	3	7 $\frac{1}{8}$	3	4	3	1	2	14 $\frac{1}{4}$	2	11 $\frac{3}{4}$	
106	3	12 $\frac{1}{2}$	3	8 $\frac{1}{2}$	3	5	3	1 $\frac{7}{8}$	2	15 $\frac{1}{4}$	2	12 $\frac{1}{8}$	
108	3	13 $\frac{1}{2}$	3	9 $\frac{1}{2}$	3	6	3	2 $\frac{1}{2}$	3	0	2	13 $\frac{1}{8}$	
110	3	14 $\frac{1}{4}$	3	10 $\frac{1}{4}$	3	7	3	3 $\frac{3}{4}$	3	1	2	14 $\frac{1}{4}$	
112	4	0	3	11 $\frac{1}{4}$	3	8	3	4 $\frac{1}{2}$	3	1 $\frac{7}{8}$	2	15 $\frac{1}{4}$	
114	4	1 $\frac{1}{8}$	3	12 $\frac{1}{4}$	3	9	3	5 $\frac{1}{2}$	3	2 $\frac{1}{2}$	3	0	
116	4	2 $\frac{1}{4}$	3	13 $\frac{7}{8}$	3	10	3	6 $\frac{1}{2}$	3	3 $\frac{1}{4}$	3	0 $\frac{7}{8}$	
118	4	3 $\frac{1}{2}$	3	14 $\frac{1}{2}$	3	11	3	7 $\frac{1}{2}$	3	4 $\frac{1}{2}$	3	1 $\frac{1}{4}$	
120	4	4 $\frac{1}{2}$	4	0	3	12	3	8 $\frac{1}{2}$	3	5 $\frac{1}{2}$	3	2 $\frac{1}{4}$	
200	7	2 $\frac{1}{4}$	6	10 $\frac{3}{4}$	6	4	5	14 $\frac{1}{2}$	5	8 $\frac{1}{2}$	5	4 $\frac{1}{4}$	
300	10	11 $\frac{1}{2}$	10	0	9	6	8	13 $\frac{1}{4}$	8	5 $\frac{1}{2}$	7	14 $\frac{1}{4}$	
400	14	4 $\frac{1}{2}$	13	5 $\frac{1}{2}$	12	8	11	12 $\frac{1}{4}$	11	1 $\frac{1}{4}$	10	8 $\frac{1}{2}$	

TABLE No. 6,—CONTINUED. 33

Giving the Weight of any number of Hanks, from 74 to 400, of any given number of Yarn.

Nos. of Yarn.

No. of Hanks	40		42		44		46		48		50	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	bs.	oz.
74	1	13 $\frac{5}{4}$	1	12 $\frac{1}{4}$	1	11	1	9 $\frac{3}{4}$	1	8 $\frac{3}{4}$	1	7 $\frac{3}{4}$
76	1	14 $\frac{1}{2}$	1	13	1	11 $\frac{3}{4}$	1	10 $\frac{1}{2}$	1	9 $\frac{1}{4}$	1	8 $\frac{5}{8}$
78	1	15 $\frac{1}{4}$	1	13 $\frac{3}{4}$	1	12 $\frac{1}{2}$	1	11 $\frac{1}{2}$	1	10	1	9
80	2	0	1	14 $\frac{1}{2}$	1	13 $\frac{1}{2}$	1	11 $\frac{7}{8}$	1	10 $\frac{3}{4}$	1	9 $\frac{5}{8}$
82	2	0 $\frac{3}{8}$	1	15 $\frac{1}{4}$	1	13 $\frac{7}{8}$	1	12 $\frac{1}{2}$	1	11 $\frac{3}{8}$	1	10 $\frac{1}{4}$
84	2	1 $\frac{1}{4}$	2	0	1	14 $\frac{1}{2}$	1	13 $\frac{1}{4}$	1	12	1	10 $\frac{7}{8}$
86	2	2 $\frac{1}{4}$	2	0 $\frac{3}{4}$	1	15 $\frac{1}{8}$	1	13 $\frac{7}{8}$	1	12 $\frac{3}{4}$	1	11 $\frac{1}{2}$
88	2	3 $\frac{1}{4}$	2	1 $\frac{1}{2}$	2	0	1	14 $\frac{1}{2}$	1	13 $\frac{3}{8}$	1	12 $\frac{1}{4}$
90	2	4	2	2 $\frac{1}{2}$	2	0 $\frac{3}{4}$	1	15 $\frac{1}{4}$	1	14	1	12 $\frac{7}{8}$
92	2	4 $\frac{3}{4}$	2	3 $\frac{1}{2}$	2	1 $\frac{1}{2}$	2	0	1	14 $\frac{3}{4}$	1	13 $\frac{1}{2}$
94	2	5 $\frac{3}{4}$	2	4	2	2 $\frac{1}{4}$	2	0 $\frac{3}{4}$	1	15 $\frac{3}{8}$	1	14 $\frac{1}{4}$
96	2	6 $\frac{3}{4}$	2	4 $\frac{1}{2}$	2	3	2	1 $\frac{1}{2}$	2	0	1	14 $\frac{7}{8}$
98	2	7 $\frac{1}{4}$	2	5 $\frac{1}{2}$	2	3 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2	0 $\frac{3}{4}$	1	15 $\frac{1}{2}$
100	2	8	2	6 $\frac{1}{2}$	2	4 $\frac{1}{2}$	2	2 $\frac{1}{2}$	2	1 $\frac{3}{8}$	2	0
102	2	8 $\frac{3}{4}$	2	6 $\frac{7}{8}$	2	5 $\frac{1}{4}$	2	3 $\frac{1}{2}$	2	2	2	0 $\frac{3}{4}$
104	2	9 $\frac{1}{4}$	2	7 $\frac{1}{2}$	2	6	2	4 $\frac{1}{4}$	2	2 $\frac{3}{4}$	2	1 $\frac{5}{8}$
106	2	10 $\frac{1}{4}$	2	8 $\frac{1}{2}$	2	6 $\frac{3}{4}$	2	5	2	3 $\frac{1}{2}$	2	2
108	2	11 $\frac{1}{4}$	2	9 $\frac{1}{2}$	2	7 $\frac{1}{2}$	2	5 $\frac{3}{4}$	2	4	2	2 $\frac{5}{8}$
110	2	12	2	9 $\frac{7}{8}$	2	8	2	6 $\frac{1}{2}$	2	4 $\frac{3}{4}$	2	3 $\frac{1}{2}$
112	2	12 $\frac{3}{4}$	2	10	2	8 $\frac{3}{4}$	2	7 $\frac{1}{4}$	2	5 $\frac{1}{2}$	2	4
114	2	13 $\frac{1}{4}$	2	11 $\frac{1}{2}$	2	9 $\frac{1}{2}$	2	7 $\frac{3}{4}$	2	6	2	4 $\frac{1}{4}$
116	2	14 $\frac{1}{4}$	2	12 $\frac{1}{4}$	2	10 $\frac{1}{4}$	2	8 $\frac{1}{2}$	2	6 $\frac{3}{4}$	2	4 $\frac{7}{8}$
118	2	15 $\frac{1}{4}$	2	13	2	11	2	8 $\frac{7}{8}$	2	7 $\frac{3}{8}$	2	5 $\frac{1}{2}$
120	3	0	2	13 $\frac{3}{4}$	2	11 $\frac{3}{4}$	2	9 $\frac{1}{4}$	2	8	2	6 $\frac{3}{8}$
200	5	0	4	12 $\frac{1}{4}$	4	8 $\frac{7}{8}$	4	5 $\frac{5}{8}$	4	2 $\frac{3}{4}$	4	0
300	7	8	7	2 $\frac{1}{4}$	6	13 $\frac{1}{8}$	6	8 $\frac{1}{8}$	6	4	6	0
400	10	0	9	8 $\frac{1}{2}$	9	1 $\frac{1}{2}$	8	11 $\frac{1}{8}$	8	5 $\frac{1}{2}$	8	0

34 TABLE No. 6,—CONTINUED.

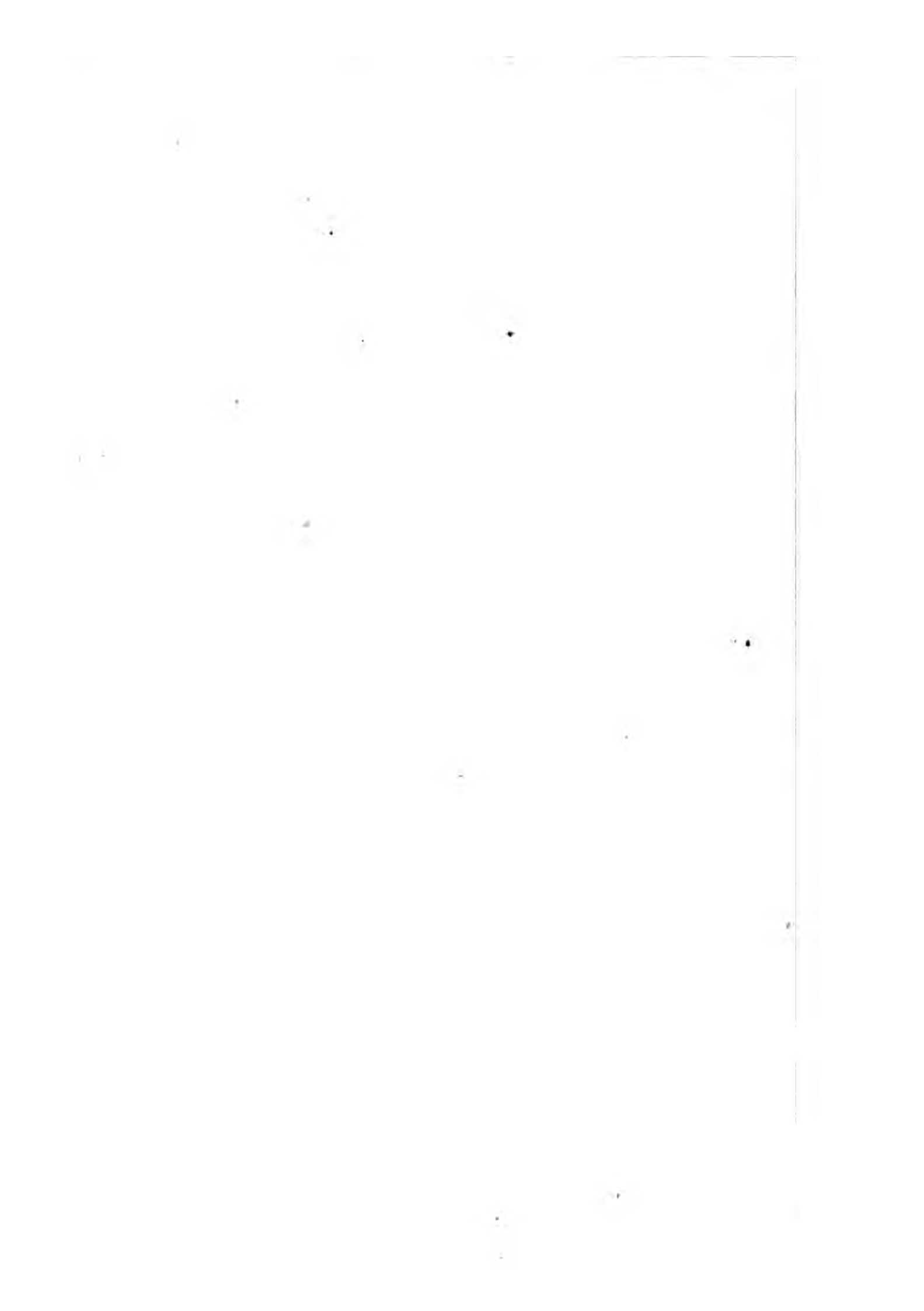
Giving the Weight of any number of Hanks, from 74 to 400, of any given number of Yarn.

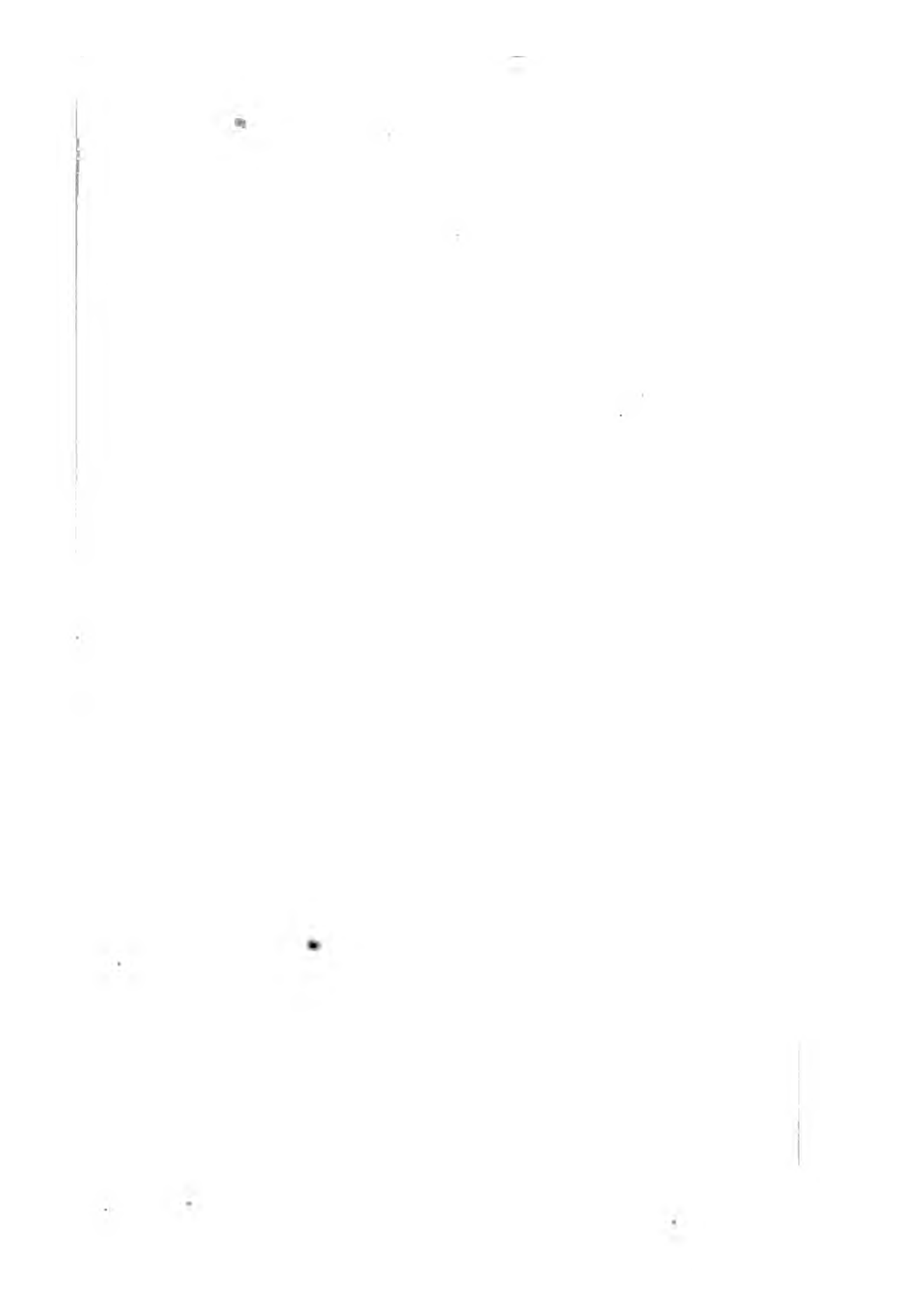
		Nos. of Yarn.											
No. of Hanks	55		60		65		70		75		80		
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	
74	1	5 $\frac{3}{8}$	1	3 $\frac{3}{4}$	1	2 $\frac{1}{4}$	1	1	1	0	0	14 $\frac{7}{8}$	
76	1	6 $\frac{1}{8}$	1	4 $\frac{1}{4}$	1	2 $\frac{3}{4}$	1	1 $\frac{1}{4}$	1	0	0	15 $\frac{1}{4}$	
78	1	6 $\frac{3}{8}$	1	4 $\frac{3}{4}$	1	3 $\frac{1}{4}$	1	1 $\frac{3}{4}$	1	0 $\frac{5}{8}$	0	15 $\frac{3}{8}$	
80	1	7 $\frac{1}{4}$	1	5	1	3 $\frac{3}{4}$	1	2 $\frac{1}{4}$	1	1	1	0	
82	1	8	1	5 $\frac{5}{8}$	1	4 $\frac{1}{4}$	1	2 $\frac{3}{4}$	1	1 $\frac{1}{2}$	1	0 $\frac{3}{8}$	
84	1	8 $\frac{1}{2}$	1	6 $\frac{3}{8}$	1	4 $\frac{3}{4}$	1	3 $\frac{1}{4}$	1	1 $\frac{7}{8}$	1	0 $\frac{7}{8}$	
86	1	9	1	7	1	5 $\frac{1}{2}$	1	3 $\frac{3}{4}$	1	2 $\frac{5}{8}$	1	1 $\frac{1}{4}$	
88	1	9 $\frac{5}{8}$	1	7 $\frac{1}{2}$	1	5 $\frac{3}{4}$	1	4 $\frac{1}{8}$	1	3	1	1 $\frac{3}{8}$	
90	1	10 $\frac{1}{4}$	1	8	1	6 $\frac{1}{2}$	1	4 $\frac{5}{8}$	1	3 $\frac{1}{2}$	1	2	
92	1	10 $\frac{5}{8}$	1	8 $\frac{1}{2}$	1	6 $\frac{3}{4}$	1	5	1	3 $\frac{3}{4}$	1	2 $\frac{3}{8}$	
94	1	11 $\frac{1}{8}$	1	9	1	7 $\frac{1}{8}$	1	5 $\frac{1}{2}$	1	4	1	2 $\frac{7}{8}$	
96	1	12	1	9 $\frac{1}{2}$	1	7 $\frac{3}{8}$	1	6	1	4 $\frac{1}{2}$	1	3 $\frac{1}{4}$	
98	1	12 $\frac{1}{2}$	1	10 $\frac{1}{8}$	1	8 $\frac{1}{8}$	1	6 $\frac{3}{8}$	1	4 $\frac{7}{8}$	1	3 $\frac{3}{8}$	
100	1	13 $\frac{1}{4}$	1	10 $\frac{5}{8}$	1	8 $\frac{3}{8}$	1	6 $\frac{7}{8}$	1	5 $\frac{1}{8}$	1	4	
102	1	13 $\frac{3}{4}$	1	11 $\frac{1}{4}$	1	9 $\frac{1}{8}$	1	7 $\frac{1}{8}$	1	5 $\frac{3}{4}$	1	4 $\frac{3}{8}$	
104	1	14 $\frac{1}{4}$	1	11 $\frac{3}{4}$	1	9 $\frac{5}{8}$	1	7 $\frac{3}{8}$	1	6 $\frac{1}{4}$	1	4 $\frac{7}{8}$	
106	1	15	1	12 $\frac{1}{4}$	1	10 $\frac{1}{8}$	1	8 $\frac{1}{4}$	1	6 $\frac{5}{8}$	1	5 $\frac{1}{4}$	
108	1	15 $\frac{1}{2}$	1	12 $\frac{3}{4}$	1	10 $\frac{5}{8}$	1	8 $\frac{3}{4}$	1	7	1	5 $\frac{5}{8}$	
110	2	0	1	13 $\frac{1}{4}$	1	11 $\frac{1}{8}$	1	9	1	7 $\frac{1}{2}$	1	6	
112	2	0 $\frac{1}{2}$	1	13 $\frac{3}{4}$	1	11 $\frac{5}{8}$	1	9 $\frac{5}{8}$	1	7 $\frac{7}{8}$	1	6 $\frac{3}{8}$	
114	2	1 $\frac{1}{2}$	1	14 $\frac{1}{8}$	1	12 $\frac{1}{8}$	1	10 $\frac{1}{8}$	1	8	1	6 $\frac{7}{8}$	
116	2	1 $\frac{7}{8}$	1	15	1	12 $\frac{5}{8}$	1	10 $\frac{5}{8}$	1	8 $\frac{1}{4}$	1	7 $\frac{1}{4}$	
118	2	2 $\frac{1}{8}$	1	15 $\frac{1}{2}$	1	13	1	11	1	9 $\frac{1}{4}$	1	7 $\frac{5}{8}$	
120	2	3	2	0	1	13 $\frac{5}{8}$	1	11 $\frac{1}{2}$	1	9 $\frac{5}{8}$	1	8	
200	3	10 $\frac{1}{4}$	3	5 $\frac{3}{8}$	3	1 $\frac{1}{4}$	2	13 $\frac{3}{4}$	2	10 $\frac{3}{4}$	2	8	
300	5	7 $\frac{1}{4}$	5	0	4	9 $\frac{3}{4}$	4	4 $\frac{5}{8}$	4	0	3	12	
400	7	4 $\frac{3}{8}$	6	10 $\frac{3}{4}$	6	2 $\frac{1}{2}$	5	11 $\frac{1}{2}$	5	5 $\frac{3}{8}$	5	0	

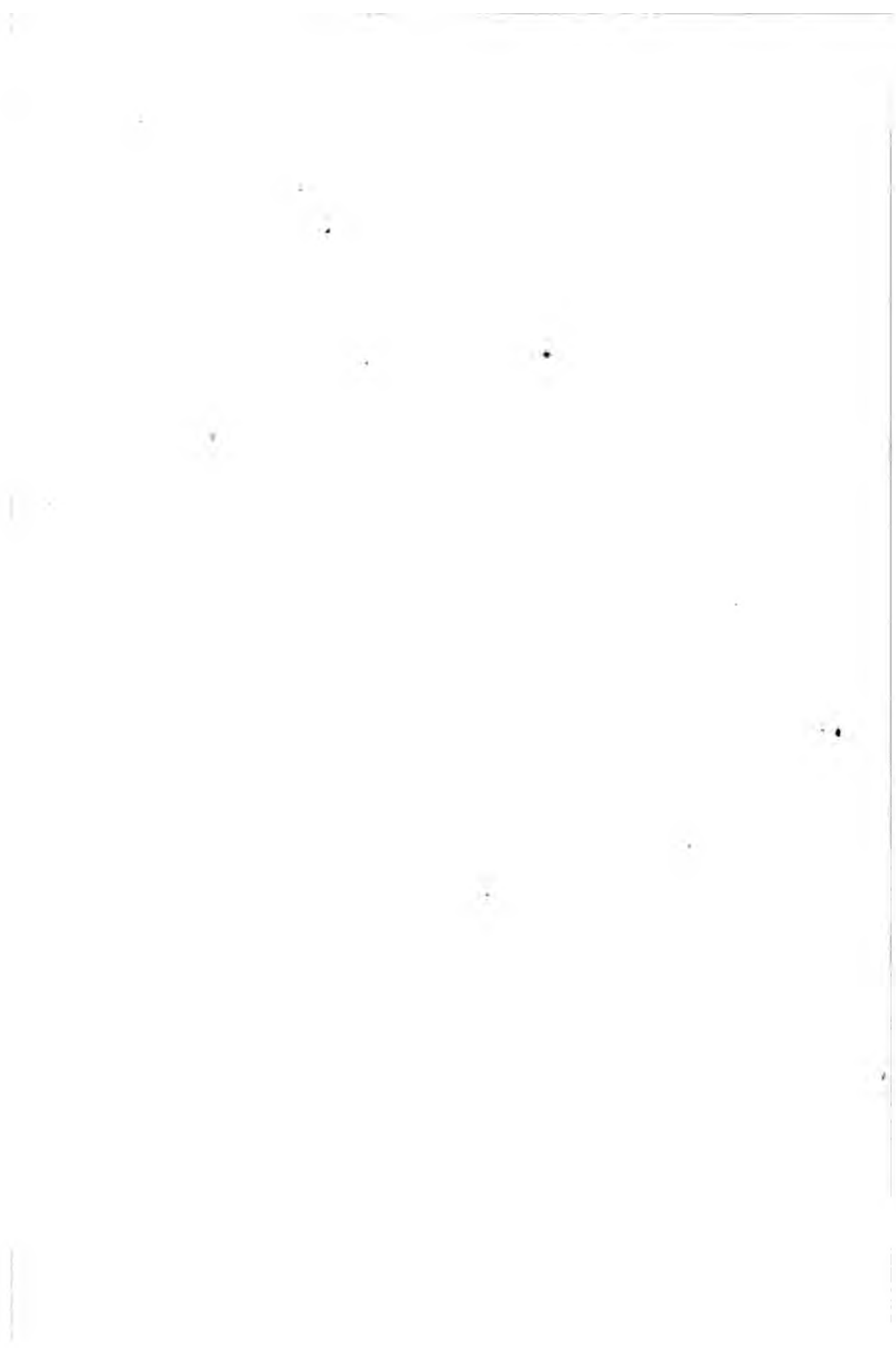
TABLE No. 6,—CONTINUED. 35

Giving the Weight of any number of Hanks, from 74 to 400, of any given numbers of Yarn.

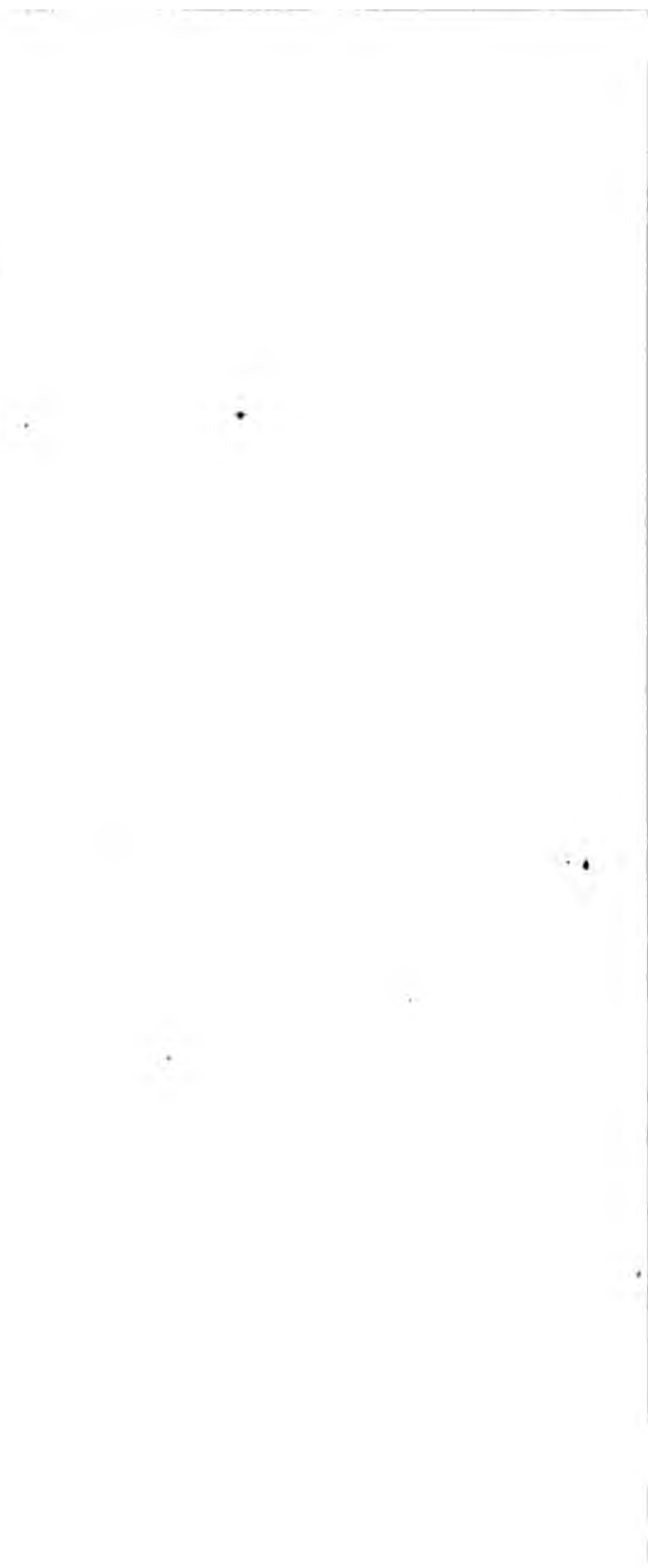
Nos. of Yarn.										
No. of Hanks	85		90		95		100		110	
	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.	lbs.	oz.
74	0	14	0	13 $\frac{1}{8}$	0	12 $\frac{1}{2}$	0	11 $\frac{7}{8}$	0	10 $\frac{3}{4}$
76	0	14 $\frac{1}{4}$	0	13 $\frac{1}{2}$	0	12 $\frac{7}{8}$	0	12 $\frac{1}{4}$	0	11
78	0	14 $\frac{3}{8}$	0	14	0	13 $\frac{1}{8}$	0	12 $\frac{1}{2}$	0	11 $\frac{3}{8}$
80	0	15	0	14 $\frac{1}{4}$	0	13 $\frac{1}{2}$	0	12 $\frac{3}{4}$	0	11 $\frac{3}{4}$
82	0	15 $\frac{1}{8}$	0	14 $\frac{3}{8}$	0	13 $\frac{7}{8}$	0	13 $\frac{1}{8}$	0	12
84	0	15 $\frac{1}{4}$	0	15	0	14 $\frac{1}{8}$	0	13 $\frac{1}{4}$	0	12 $\frac{1}{4}$
86	1	0 $\frac{1}{4}$	0	15 $\frac{1}{4}$	0	14 $\frac{1}{2}$	0	13 $\frac{1}{4}$	0	12 $\frac{1}{2}$
88	1	0 $\frac{3}{4}$	0	15 $\frac{3}{8}$	0	14 $\frac{7}{8}$	0	14	0	12 $\frac{3}{4}$
90	1	1	1	0	0	15 $\frac{1}{4}$	0	14 $\frac{3}{8}$	0	13 $\frac{1}{2}$
92	1	1 $\frac{1}{4}$	1	0 $\frac{3}{8}$	0	15 $\frac{1}{2}$	0	14 $\frac{3}{4}$	0	13 $\frac{3}{4}$
94	1	1 $\frac{3}{4}$	1	0 $\frac{1}{2}$	1	0	0	15	0	13 $\frac{3}{4}$
96	1	2	1	1	1	0	0	15 $\frac{1}{2}$	0	14
98	1	2 $\frac{3}{8}$	1	1 $\frac{3}{8}$	1	0 $\frac{1}{2}$	0	15 $\frac{5}{8}$	0	14 $\frac{1}{4}$
100	1	2 $\frac{1}{2}$	1	1 $\frac{1}{2}$	1	0 $\frac{7}{8}$	1	0	0	14 $\frac{1}{2}$
102	1	3 $\frac{1}{4}$	1	2 $\frac{1}{8}$	1	1 $\frac{1}{8}$	1	0 $\frac{3}{8}$	0	14 $\frac{3}{4}$
104	1	3 $\frac{3}{8}$	1	2 $\frac{1}{4}$	1	1 $\frac{1}{4}$	1	0 $\frac{1}{2}$	0	15 $\frac{1}{8}$
106	1	4	1	2 $\frac{3}{8}$	1	1 $\frac{3}{8}$	1	1	0	15 $\frac{1}{4}$
108	1	4 $\frac{1}{4}$	1	3	1	2 $\frac{1}{8}$	1	1 $\frac{1}{4}$	0	15 $\frac{3}{4}$
110	1	4 $\frac{3}{8}$	1	3 $\frac{1}{8}$	1	2 $\frac{1}{4}$	1	1 $\frac{3}{8}$	1	0
112	1	5 $\frac{1}{8}$	1	4	1	2 $\frac{7}{8}$	1	1 $\frac{7}{8}$	1	0 $\frac{1}{4}$
114	1	5 $\frac{1}{4}$	1	4 $\frac{1}{4}$	1	3 $\frac{1}{8}$	1	2 $\frac{1}{4}$	1	0 $\frac{3}{8}$
116	1	5 $\frac{3}{8}$	1	4 $\frac{3}{8}$	1	3 $\frac{1}{4}$	1	2 $\frac{3}{8}$	1	0 $\frac{1}{2}$
118	1	6 $\frac{1}{4}$	1	5	1	3 $\frac{7}{8}$	1	2 $\frac{3}{4}$	1	1 $\frac{1}{8}$
120	1	6 $\frac{3}{8}$	1	5 $\frac{3}{8}$	1	4 $\frac{1}{4}$	1	3 $\frac{1}{4}$	1	1 $\frac{1}{2}$
200	2	5 $\frac{3}{8}$	2	3 $\frac{3}{8}$	2	1 $\frac{3}{4}$	2	0	1	13 $\frac{1}{8}$
300	3	8 $\frac{1}{2}$	3	5 $\frac{3}{8}$	3	2 $\frac{1}{2}$	3	0	2	11 $\frac{3}{4}$
400	4	11 $\frac{1}{4}$	4	7 $\frac{1}{8}$	4	3 $\frac{3}{8}$	4	0	3	10 $\frac{1}{4}$

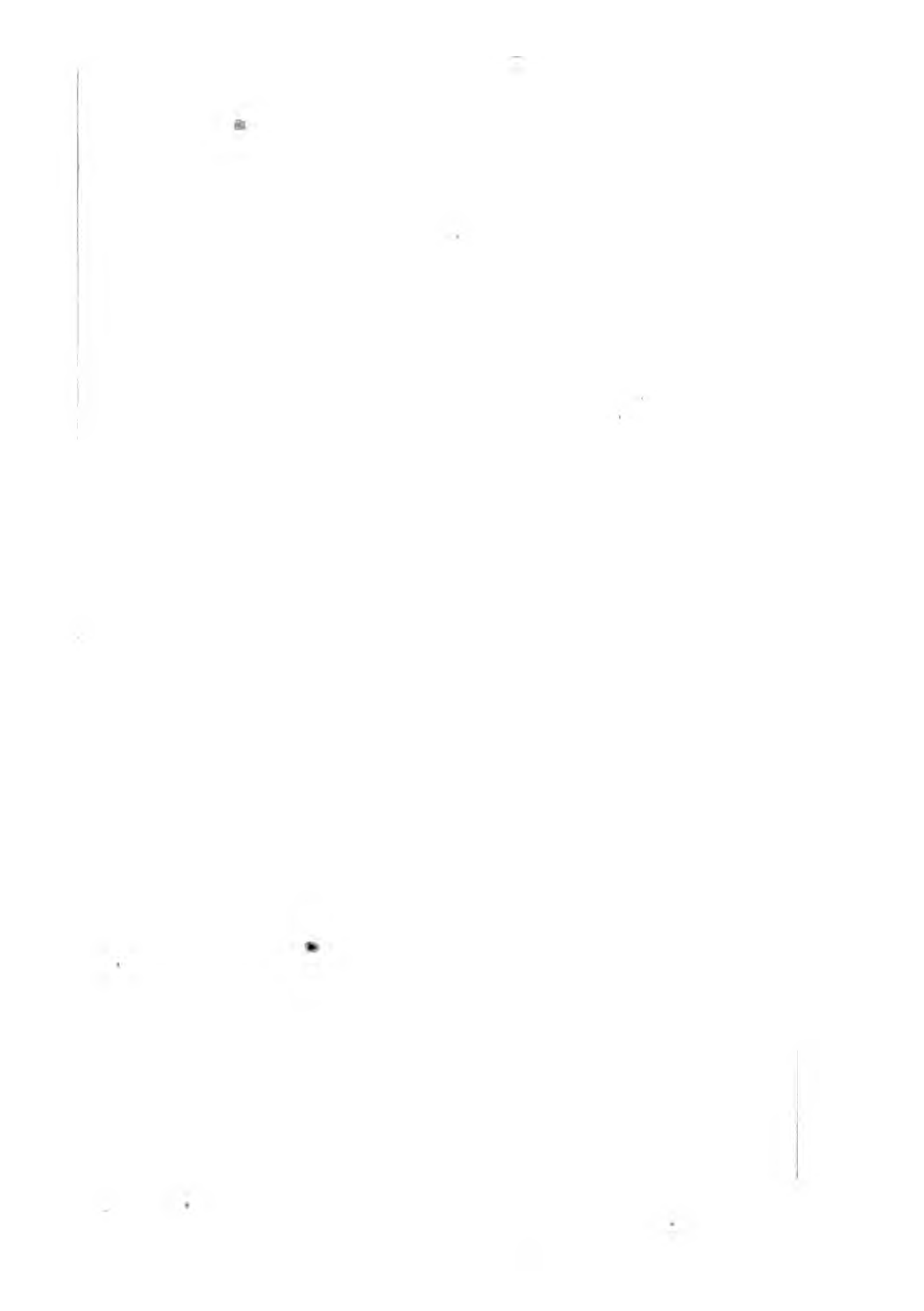


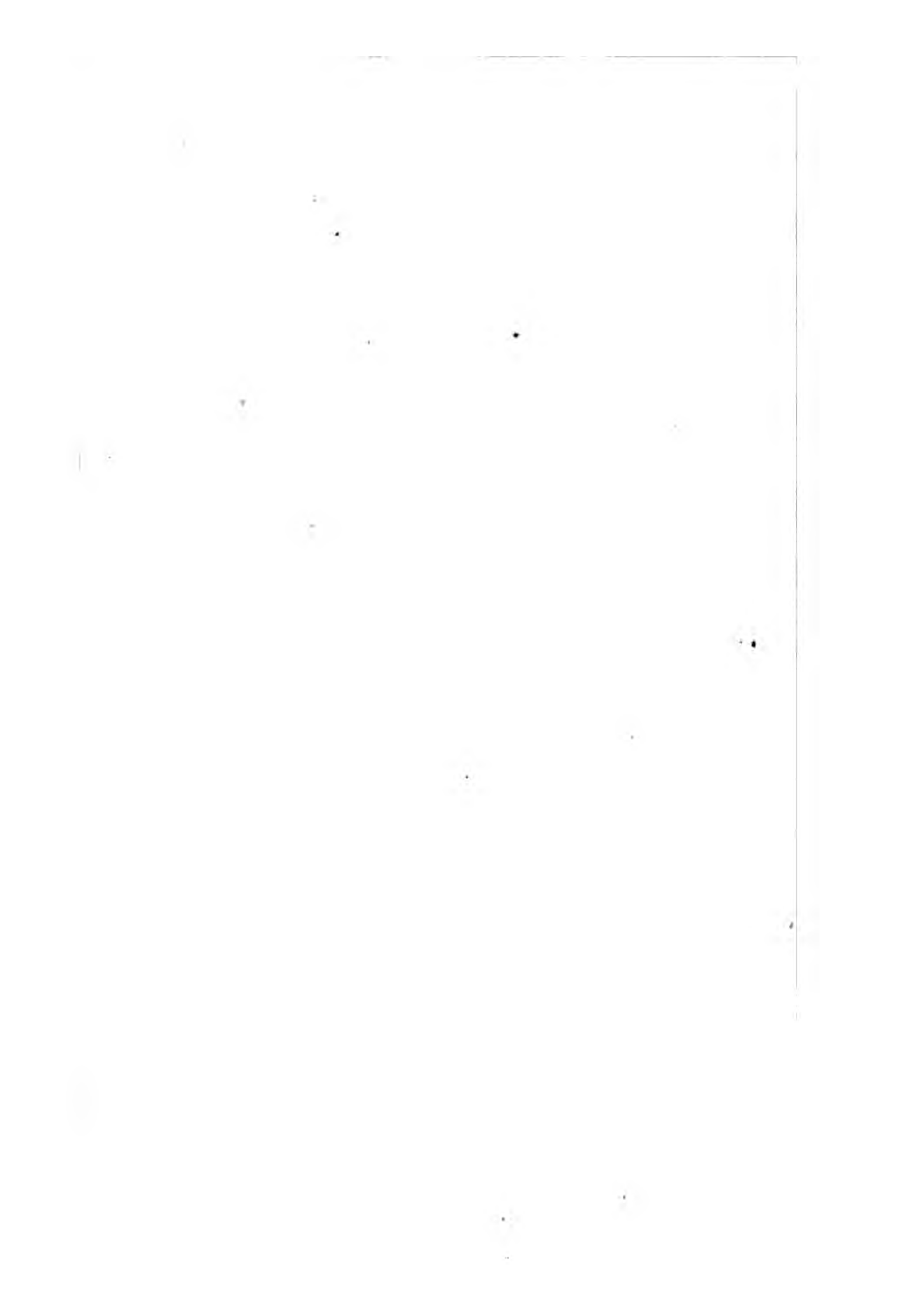


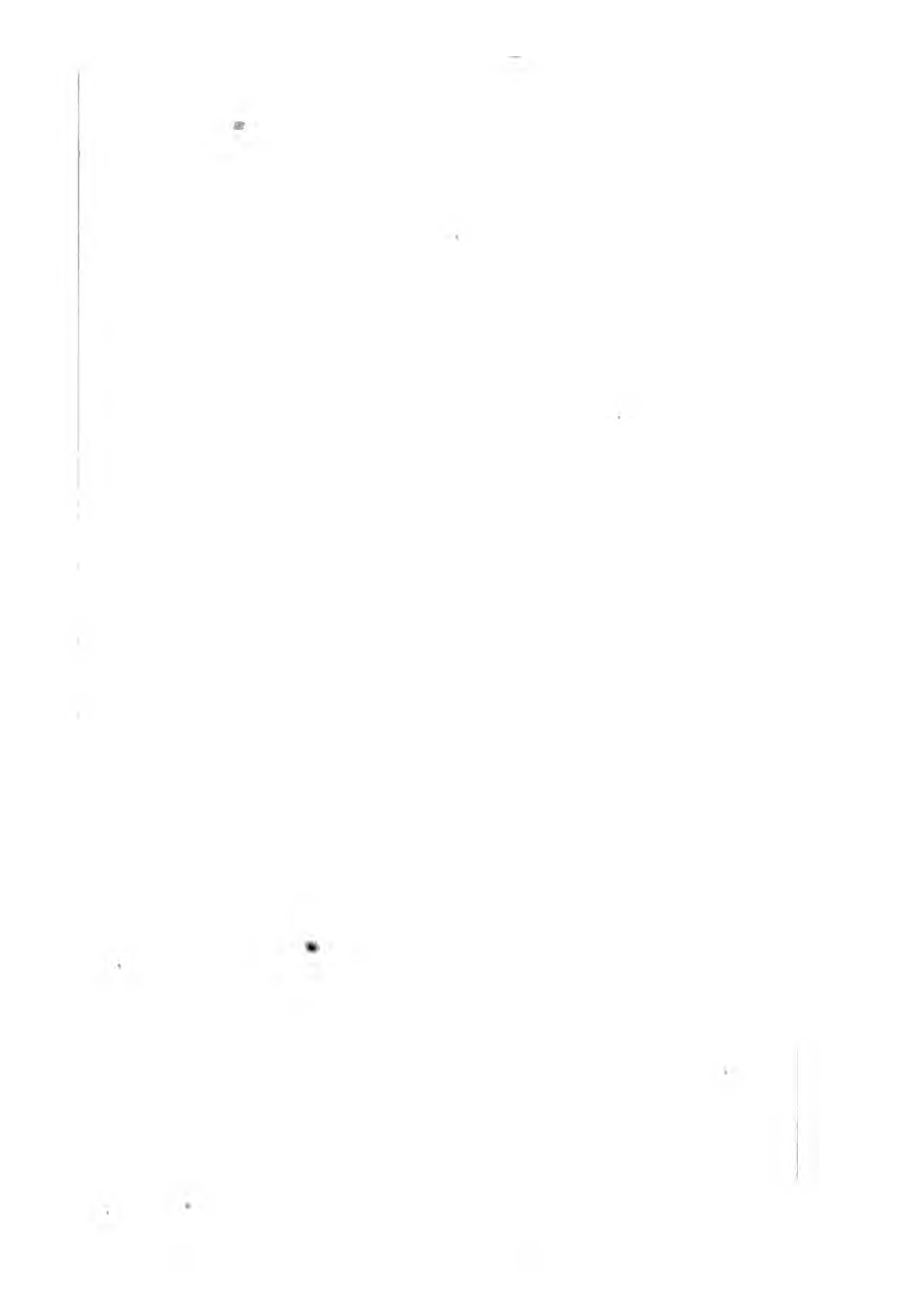












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