

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
George K. Burgess, Director

METHODS OF CALCULATING HOSIERY SHIPPING CASE DIMENSIONS

CIRCULAR OF THE BUREAU OF STANDARDS, No. 169

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METHODS OF CALCULATING HOSIERY SHIPPING CASE DIMENSIONS

ABSTRACT

Methods for calculating the dimensions of the most suitable arrangement of hosiery boxes which will require a minimum surface area of the shipping case, using both the proposed standard inside dimensions of hosiery boxes and boxes of other dimensions, are given. The development of the equations of a minimum surface of a hexahedron for a given volume is shown in the Appendix to be, when with sides a , b , and c , where k and c are constants, $c = \frac{2k}{k+1}$. Use is made of this in selecting the most economical case. The minimum areas are grouped and, in addition, the most common sizes are listed for the use of the manufacturer of all styles of hosiery. Considerations for the use of these dimensions are discussed. The saving resulting from the reduction of the surface area in the design of the case is the feature brought out by this paper.

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I. INTRODUCTION

The recent adoption by the hosiery association of standard sizes for hosiery boxes has encouraged similar efforts to establish dimensions for economical hosiery shipping cases. Hosiery after boxing is sent to the jobber or retail merchant in cases which contain 60, 100, or 120 dozen pairs to the case. The 60 and 120 dozen cases are in accordance with established practice, but the 100 dozen case results from a more recent trade practice. These cases are made of wood, plywood, or heavy corrugated fiber board, the thickness ranging from three-eighths to seven-eighths inch for wood. Since the material used for the cases introduces a substantial item into the operating expenses of a hosiery mill, any means of reducing this is economically desirable.

An excellent basis for consideration of hosiery problems has been established through the cooperation of the National Association of Hosiery and Underwear Manufacturers. They have appointed a research and standardization committee to cooperate and formulate the problems which are of importance to their industry. In addition, they have established a fellowship at this bureau to work on hosiery problems. This cooperation has proven quite valuable in the solution of this and other hosiery investigations.

II. PURPOSE

The purpose of this investigation was (*a*) to establish a system of arranging hosiery boxes in the case which will permit the most economical size of packing case; (*b*) to list the dimensions of this system of arrangement of boxes in layers for each type of standard hosiery boxes which will enable the adoption of standard packing cases.

III. MINIMUM SURFACE FOR A DEFINITE VOLUME

Since hosiery is usually packed in quantities of a definite number of dozens, little consideration need be given the fact that one large case would have less surface than a number of smaller cases which would hold the same number of boxes. The relation of the dimensions of the case, however, should be given detailed study.

In considering the area of hexahedron cases (six sided, all sides forming right angles), the minimum surface for a given volume is obtained by using the perfect cube shape.¹ The relation of the sides a , ka , ca , when they are not equal, for obtaining a minimum surface of a case is, when k and c are constants

$$c = \frac{2k}{k+1}$$

A full development of this is given in the Appendix.

IV. STANDARD HOSIERY BOX DIMENSIONS USED AS BASIS FOR CALCULATIONS

It was decided that the standard hosiery boxes as established by the Bureau of Standards and the National Association of Hosiery and Underwear Manufacturers should be used as the basis for all calculations.²

These standards are:

¹ See Appendix.

² B. S. Tech. Paper No. 253, Standardization of Hosiery Box Dimensions.

TABLE 1.—*Inside dimensions of boxes proposed as standards for ladies' hosiery*

[Accepted by National Association of Hosiery and Underwear Manufacturers]

THREE FOLD

Number	Width	Length	Height	Number of pairs in box	Number of folds of hosiery	Description of hosiery
1-----	6	9 $\frac{3}{8}$	3 $\frac{1}{4}$	3	3	All silk hose.
2-----	6	9 $\frac{3}{8}$	1	3	3	Boot silk hose.
3-----	6	9 $\frac{3}{8}$	1 $\frac{1}{8}$	6	3	Mercerized and boot silk.
4-----	6	9 $\frac{3}{8}$	3 $\frac{1}{4}$	12	3	Do.

HOSE FOLDED IN ANKLE

5-----	6	11 $\frac{1}{8}$	1 $\frac{1}{4}$	6	2	Sheer mercerized hose.
6-----	6	11 $\frac{1}{8}$	1 $\frac{1}{2}$	6	2	Boot silk, mercerized, and light-weight cotton.
7-----	6	11 $\frac{1}{8}$	1 $\frac{3}{4}$	6	2	Medium-weight cotton.
8-----	6	11 $\frac{1}{8}$	2 $\frac{1}{4}$	6	2	Heavy-weight cotton.
9-----	6	11 $\frac{1}{8}$	2 $\frac{1}{2}$	12	2	Mercerized and boot silk.
10-----	6	11 $\frac{1}{8}$	3	12	2	Light-weight cotton.
11-----	6	11 $\frac{1}{8}$	3 $\frac{1}{2}$	12	2	Medium-weight cotton.
12-----	6	11 $\frac{1}{8}$	4 $\frac{1}{8}$	12	2	Heavy-weight cotton.

HOSE FOLDED IN GORE OF HEEL

13-----	6	13 $\frac{1}{4}$	1 $\frac{1}{4}$	6	2	Sheer mercerized hose.
14-----	6	13 $\frac{1}{4}$	1 $\frac{1}{2}$	6	2	Boot silk, mercerized, and light-weight cotton.
15-----	6	13 $\frac{1}{4}$	1 $\frac{3}{4}$	6	2	Medium-weight cotton.
16-----	6	13 $\frac{1}{4}$	2 $\frac{1}{4}$	6	2	Heavy-weight cotton.
17-----	6	13 $\frac{1}{4}$	2 $\frac{1}{2}$	12	2	Boot silk and mercerized.
18-----	6	13 $\frac{1}{4}$	3	12	2	Light-weight cotton.
19-----	6	13 $\frac{1}{4}$	3 $\frac{1}{2}$	12	2	Medium-weight cotton.
20-----	6	13 $\frac{1}{4}$	4 $\frac{1}{8}$	12	2	Heavy-weight cotton.

TABLE 2.—*Inside dimensions of boxes proposed as standards for men's hosiery*

[Accepted by National Association of Hosiery and Underwear Manufacturers]

Number	Width	Length	Height	Number of pairs in box	Description of hosiery
1-----	4 $\frac{1}{8}$	13 $\frac{1}{4}$	1 $\frac{1}{4}$	6	Silk, mercerized, and light-weight cotton.
2-----	4 $\frac{1}{8}$	13 $\frac{1}{4}$	2 $\frac{1}{2}$	12	Do.
3-----	4 $\frac{1}{8}$	13 $\frac{1}{4}$	3	12	Heavy mercerized and cotton.

TABLE 3.—*Inside dimensions of boxes for proposed improved method of packing men's hosiery*

[Accepted by National Association of Hosiery and Underwear Manufacturers]

Number	Width	Length	Height	Number of pairs in box	Description of hosiery
1-----	3 $\frac{1}{2}$	8 $\frac{1}{2}$	1 $\frac{1}{4}$	6	Silk hose.
2-----	3 $\frac{1}{2}$	8 $\frac{1}{2}$	2	6	Mercerized and cotton hose.

TABLE 4.—*Inside dimensions of boxes proposed as standards for children's (ribbed) hosiery*

[Accepted by National Association of Hosiery and Underwear Manufacturers]

BOXES DESIGNED FOR MEDIUM-WEIGHT HOSEIERY

Number	Size of hose	Width	Length	Height	Number of pairs to a box and type of box
		<i>Inches</i>	<i>Inches</i>	<i>Inches</i>	
1.....	4	2 $\frac{3}{8}$	5	1 $\frac{1}{2}$	
2.....	5	3 $\frac{3}{4}$	5 $\frac{1}{4}$	1 $\frac{3}{4}$	
3.....	6	3 $\frac{1}{2}$	7 $\frac{1}{4}$	1 $\frac{1}{8}$	
4.....	7	3 $\frac{1}{8}$	8 $\frac{3}{4}$	2	
5.....	8	3 $\frac{1}{8}$	10 $\frac{1}{2}$	2	
6.....	9	4 $\frac{1}{4}$	11 $\frac{3}{4}$	2 $\frac{1}{4}$	
7.....	4	4 $\frac{3}{4}$	5	1 $\frac{1}{2}$	
8.....	5	5 $\frac{1}{2}$	5 $\frac{3}{4}$	1 $\frac{3}{4}$	
9.....	6	6 $\frac{1}{4}$	7 $\frac{1}{4}$	1 $\frac{1}{8}$	
10.....	7	7	8 $\frac{3}{4}$	2	
11.....	8	7 $\frac{3}{4}$	10 $\frac{1}{4}$	2	
12.....	9	8 $\frac{1}{2}$	11 $\frac{3}{4}$	2 $\frac{1}{4}$	
13.....	4	2 $\frac{3}{8}$	5	3 $\frac{1}{4}$	
14.....	5	2 $\frac{3}{4}$	5 $\frac{3}{4}$	3 $\frac{1}{2}$	
15.....	6	3 $\frac{1}{8}$	7 $\frac{1}{4}$	3 $\frac{3}{4}$	
16.....	7	3 $\frac{1}{2}$	8 $\frac{3}{4}$	4	
17.....	8	3 $\frac{1}{8}$	10 $\frac{1}{4}$	4 $\frac{1}{4}$	
18.....	9	4 $\frac{1}{4}$	11 $\frac{3}{4}$	4 $\frac{1}{2}$	
19.....	4	4 $\frac{3}{4}$	5	3 $\frac{1}{4}$	
20.....	5	5 $\frac{1}{2}$	5 $\frac{3}{4}$	3 $\frac{1}{2}$	
21.....	6	6 $\frac{1}{4}$	7 $\frac{1}{2}$	3 $\frac{3}{4}$	
22.....	7	7	8 $\frac{3}{4}$	4	
23.....	8	7 $\frac{3}{4}$	10 $\frac{1}{2}$	4 $\frac{1}{4}$	
24.....	9	8 $\frac{1}{2}$	11 $\frac{1}{4}$	4 $\frac{1}{2}$	

The children's boxes, because of their wide diversity of sizes, have not been included in the present paper. However, the plan presented in this paper may be followed for obtaining the dimensions of the most economical case for each of these sizes.

V. METHOD OF CALCULATING THE MOST ECONOMICAL DIMENSIONS

Since the proposed standards listed in Tables 1 to 4 are inside dimensions of hosiery boxes, an addition was made to each dimension to take care of the thickness of the cardboard and the covering paper. This thickness is a variable, because of the different kinds of cardboard in use and the difference of the covering paper. In these calculations the maximum thickness of the boxes available has been used.

The calculations in Tables 5 to 18, inclusive, have been made as follows:

$A = \text{width of box} + 4 \text{ thicknesses of cardboard, etc.} ; \times \text{the number of widths in a layer } (C).$

$B = \text{length of box} + 4 \text{ thicknesses of cardboard, etc.} ; \times \text{the number of lengths in a layer } (D).$

$C = \text{number of widths of boxes in a layer.}$

$D = \text{number of lengths of boxes in a layer.}$

$E = (C \times D)$ = total boxes in a layer.

$$F = \frac{120}{E} = \text{number of complete layers if boxes contain one dozen hosiery each (see } G\text{).}$$

$\left. \begin{array}{l} 60 \text{ or} \\ 100 \text{ or} \\ 120 \end{array} \right\} \text{ dozen of hosiery in case}$

G = number of boxes necessary to hold one dozen hosiery.

$H = (F \times G)$ = number of complete layers.

$$I = \frac{J}{E} = \text{number of dozens of hose (see } G\text{ to convert to boxes) remaining over the complete layers.}$$

$\left. \begin{array}{l} 60 \text{ or} \\ 100 \text{ or} \\ 120 \end{array} \right\} - (H \times E)$

$J = (I \times G)$ = number of boxes remaining over the complete layers.

$$K = \frac{J}{E} = \text{number of layers necessary to take care of remaining boxes.}$$

L = number of boxes over the extra layer or layers, when division $\frac{J}{E}$ is not a whole number.

M = extra layer necessary to take care of these extra boxes (see N).

$N = (E - L)$ = number of empty boxes added to make the layer complete. These are known as "empties."

O = height of box + 2 thicknesses cardboard and covering paper.

$P = (H + K + M)$ = total number of layers.

Q = height of box + 2 thicknesses of cardboard and covering paper \times number of layers.

$R = \frac{2(A \times B) + 2(A \times Q) + 2(B \times Q)}{144}$ = area of surface of the arrangement or pile of boxes in square feet.

S_a, S_b, S_c , etc., are the relative ratings of these areas based such that the lowest area for that type is 100.

Groups I, II, III, IV, etc., in the tables show the combinations which occur when the width and length are varied to form the layers of different dimensions. Groups a, b, c , etc., show the calculations for the various heights of boxes.

TABLE 5.—*Ladies' hosiery (3 folds), method of packing 60 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	
I.	18.552	19.118	3	2	6	10	4	40	0	0	0	0	0	0	0	0	0	40	33.650	22.6	103.2	106.4	
	18.552	19.118	3	2	6	10	4	40	0	0	0	0	0	0	0	0	1.092	40	43.650	27.8	106.4	104.4	
	18.552	19.118	3	2	6	10	1	10	0	0	0	0	0	0	0	0	1.907	20	39.340	25.5	103.7	103.7	
	18.552	19.118	3	2	6	10	1	10	0	0	0	0	0	0	0	0	3.842	10	38.420	25.0	103.7	103.7	
II.	18.552	28.677	3	3	9	6	4	24	6	24	2	6	1	3	3	3	3	.842	27	22.734	22.3	101.8	102.3
	18.552	28.677	3	3	9	6	4	24	6	24	2	6	1	3	3	3	1.092	14	26.484	26.7	101.8	104.4	
	18.552	28.677	3	3	9	6	2	12	6	12	12	6	1	3	6	1	1.967	14	27.538	25.5	101.8	104.4	
	18.552	28.677	3	3	9	6	2	12	6	12	12	6	1	3	6	1	3.842	7	26.894	25.0	101.8	103.7	
III.	18.552	38.236	3	4	12	5	4	20	0	0	0	0	0	0	0	0	.842	20	16.840	23.1	105.5	103.8	
	18.552	38.236	3	4	12	5	4	20	0	0	0	0	0	0	0	0	1.092	20	21.840	27.1	104.1	104.1	
	18.552	38.236	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.967	10	19.670	25.4	103.7	103.7	
	18.552	38.236	3	4	12	5	1	5	0	0	0	0	0	0	0	0	3.842	5	19.210	25.0	103.7	103.7	
IV.	24.736	19.118	4	2	8	7	4	28	4	16	2	0	0	0	0	0	.842	30	25.260	21.9	100.0	101.5	
	24.736	19.118	4	2	8	7	4	28	4	16	2	0	0	0	0	0	1.092	30	32.760	26.5	101.5	100.4	
	24.736	19.118	4	2	8	7	1	7	4	4	0	1	0	0	0	0	1.987	15	26.505	24.5	103.0	103.0	
	24.736	19.118	4	2	8	7	1	7	4	4	0	1	0	0	0	0	3.842	8	30.736	25.3	103.0	103.0	
V.	24.736	28.677	4	3	12	5	4	20	0	0	0	0	0	0	0	0	.842	20	16.840	22.3	101.8	100.0	
	24.736	28.677	4	3	12	5	4	20	0	0	0	0	0	0	0	0	1.092	20	21.840	26.1	101.8	100.0	
	24.736	28.677	4	3	12	5	2	10	5	0	0	0	0	0	0	0	1.967	10	19.670	24.4	101.8	100.0	
	24.736	28.677	4	3	12	5	1	5	0	0	0	0	0	0	0	0	3.842	5	19.210	24.1	101.8	100.0	
VI.	24.736	38.236	4	4	16	3	4	12	12	48	3	0	0	0	0	0	.842	16	12.630	24.3	110.9	105.0	
	24.736	38.236	4	4	16	3	2	16	12	48	3	0	0	0	0	0	1.092	16	16.330	27.4	110.2	110.2	
	24.736	38.236	4	4	16	3	1	16	12	24	1	8	1	0	0	0	1.967	8	15.736	26.9	110.4	110.4	
	24.736	38.236	4	4	16	3	1	16	12	0	12	1	4	1	0	0	3.842	4	15.388	23.6	110.4	110.4	
VII.	30.920	19.118	5	2	10	6	4	24	0	0	0	0	0	0	0	0	.842	24	20.208	22.2	101.3	101.1	
	30.920	19.118	5	2	10	6	2	12	0	0	0	0	0	0	0	0	1.092	12	23.604	24.6	101.1	100.8	
	30.920	19.118	5	2	10	6	1	6	0	0	0	0	0	0	0	0	1.967	12	23.056	24.2	100.4	100.4	
	30.920	19.118	5	2	10	6	1	6	0	0	0	0	0	0	0	0	3.842	6	23.056	24.2	100.4	100.4	
VIII.	30.920	28.677	5	3	15	4	4	16	0	0	0	0	0	0	0	0	.842	16	13.472	23.5	107.3	102.6	
	30.920	28.677	5	3	15	4	4	16	0	0	0	0	0	0	0	0	1.092	16	17.472	26.8	107.3	106.7	
	30.920	28.677	5	3	15	4	2	8	0	0	0	0	0	0	0	0	1.967	8	15.736	25.3	106.7	106.7	
	30.920	28.677	5	3	15	4	2	8	1	4	0	0	0	0	0	0	3.842	4	15.388	25.0	106.7	106.7	
IX.	30.920	38.236	5	4	20	3	4	12	0	0	0	0	0	0	0	0	.842	12	10.104	26.1	119.2	113.9	
	30.920	38.236	5	4	20	3	4	12	0	0	0	0	0	0	0	0	1.092	12	13.104	29.0	113.9	113.9	
	30.920	38.236	5	4	20	3	2	6	1	3	0	0	0	0	0	0	1.967	6	11.802	27.8	113.9	113.9	
	30.920	38.236	5	4	20	3	2	1	3	0	0	0	0	0	0	0	3.842	3	11.526	27.5	114.1	114.1	

HOSIERY SHIPPING CASE DIMENSIONS

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TABLE 6.—*Ladies' hosiery (3 folds), method of packing 100 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>
<i>a</i>	18.552	19.118	3	2	6	16	4	64	4	10	2	4	1	2	0.842	67	56.414	34.4	10.6	-	-	-
<i>b</i>	18.552	19.118	3	2	6	16	4	64	4	16	2	4	1	2	1.002	67	73.164	43.2	-	117.7	-	-
<i>c</i>	18.552	19.118	3	2	6	16	2	32	4	8	1	4	1	4	1.907	66.878	39.9	-	-	115.0	-	-
<i>d</i>	18.552	19.118	3	2	6	16	2	16	4	0	4	1	1	2	3.842	17	65.314	-	-	-	113.0	-
<i>e</i>	18.552	28.677	3	3	9	11	4	44	1	4	0	4	1	5	.842	45	37.890	32.2	103.5	-	-	-
<i>f</i>	18.552	28.677	3	3	9	11	4	44	1	4	0	4	1	5	1.002	45	49.146	39.6	-	107.9	-	-
<i>g</i>	18.552	28.677	3	3	9	11	4	44	1	4	0	4	1	5	1.907	23	46.241	39.6	-	106.9	-	-
<i>h</i>	18.552	28.677	3	3	9	11	1	11	1	0	1	1	1	8	3.842	12	46.104	37.6	-	-	108.7	-
<i>i</i>	18.552	28.677	3	3	9	11	1	11	1	0	1	1	1	8	.842	34	28.623	32.4	104.2	-	-	-
<i>j</i>	18.552	38.236	3	4	12	8	4	32	4	16	1	4	1	8	1.002	34	17.128	30.1	-	106.5	-	-
<i>k</i>	18.552	38.236	3	4	12	8	4	32	4	16	1	4	1	8	1.907	17	33.439	33.439	-	104.3	-	-
<i>l</i>	18.552	38.236	3	4	12	8	4	32	4	16	0	8	1	8	3.842	9	34.575	37.2	-	-	107.5	-
<i>m</i>	24.736	19.118	4	2	8	12	4	48	4	16	2	0	0	0	.842	50	42.100	32.2	103.5	-	-	-
<i>n</i>	24.736	19.118	4	2	8	12	4	48	4	16	2	0	0	0	1.002	50	51.060	39.8	-	106.4	-	-
<i>o</i>	24.736	19.118	4	2	8	12	2	24	4	8	1	0	0	0	1.907	25	49.176	36.5	-	105.2	-	-
<i>p</i>	24.736	19.118	4	2	8	12	1	12	4	4	0	4	1	4	3.842	13	49.946	37.0	-	-	106.9	-
<i>q</i>	24.736	28.677	4	3	12	8	4	32	4	16	1	4	1	8	.842	34	28.623	31.1	100.0	-	-	-
<i>r</i>	24.736	28.677	4	3	12	8	4	32	4	16	1	4	1	8	1.002	34	37.128	33.439	101.9	-	-	-
<i>s</i>	24.736	28.677	4	3	12	8	2	16	4	8	0	8	1	8	1.907	17	33.439	34.575	-	100.0	-	-
<i>t</i>	24.736	28.677	4	3	12	8	2	16	4	8	0	8	1	8	3.842	9	34.575	35.7	-	-	102.6	-
<i>u</i>	24.736	38.236	4	4	16	6	4	24	4	16	1	0	0	0	.842	25	21.050	31.5	101.3	-	-	-
<i>v</i>	24.736	38.236	4	4	16	6	4	24	4	16	1	0	0	0	1.002	25	27.300	37.0	-	102.3	-	-
<i>w</i>	24.736	38.236	4	4	16	6	4	24	4	16	1	0	0	0	1.907	13	25.571	35.7	-	102.3	-	-
<i>x</i>	24.736	38.236	4	4	16	6	4	24	4	16	1	0	0	0	3.842	12	26.894	34.575	-	106.1	-	-

TABLE 6.—*Ladies' hosiery (3 folds), method of packing 100 dozen to case—Continued*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>
VII	30.920	19.118	5	2	10	10	4	40	0	0	0	0	0	0	0	0.842	40	33.680	31.6	101.6		
	30.920	19.118	5	2	10	10	4	40	0	0	0	0	0	0	0	1.092	40	43.680	35.6	104.9		
	30.920	19.118	5	2	10	10	1	20	0	0	0	0	0	0	0	1.967	20	39.320	35.6	102.6		
	30.920	19.118	5	2	10	10	1	20	0	0	0	0	0	0	0	3.842	10	38.420	34.9	100.9		
VIII	30.920	28.677	5	3	15	6	4	24	10	40	2	10	1	5	5	.842	27	22.734	31.1	100.0		
	30.920	28.677	5	3	15	6	4	24	10	40	2	10	1	5	5	1.092	27	29.484	38.7	100.0		
	30.920	28.677	5	3	15	6	6	2	12	10	10	1	5	10	1	1.967	14	27.638	35.1	101.2		
	30.920	28.677	5	3	15	6	1	6	10	10	0	10	1	5	5	3.842	7	26.804	34.6	100.0		
IX	30.920	38.236	5	4	20	5	4	20	0	0	0	0	0	0	0	1.842	20	16.840	32.6	104.8		
	30.920	38.236	5	4	20	5	4	20	0	0	0	0	0	0	0	1.092	20	21.840	37.4	101.7		
	30.920	38.236	5	4	20	5	2	20	0	0	0	0	0	0	0	1.967	10	19.670	35.3	100.9		
	30.920	38.236	5	4	20	5	1	6	0	0	0	0	0	0	0	3.842	5	19.210	34.9	100.9		
X	37.104	19.118	6	2	12	8	4	32	4	16	1	4	1	8	8	1.092	34	28.628	32.2	103.5		
	37.104	19.118	6	2	12	8	4	32	4	16	1	4	1	8	8	1.967	34	37.128	38.9	106.0		
	37.104	19.118	6	2	12	8	2	16	4	8	0	8	1	4	1	1.967	17	33.439	35.9	105.5		
	37.104	19.118	6	2	12	8	1	8	4	4	0	4	1	8	8	3.842	9	34.578	36.9	106.6		
XI	37.104	28.677	6	3	18	5	4	20	10	40	2	4	1	14	14	.842	23	19.336	32.5	104.5		
	37.104	28.677	6	3	18	5	4	20	10	40	2	4	1	14	14	1.092	23	25.116	37.7	102.7		
	37.104	28.677	6	3	18	5	2	10	10	20	1	2	1	16	16	1.967	12	23.604	34.9	100.6		
	37.104	28.677	6	3	18	5	1	5	10	10	0	10	1	8	8	3.842	6	22.052	36.3	104.9		
XII	37.104	38.236	6	4	24	4	4	16	4	16	0	16	1	8	8	.842	17	14.314	34.7	111.6		
	37.104	38.236	6	4	24	4	4	16	4	16	0	16	1	8	8	1.092	17	18.564	30.1	103.5		
	37.104	38.236	6	4	24	4	2	8	4	8	0	8	1	16	16	1.967	9	17.703	38.2	100.6		
	37.104	38.236	6	4	24	4	1	4	4	4	0	4	1	20	20	3.842	5	19.210	39.8	115.0		

TABLE 7.—*Ladies' hosiery (3 folds), improved method of packing 120 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>
I	18.552	19.118	3	2	6	20	4	80	0	0	0	0	0	0	0	0.842	80	67.360	40.2	116.2		
	18.552	19.118	3	2	6	20	4	80	0	0	0	0	0	0	0	1.092	80	87.360	40.6	122.8		
	18.552	19.118	3	2	6	20	2	40	0	0	0	0	0	0	0	1.967	40	78.680	46.1	120.1		
	18.552	19.118	3	2	6	20	1	20	0	0	0	0	0	0	0	3.842	20	76.840	45.1	119.1		

HOSIERY SHIPPING CASE DIMENSIONS

TABLE 8.—*Ladies' hosiery* (2 folds), folded in ankle, 60 dozen to case

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S_a	S_b	S_c	S_d	S_e	S_f	S_g	S_h
a	18.552	24.118	3	2	6	10	2	20	0	0	0	0	0	0	1.342	20	26.840	22.1	100.9	102.4	-	-	-	-	
b	18.552	24.118	3	2	6	10	2	20	0	0	0	0	0	0	1.592	20	31.840	25.1	-	-	-	-	-	-	
c	18.552	24.118	3	2	6	10	2	20	0	0	0	0	0	0	1.842	20	36.840	28.1	-	-	-	-	-	-	
d	18.552	24.118	3	2	6	10	2	20	0	0	0	0	0	0	2.342	20	46.840	34.0	-	-	-	-	-	-	
e	18.552	24.118	3	2	6	10	1	10	0	0	0	0	0	0	2.592	10	25.920	21.6	-	-	-	-	-	-	
f	18.552	24.118	3	2	6	10	1	10	0	0	0	0	0	0	3.062	10	30.920	24.5	-	-	-	-	-	-	
g	18.552	24.118	3	2	6	10	1	10	0	0	0	0	0	0	3.692	10	35.920	27.5	-	-	-	-	-	-	
h	18.552	24.118	3	2	6	10	1	10	0	0	0	0	0	0	4.467	10	44.670	32.7	-	-	-	-	-	-	
a	18.552	36.177	3	3	9	6	2	12	6	12	1	3	1	6	1.342	14	18.788	23.6	107.8	-	-	-	-	-	-
b	18.552	36.177	3	3	9	6	2	12	6	12	1	3	1	6	1.592	14	22.238	26.3	-	-	-	-	-	-	
c	18.552	36.177	3	3	9	6	2	12	6	12	1	3	1	6	1.842	14	25.788	28.9	-	-	-	-	-	-	
d	18.552	36.177	3	3	9	6	2	12	6	12	1	3	1	6	2.342	14	32.788	34.3	-	-	-	-	-	-	
e	18.552	36.177	3	3	9	6	1	6	6	6	0	6	1	3	2.592	7	18.144	23.1	-	-	-	-	-	-	
f	18.552	36.177	3	3	9	6	1	6	6	6	0	6	1	3	3.062	7	21.644	25.6	-	-	-	-	-	-	
g	18.552	36.177	3	3	9	6	1	6	6	6	0	6	1	3	3.692	7	25.144	28.4	-	-	-	-	-	-	
h	18.552	36.177	3	3	9	6	1	6	6	6	0	6	1	3	4.467	7	31.269	33.1	-	-	-	-	-	-	
a	18.552	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.342	10	13.420	24.9	113.7	-	-	-	-	-	-
b	18.552	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.592	10	15.420	27.2	-	-	-	-	-	-	
c	18.552	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.842	10	18.420	29.9	-	-	-	-	-	-	
d	18.552	48.236	3	4	12	5	2	10	0	0	0	0	0	0	2.342	10	23.420	34.2	-	-	-	-	-	-	
e	18.552	48.236	3	4	12	5	2	10	0	0	0	0	0	0	2.592	5	12.920	24.5	-	-	-	-	-	-	
f	18.552	48.236	3	4	12	5	1	5	0	0	0	0	0	0	3.062	5	15.400	26.8	-	-	-	-	-	-	
g	18.552	48.236	3	4	12	5	1	5	0	0	0	0	0	0	3.692	5	17.900	29.1	-	-	-	-	-	-	
h	18.552	48.236	3	4	12	5	1	5	0	0	0	0	0	0	4.467	5	22.335	33.1	-	-	-	-	-	-	
a	24.736	24.118	4	2	8	7	2	14	4	8	1	0	0	0	1.342	15	20.130	21.9	-	-	-	-	-	-	
b	24.736	24.118	4	2	8	7	2	14	4	8	1	0	0	0	1.592	15	23.880	34.5	-	-	-	-	-	-	
c	24.736	24.118	4	2	8	7	2	14	4	8	1	0	0	0	1.842	15	27.630	32.1	-	-	-	-	-	-	
d	24.736	24.118	4	2	8	7	2	14	4	8	1	0	0	0	2.342	15	33.130	32.1	-	-	-	-	-	-	
e	24.736	24.118	4	2	8	7	2	14	4	8	1	0	0	0	2.592	8	20.736	22.4	-	-	-	-	-	-	
f	24.736	24.118	4	2	8	7	1	7	4	4	0	1	4	4	3.062	8	24.736	25.1	-	-	-	-	-	-	
g	24.736	24.118	4	2	8	7	1	7	4	4	0	1	4	4	3.692	8	28.736	27.8	-	-	-	-	-	-	
h	24.736	24.118	4	2	8	7	1	7	4	4	0	1	4	4	4.467	8	35.736	32.5	-	-	-	-	-	-	
a	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.342	10	13.420	23.8	108.7	-	-	-	-	-	-
b	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.592	10	15.920	25.9	-	-	-	-	-	-	
c	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.842	10	18.420	28.1	-	-	-	-	-	-	
d	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	2.342	10	23.420	22.9	-	-	-	-	-	-	
e	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	2.592	10	12.920	23.4	-	-	-	-	-	-	
f	24.736	36.177	4	3	12	5	1	5	0	0	0	0	0	0	3.062	5	15.400	25.6	-	-	-	-	-	-	
g	24.736	36.177	4	3	12	5	1	5	0	0	0	0	0	0	3.692	5	17.900	27.7	-	-	-	-	-	-	
h	24.736	36.177	4	3	12	5	1	5	0	0	0	0	0	0	4.467	5	22.335	31.3	-	-	-	-	-	-	
a	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.342	10	13.420	23.8	108.7	-	-	-	-	-	-
b	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.592	10	15.420	27.2	-	-	-	-	-	-	
c	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	1.842	10	18.420	29.9	-	-	-	-	-	-	
d	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	2.342	10	23.420	34.2	-	-	-	-	-	-	
e	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	2.592	5	12.920	24.5	-	-	-	-	-	-	
f	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	3.062	5	15.400	26.8	-	-	-	-	-	-	
g	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	3.692	5	17.900	29.1	-	-	-	-	-	-	
h	24.736	48.236	3	4	12	5	2	10	0	0	0	0	0	0	4.467	5	22.335	31.3	-	-	-	-	-	-	
a	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.342	10	13.420	23.8	108.7	-	-	-	-	-	-
b	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.592	10	15.920	25.9	-	-	-	-	-	-	
c	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	1.842	10	18.420	28.1	-	-	-	-	-	-	
d	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	2.342	10	23.420	22.9	-	-	-	-	-	-	
e	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	2.592	10	12.920	23.4	-	-	-	-	-	-	
f	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	3.062	5	15.400	25.6	-	-	-	-	-	-	
g	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	3.692	5	17.900	27.7	-	-	-	-	-	-	
h	24.736	36.177	4	3	12	5	2	10	0	0	0	0	0	0	4.467	5	22.335	31.3	-	-	-	-	-	-	

TABLE 8.—*Ladies hosiery (2 folds), folded in ankle, 60 dozen to case—Continued*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>
<i>a</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	1.342	5	6.710	32.8	149.8	140.0	140.0					
<i>b</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	1.592	5	7.960	34.3	132.6							
<i>c</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	1.812	5	9.210	35.8								
<i>d</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	2.342	5	11.710	38.7								
<i>e</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	2.592	3	7.776	34.1								
<i>f</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	3.092	3	9.276	35.9								
<i>g</i>	37.104	48.236	6	4	24	2	2	4	12	24	1	0	0	0	3.592	3	10.776	37.6								
<i>h</i>	37.104	48.236	6	4	24	2	1	2	12	12	0	0	0	0	4.467	3	13.401	40.7								
																										132.1

TABLE 9.—*Ladies' hosiery (2 folds), folded in ankle, 100 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>
<i>a</i>	18.512	24.118	3	2	6	16	2	32	4	8	1	2	1	4	1.342	34	45.628	33.3	107.8							
<i>b</i>	18.512	24.118	3	2	6	16	2	32	4	8	1	2	1	4	1.592	34	54.128	38.3								
<i>c</i>	18.512	24.118	3	2	6	16	2	32	4	8	1	2	1	4	1.842	34	62.628	43.3								
<i>d</i>	18.512	24.118	3	2	6	16	2	32	4	8	1	2	1	4	2.342	34	79.628	53.4								
<i>e</i>	18.512	24.118	3	2	6	16	1	16	4	0	4	0	4	1	2.592	17	44.064	32.3								
<i>f</i>	18.512	24.118	3	2	6	16	1	16	4	0	4	0	4	1	3.092	17	52.664	47.4								
<i>g</i>	18.512	24.118	3	2	6	16	1	16	4	4	0	4	1	2	3.592	17	61.064	42.4								
<i>h</i>	18.512	24.118	3	2	6	16	1	16	4	4	0	4	1	2	4.467	17	75.039	51.2								
<i>i</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	1.342	23	30.866	32.8	106.1	107.2						
<i>j</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	1.592	23	36.616	37.2								
<i>k</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	1.842	23	42.366	41.5								
<i>l</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	2.342	23	53.866	50.3								
<i>m</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	2.592	17	61.104	53.0								
<i>n</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	3.092	17	75.039	51.2								
<i>o</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	3.592	17	81.104	75.0								
<i>p</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	4.467	17	93.104	87.5								
<i>q</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	5.092	17	107.104	93.0								
<i>r</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	5.592	17	123.104	110.3								
<i>s</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	6.092	17	137.104	127.5								
<i>t</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	6.592	17	151.104	142.1								
<i>u</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	7.092	17	165.104	150.1								
<i>v</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	7.592	17	179.104	169.1								
<i>w</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	8.092	17	193.104	180.3								
<i>x</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	8.592	17	207.104	197.2								
<i>y</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	9.092	17	221.104	211.4								
<i>z</i>	18.512	36.177	3	3	9	11	2	22	1	2	0	2	1	7	9.592	17	235.104	222.6								
<i>aa</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	1.342	17	22.814	33.6	108.7	107.8						
<i>ab</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	1.592	17	27.064	37.5								
<i>ac</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	1.842	17	31.314	41.5								
<i>ad</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	2.342	17	39.814	49.3								
<i>ae</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	2.592	17	47.328	34.1								
<i>af</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	3.092	17	57.328	38.2								
<i>ag</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	3.592	17	67.328	42.4								
<i>ah</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	4.467	17	77.328	49.7								
<i>ai</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	5.092	17	87.328	50.1								
<i>aj</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	5.592	17	97.328	59.1								
<i>ak</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	6.092	17	107.328	60.1								
<i>al</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	6.592	17	117.328	69.1								
<i>am</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	7.092	17	127.328	78.2								
<i>an</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	7.592	17	137.328	87.2								
<i>ao</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	8.092	17	147.328	96.1								
<i>ap</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	8.592	17	157.328	105.7								
<i>aq</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	9.092	17	167.328	114.7								
<i>ar</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	9.592	17	177.328	123.6								
<i>as</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	10.092	17	187.328	132.6								
<i>at</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	10.592	17	197.328	141.7								
<i>au</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	11.092	17	207.328	150.7								
<i>av</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	11.592	17	217.328	160.7								
<i>aw</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	12.092	17	227.328	170.7								
<i>ax</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	12.592	17	237.328	180.7								
<i>ay</i>	18.512	48.236	3	4	12	8	2	16	4	8	0	8	1	4	13.092	17	247.328	190.7								
<i>az</i>	18.512	48.236	3	4	12	8	2</td																			

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TABLE 9.—*Ladies' hosiery (2 folds), folded in ankle, 100 dozen to case—Continued*

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>	
<i>a</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	1.342	17	22.814	31.8	102.9	102.0	101.6	101.6	101.6	101.6	101.6	
<i>b</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	1.592	17	27.064	35.4	39.1	31.314	39.1	31.314	39.1	31.314		
<i>c</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	1.842	17	30.914	46.3	2.342	17	30.914	2.342	17	30.914	2.342	
<i>d</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	2.342	17	29.828	32.3	3.092	9	29.828	3.092	9	29.828	3.092	
<i>X</i>	<i>e</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	2.692	9	27.828	36.1	3.092	9	27.828	3.092	9	27.828	3.092
<i>f</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	3.092	9	32.328	40.0	3.092	9	32.328	3.092	9	32.328	3.092	
<i>g</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	3.592	9	36.0	40.6	4.467	9	40.6	4.467	9	40.6	4.467	9
<i>h</i>	37.104	24.118	6	2	12	8	2	16	4	8	0	8	1	4	4.467	9	40.6	46.6	4.467	9	46.6	4.467	9	46.6	4.467	9
<i>a</i>	37.104	36.177	6	3	18	5	2	10	10	20	1	2	1	16	1.342	12	16.104	35.0	113.3	100.8	100.8	100.8	100.8	100.8	100.8	100.8
<i>b</i>	37.104	36.177	6	3	18	5	2	10	10	20	1	2	1	16	1.592	12	19.104	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
<i>c</i>	37.104	36.177	6	3	18	5	2	10	10	20	1	2	1	16	1.842	12	22.104	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	
<i>d</i>	37.104	36.177	6	3	18	5	2	10	10	20	1	2	1	16	2.342	12	28.104	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	
<i>X</i>	<i>e</i>	37.104	36.177	6	3	18	5	1	5	10	10	0	10	1	8	2.692	6	16.552	34.5	3.092	6	16.552	3.092	6	16.552	3.092
<i>f</i>	37.104	36.177	6	3	18	5	1	5	10	10	0	10	1	8	3.092	6	21.652	37.5	3.092	6	21.652	3.092	6	21.652	3.092	
<i>g</i>	37.104	36.177	6	3	18	5	1	5	10	10	0	10	1	8	3.592	6	26.802	45.9	4.467	6	40.6	4.467	6	40.6	4.467	6
<i>h</i>	37.104	36.177	6	3	18	5	1	5	10	10	0	10	1	8	4.467	6	46.6	103.1	4.467	6	46.6	4.467	6	46.6	4.467	6
<i>a</i>	37.104	48.236	6	4	24	4	2	8	4	8	0	8	1	16	1.342	9	12.076	39.2	126.8	126.8	126.8	126.8	126.8	126.8	126.8	
<i>b</i>	37.104	48.236	6	4	24	4	2	8	4	8	0	8	1	16	1.592	9	14.328	41.8	120.4	120.4	120.4	120.4	120.4	120.4	120.4	
<i>c</i>	37.104	48.236	6	4	24	4	2	8	4	8	0	8	1	16	1.842	9	16.578	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	
<i>d</i>	37.104	48.236	6	4	24	4	2	8	4	8	0	8	1	16	2.342	9	21.078	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	
<i>X</i>	<i>e</i>	37.104	48.236	6	4	24	4	1	4	4	4	0	4	1	20	2.692	5	12.960	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
<i>f</i>	37.104	48.236	6	4	24	4	1	4	4	4	0	4	1	20	3.092	5	17.960	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	
<i>g</i>	37.104	48.236	6	4	24	4	1	4	4	4	0	4	1	20	3.592	5	17.960	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	
<i>h</i>	37.104	48.236	6	4	24	4	1	4	4	4	0	4	1	20	4.467	5	22.335	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	

TABLE 10.—*Ladies' hosiery (2 folds), folded in ankle, 120 dozen to case*

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>	
<i>a</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	0	1.342	40	53.680	38.0	108.6	108.6	108.6	108.6	108.6	108.6
<i>b</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	0	1.592	40	63.680	43.9	111.7	111.7	111.7	111.7	111.7	111.7
<i>c</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	0	1.842	40	73.680	49.9	122.2	122.2	122.2	122.2	122.2	122.2
<i>d</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	0	2.342	40	93.680	61.7	136.2	136.2	136.2	136.2	136.2	136.2
<i>X</i>	<i>e</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	2.692	20	51.840	36.9	116.0	116.0	116.0	116.0	116.0	116.0
<i>f</i>	18.652	24.118	3	2	6	20	2	40	0	0	0	0	0	0	0	0	3.092	20	61.840	42.9	131.1	131.1	131.1	131.1	131.1	131.1
<i>g</i>	18.652	24.118	3	2	6	20	1	20	0	0	0	0	0	0	0	0	3.592	20	71.840	48.8	155.4	155.4	155.4	155.4	155.4	155.4
<i>h</i>	18.652	24.118	3	2	6	20	1	20	0	0	0	0	0	0	0	0	4.467	20	89.340	59.2	121.9	121.9	121.9	121.9	121.9	121.9

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$\frac{a}{b}$	36.177	3	9	13	2	26	3	6	1	3	1.342	27	36.234	36.9	105.4	-106.9	
$\frac{b}{c}$	18.552	36.177	3	9	13	2	26	3	6	1	3	1.592	42	42.0	-106.9		
$\frac{c}{d}$	18.552	36.177	3	9	13	2	26	3	6	1	3	1.842	27	49.734	42.1	113.7	
$\frac{d}{e}$	18.552	36.177	3	9	13	2	26	3	6	1	3	2.342	27	63.234	55.4		
$\frac{e}{f}$	18.552	36.177	3	9	13	1	13	3	3	1	6	2.592	14	36.288	36.9		
$\frac{f}{g}$	18.552	36.177	3	9	13	1	13	3	3	1	6	3.092	14	42.2	42.2		
$\frac{g}{h}$	18.552	36.177	3	9	13	1	13	3	3	1	6	3.592	14	50.288	47.6		
$\frac{h}{i}$	18.552	36.177	3	9	13	1	13	3	3	1	6	4.467	14	62.638	56.9		
$\frac{i}{j}$	18.552	48.236	3	4	12	10	2	20	0	0	0	0	1.342	20	26.840	37.3	106.6
$\frac{j}{k}$	18.552	48.236	3	4	12	10	2	20	0	0	0	0	1.592	20	31.840	42.0	106.4
$\frac{k}{l}$	18.552	48.236	3	4	12	10	2	20	0	0	0	0	2.342	20	36.840	46.6	
$\frac{l}{m}$	18.552	48.236	3	4	12	10	2	20	0	0	0	0	2.592	10	25.920	36.3	
$\frac{m}{n}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	3.092	10	30.920	41.1	
$\frac{n}{o}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	3.592	10	35.920	45.7	
$\frac{o}{p}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	4.467	10	44.670	53.9	
$\frac{p}{q}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	1.342	30	40.260	35.6	101.7
$\frac{q}{r}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	1.592	30	47.760	40.7	103.6
$\frac{r}{s}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	2.342	30	55.260	45.8	106.6
$\frac{s}{t}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	2.592	30	50.260	56.0	
$\frac{t}{u}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	3.092	15	38.380	34.7	
$\frac{u}{v}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	3.592	15	46.380	39.8	
$\frac{v}{w}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	4.467	15	53.880	44.8	
$\frac{w}{x}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	1.342	30	67.005	63.8	
$\frac{x}{y}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	1.592	30	70.260	56.8	
$\frac{y}{z}$	18.552	48.236	3	4	12	10	1	10	0	0	0	0	2.342	30	75.260	56.0	
$\frac{z}{a}$	24.736	24.118	4	2	8	15	2	30	0	0	0	0	1.342	30	30.760	40.7	103.6
$\frac{a}{b}$	24.736	24.118	4	2	8	15	2	30	0	0	0	0	1.592	30	37.760	40.7	103.6
$\frac{b}{c}$	24.736	24.118	4	2	8	15	2	30	0	0	0	0	2.342	30	44.760	40.7	103.6
$\frac{c}{d}$	24.736	24.118	4	2	8	15	2	30	0	0	0	0	2.592	15	50.260	56.0	
$\frac{d}{e}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.092	15	38.380	34.7	
$\frac{e}{f}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.592	15	46.380	39.8	
$\frac{f}{g}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	4.467	15	53.880	44.8	
$\frac{g}{h}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.342	30	67.005	63.8	
$\frac{h}{i}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.592	30	70.260	56.8	
$\frac{i}{j}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.342	30	75.260	56.0	
$\frac{j}{k}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.592	15	82.260	56.0	
$\frac{k}{l}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.092	15	38.380	34.7	
$\frac{l}{m}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.592	15	46.380	39.8	
$\frac{m}{n}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	4.467	15	53.880	44.8	
$\frac{n}{o}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.342	20	61.840	39.4	100.3
$\frac{o}{p}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.592	20	71.840	40.8	101.4
$\frac{p}{q}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.342	20	76.340	40.8	103.2
$\frac{q}{r}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.592	15	82.260	34.4	103.4
$\frac{r}{s}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.092	15	30.920	38.6	101.2
$\frac{s}{t}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.592	15	38.380	42.8	102.9
$\frac{t}{u}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	4.467	15	44.670	50.2	
$\frac{u}{v}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.342	20	80.840	39.4	100.3
$\frac{v}{w}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	1.592	20	86.840	40.8	101.4
$\frac{w}{x}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.342	20	91.840	40.8	103.2
$\frac{x}{y}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	2.592	15	96.340	40.8	103.4
$\frac{y}{z}$	24.736	24.118	4	2	8	15	1	15	0	0	0	0	3.092	15	102.260	34.4	103.5
$\frac{z}{a}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	1.342	24	32.208	35.0	100.3
$\frac{a}{b}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	1.592	24	38.208	39.6	101.4
$\frac{b}{c}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	1.842	24	44.208	39.6	102.4
$\frac{c}{d}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	2.342	24	50.208	33.3	103.5
$\frac{d}{e}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	2.592	12	37.104	33.7	103.7
$\frac{e}{f}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	3.092	12	43.104	48.3	104.3
$\frac{f}{g}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	3.592	12	43.104	51.604	105.1
$\frac{g}{h}$	30.920	24.118	5	2	10	12	2	20	0	0	0	0	4.467	12	43.104	51.604	105.1

104082°—24†—3

TABLE 10.—*Ladies' hostory (2 folds), folded in ankle, 120 dozen to case—Continued*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>	
VIII	<i>a</i> -	36.177	5	3	15	8	2	16	0	0	0	0	0	0	0	1.342	16	21.472	35.5	101.4							
	<i>b</i> -	36.177	5	3	15	8	2	16	0	0	0	0	0	0	0	1.592	16	25.472	35.5	100							
	<i>c</i> -	36.177	5	3	15	8	2	16	0	0	0	0	0	0	0	1.842	16	29.472	43.0								
	<i>d</i> -	36.177	5	3	15	8	2	16	0	0	0	0	0	0	0	2.342	16	31.472	50.5								
	<i>e</i> -	36.177	5	3	15	8	2	16	0	0	0	0	0	0	0	2.592	8	20.736	34.9								
	<i>f</i> -	36.177	5	3	15	8	1	8	0	0	0	0	0	0	0	3.092	8	24.736	38.6								
	<i>g</i> -	36.177	5	3	15	8	1	8	0	0	0	0	0	0	0	3.592	8	28.736	42.3								
	<i>h</i> -	36.177	5	3	15	8	1	8	0	0	0	0	0	0	0	4.467	8	36.736	48.8								
IX	<i>a</i> -	48.236	5	4	20	6	2	12	0	0	0	0	0	0	0	1.342	12	16.104	38.4	109.7							
	<i>b</i> -	48.236	5	4	20	6	2	12	0	0	0	0	0	0	0	1.592	12	19.104	41.7	106.1							
	<i>c</i> -	48.236	5	4	20	6	2	12	0	0	0	0	0	0	0	1.842	12	22.104	45.0								
	<i>d</i> -	48.236	5	4	20	6	2	12	0	0	0	0	0	0	0	2.342	12	28.104	51.6								
	<i>e</i> -	48.236	5	4	20	6	1	6	0	0	0	0	0	0	0	2.592	6	15.552	37.8								
	<i>f</i> -	48.236	5	4	20	6	1	6	0	0	0	0	0	0	0	3.092	6	18.552	41.1								
	<i>g</i> -	48.236	5	4	20	6	1	6	0	0	0	0	0	0	0	3.592	6	21.552	44.4								
	<i>h</i> -	48.236	5	4	20	6	1	6	0	0	0	0	0	0	0	4.467	6	26.802	50.2								
X	<i>a</i> -	24.118	6	2	12	10	2	20	0	0	0	0	0	0	0	1.342	20	26.840	35.3	100.9							
	<i>b</i> -	24.118	6	2	12	10	2	20	0	0	0	0	0	0	0	1.592	20	31.840	43.7								
	<i>c</i> -	24.118	6	2	12	10	2	20	0	0	0	0	0	0	0	1.842	20	36.840	43.7								
	<i>d</i> -	24.118	6	2	12	10	2	20	0	0	0	0	0	0	0	2.342	20	46.840	52.3								
	<i>e</i> -	24.118	6	2	12	10	1	10	0	0	0	0	0	0	0	2.592	10	30.920	34.5								
	<i>f</i> -	24.118	6	2	12	10	1	10	0	0	0	0	0	0	0	3.092	10	33.920	38.7								
	<i>g</i> -	24.118	6	2	12	10	1	10	0	0	0	0	0	0	0	3.592	10	35.920	43.0								
	<i>h</i> -	24.118	6	2	12	10	1	10	0	0	0	0	0	0	0	4.467	10	44.670	50.4								
XI	<i>a</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>b</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>c</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>d</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>e</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>f</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>g</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
	<i>h</i> -	36.177	6	3	18	6	2	12	12	24	1	6	1	12	12	1	12	12	12	12	12	12	12	12	12	12	
XII	<i>a</i> -	48.236	6	4	24	5	2	10	0	0	0	0	0	0	0	1.342	10	13.420	40.8								
	<i>b</i> -	48.236	6	4	24	5	2	10	0	0	0	0	0	0	0	1.592	10	18.920	43.7								
	<i>c</i> -	48.236	6	4	24	5	2	10	0	0	0	0	0	0	0	1.842	10	18.420	46.7								
	<i>d</i> -	48.236	6	4	24	5	2	10	0	0	0	0	0	0	0	2.342	10	23.420	52.6								
	<i>e</i> -	48.236	6	4	24	5	2	10	0	0	0	0	0	0	0	2.592	10	12.960	40.2								
	<i>f</i> -	48.236	6	4	24	5	1	5	0	0	0	0	0	0	0	3.092	5	15.460	43.2								
	<i>g</i> -	48.236	6	4	24	5	1	5	0	0	0	0	0	0	0	3.592	5	17.960	46.7								
	<i>h</i> -	48.236	6	4	24	5	1	5	0	0	0	0	0	0	0	4.467	5	22.355	51.3								

TABLE 11.—*Ladies' hosiery (2 folds), folded in gore of heel, 60 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>
<i>a</i>	18.552	26.868	3	2	6	10	2	20	0	0	0	0	0	0	0	0	1.342	20	26.840	23.9	101.3	—	—	—	—
<i>b</i>	18.552	26.868	3	2	6	10	2	20	0	0	0	0	0	0	0	0	1.592	20	31.840	27.0	102.7	—	—	—	—
<i>c</i>	18.552	26.868	3	2	6	10	2	20	0	0	0	0	0	0	0	0	1.842	20	36.840	30.2	107.3	—	—	—	—
<i>d</i>	18.552	26.868	3	2	6	10	2	20	0	0	0	0	0	0	0	0	2.342	20	46.840	36.5	100.0	—	—	—	—
<i>e</i>	18.552	26.868	3	2	6	10	1	20	0	0	0	0	0	0	0	0	2.592	10	25.920	23.3	100.4	—	—	—	—
<i>f</i>	18.552	26.868	3	2	6	10	1	20	0	0	0	0	0	0	0	0	3.092	10	30.120	26.5	102.8	—	—	—	—
<i>g</i>	18.552	26.868	3	2	6	10	1	20	0	0	0	0	0	0	0	0	3.592	10	35.120	29.6	—	—	—	—	106.4
<i>h</i>	18.552	26.868	3	2	6	10	1	10	0	0	0	0	0	0	0	0	4.467	10	44.670	35.1	—	—	—	—	—
<i>a</i>	18.552	40.302	3	3	9	6	2	12	6	12	1	3	1	6	1	3	1.342	14	18.788	14	108.9	—	—	—	—
<i>b</i>	18.552	40.302	3	3	9	6	2	12	6	12	1	3	1	6	1	3	1.592	14	22.288	28.6	108.7	—	—	—	—
<i>c</i>	18.552	40.302	3	3	9	6	2	12	6	12	1	3	1	6	1	3	1.842	14	25.788	31.5	109.4	—	—	—	—
<i>d</i>	18.552	40.302	3	3	9	6	2	12	6	12	1	3	1	6	1	3	2.342	14	32.788	37.2	108.1	—	—	—	—
<i>e</i>	18.552	40.302	3	3	3	-	9	6	1	6	6	0	6	1	3	2.592	7	18.144	25.2	106.4	—	—	—	—	
<i>f</i>	18.552	40.302	3	3	3	-	9	6	1	6	6	0	6	1	3	3.092	7	21.144	28.1	107.3	—	—	—	—	
<i>g</i>	18.552	40.302	3	3	9	6	1	6	6	6	0	6	1	3	3	3.592	7	25.144	30.9	108.8	—	—	—	—	
<i>h</i>	18.552	40.302	3	3	9	6	1	6	6	6	0	6	1	3	1	3	4.467	7	31.269	36.9	—	—	—	—	—
<i>a</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.342	10	13.420	27.3	115.7	—	—	—	—
<i>b</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.592	10	15.920	20.8	113.3	—	—	—	—
<i>c</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.842	10	18.420	32.3	111.4	—	—	—	—
<i>d</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	2.342	10	23.420	37.4	110.0	—	—	—	—
<i>e</i>	18.552	53.736	3	4	12	5	1	5	0	0	0	0	0	0	0	0	2.592	5	12.960	26.8	115.0	—	—	—	—
<i>f</i>	18.552	53.736	3	4	12	5	1	5	0	0	0	0	0	0	0	0	3.092	5	15.460	29.3	111.0	—	—	—	—
<i>g</i>	18.552	53.736	3	4	12	5	1	5	0	0	0	0	0	0	0	0	3.592	5	17.960	31.9	110.8	—	—	—	—
<i>h</i>	18.552	53.736	3	4	12	5	1	5	0	0	0	0	0	0	0	0	4.467	5	22.335	36.3	—	—	—	—	110.0
<i>a</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.342	10	13.420	27.3	115.7	—	—	—	—
<i>b</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.592	10	15.920	20.8	113.3	—	—	—	—
<i>c</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	1.842	10	18.420	32.3	111.4	—	—	—	—
<i>d</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	2.342	10	23.420	37.4	110.0	—	—	—	—
<i>e</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	2.592	5	12.960	26.8	115.0	—	—	—	—
<i>f</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	3.092	5	15.460	29.3	111.0	—	—	—	—
<i>g</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	3.592	5	17.960	31.9	110.8	—	—	—	—
<i>h</i>	18.552	53.736	3	4	12	5	2	10	0	0	0	0	0	0	0	0	4.467	5	22.335	36.3	—	—	—	—	110.0
<i>a</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	1.342	15	20.130	23.6	100.0	—	—	—	—
<i>b</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	1.592	15	23.880	26.3	100.0	—	—	—	—
<i>c</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	1.842	15	27.630	29.0	100.0	—	—	—	—
<i>d</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	2.342	15	35.130	34.4	101.2	—	—	—	—
<i>e</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	2.592	15	20.736	24.1	103.4	—	—	—	—
<i>f</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	3.092	8	24.736	26.9	101.9	—	—	—	—
<i>g</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	3.592	8	28.736	29.8	103.5	—	—	—	—
<i>h</i>	24.736	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	0	4.467	8	35.736	34.8	—	—	—	—	105.5
<i>a</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	1.342	10	13.420	23.8	107.2	—	—	—	—
<i>b</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	1.592	10	15.920	28.2	105.2	—	—	—	—
<i>c</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	1.842	10	18.420	30.5	102.9	—	—	—	—
<i>d</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	2.342	10	23.120	35.0	103.5	—	—	—	—
<i>e</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	2.592	10	12.060	25.6	104.5	—	—	—	—
<i>f</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	3.092	5	15.460	27.8	103.1	—	—	—	—
<i>g</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	3.592	5	17.960	30.1	103.0	—	—	—	—
<i>h</i>	24.736	40.302	4	3	12	5	2	10	0	0	0	0	0	0	0	0	4.467	5	22.335	33.0	103.0	—	—	—	—

TABLE 11.—*Ladies' hosiery* (2 folds), folded in gore of heel, 60 dozen to case—Continued

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S_a	S_b	S_c	S_d	S_t	S_u	S_h
$\begin{matrix} a \\ b \end{matrix}$	24.736	53.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	342	8	10.736	30.2	128.0	122.8			
	24.736	63.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	342	8	12.736	32.3					
$\begin{matrix} c \\ d \end{math}$	24.736	53.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	312	8	14.736	34.5					
	24.736	63.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	312	8	18.736	38.9					
$\begin{matrix} e \\ f \end{math}$	24.736	53.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	322	4	12.388	29.8					
	24.736	63.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	322	4	12.388	31.9					
$\begin{matrix} g \\ h \end{math}$	24.736	53.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	302	4	14.388	34.1					
	24.736	63.736	4	16	3	2	6	12	24	1	8	1	8	1	8	1	302	4	14.388	37.8					
$\begin{matrix} i \\ j \end{math}$	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	1.342	12	16.104	24.4	103.4	101.9			
	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	1.342	12	16.104	26.8					
$\begin{matrix} k \\ l \end{math}$	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	1.812	12	22.104	29.2					
	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	2.312	12	28.104	34.0					
$\begin{matrix} m \\ n \end{math}$	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	2.592	6	15.552	24.0					
	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	3.092	6	18.552	26.4					
$\begin{matrix} o \\ p \end{math}$	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	3.592	6	21.552	28.8					
	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	4.467	6	26.892	33.0					
$\begin{matrix} r \\ s \end{math}$	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	4.467	6	30.892	33.0					
	30.920	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	0	4.467	6	36.892	33.0					
$\begin{matrix} u \\ v \end{math}$	30.920	40.302	5	3	15	4	2	8	0	0	0	0	0	0	0	0	1.342	8	10.736	27.9	118.2	113.7			
	30.920	40.302	5	3	15	4	2	8	0	0	0	0	0	0	0	0	1.592	8	12.736	29.9					
$\begin{matrix} x \\ y \end{math}$	30.920	40.302	5	3	15	4	2	8	0	0	0	0	0	0	0	0	1.812	8	14.736	31.9					
	30.920	40.302	5	3	15	4	2	8	0	0	0	0	0	0	0	0	2.312	8	18.736	35.8					
$\begin{matrix} z \\ \alpha \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	2.592	4	12.368	29.5					
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	3.092	4	12.368	31.5					
$\begin{matrix} \beta \\ \gamma \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	4.467	4	17.868	31.5					
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	4.467	4	17.868	31.5					
$\begin{matrix} \delta \\ \epsilon \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	1.342	6	8.032	32.5	137.7	130.4			
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	1.592	6	9.532	34.3					
$\begin{matrix} \zeta \\ \eta \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	2.312	6	11.032	36.1	105.3	105.3			
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	3.092	6	12.532	37.6					
$\begin{matrix} \theta \\ \varphi \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	3.592	6	13.032	38.8					
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	4.467	3	13.401	38.8					
$\begin{matrix} \chi \\ \psi \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	1.342	10	13.420	25.8	109.3	106.5			
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	1.592	10	15.920	28.0					
$\begin{matrix} \omega \\ \rho \end{math}$	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	1.842	10	18.420	30.2					
	30.920	40.302	5	3	15	4	1	4	0	0	0	0	0	0	0	0	2.342	10	23.420	34.9					
$\begin{matrix} \sigma \\ \tau \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	3.092	3	9.276	34.0					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	3.592	3	10.776	35.7					
$\begin{matrix} \nu \\ \mu \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	4.467	3	13.401	38.8					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	4.467	3	13.401	38.8					
$\begin{matrix} \lambda \\ \kappa \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	5.092	3	14.920	34.9					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	5.592	3	16.920	35.7					
$\begin{matrix} \beta' \\ \gamma' \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	6.092	3	17.920	36.5					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	6.467	3	17.920	37.7					
$\begin{matrix} \delta' \\ \epsilon' \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	7.092	3	18.920	38.0					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	7.592	3	19.920	38.8					
$\begin{matrix} \zeta' \\ \eta' \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	8.092	3	20.920	39.6					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	8.467	3	20.920	40.7					
$\begin{matrix} \theta' \\ \varphi' \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	8.992	3	21.920	39.6					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	9.467	3	21.920	40.7					
$\begin{matrix} \omega' \\ \rho' \end{math}$	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	10.092	3	22.920	39.6					
	30.920	53.736	5	4	20	3	2	6	0	0	0	0	0	0	0	0	10.467	3	22.920	40.7					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S _A	S _B	S _C	S _D	S _E	S _F	S _G	S _H	
<i>a</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.342	34	45.028	35.7	107.9	110.8							
<i>b</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.592	34	61.128	41.1	114.4	112.9							
<i>c</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.842	7	16.394	38.4									
<i>d</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	2.342	7	10.368	31.9									
XI	<i>e</i>	18.532	40.302	3	3	9	11	2	22	1	1	1	1	1	2	5.92	4	12.368	34.1								
<i>f</i>	18.532	40.302	3	3	9	11	2	22	1	1	1	1	1	1	3.092	4	14.368	36.2									
<i>g</i>	18.532	40.302	3	3	9	11	2	22	1	1	1	1	1	1	3.592	4	17.868	39.9									
<i>h</i>	18.532	40.302	3	3	9	11	2	22	1	1	1	1	1	1	4.467	4	17.868	39.9									
	<i>a</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.342	5	6.710	36.2	153.4	143.3							
<i>b</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.592	5	7.960	37.7										
<i>c</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.842	5	9.210	39.3										
<i>d</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	2.342	5	11.710	42.5										
XII	<i>e</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	2.592	5	12.592	37.5									
<i>f</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	3.092	5	13.092	38.7										
<i>g</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	3.592	5	13.592	39.3										
<i>h</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	4.467	5	13.467	39.9										
	<i>a</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.342	5	6.710	36.2	153.4	143.3							
<i>b</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.592	5	7.960	37.7										
<i>c</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	1.842	5	9.210	39.3										
<i>d</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	2.342	5	11.710	42.5										
XIII	<i>e</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	2.592	5	12.592	37.5									
<i>f</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	3.092	5	13.092	38.7										
<i>g</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	3.592	5	13.592	39.3										
<i>h</i>	37.104	63.736	6	4	24	2	4	12	24	1	0	0	0	4.467	5	13.467	39.9										

TABLE 12.—*Ladies' hosiery (2 folds), folded in gore of heel, 100 dozen to case*

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S _A	S _B	S _C	S _D	S _E	S _F	S _G	S _H
<i>a</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.342	34	45.028	35.7	107.9	110.5						
<i>b</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.592	34	61.128	41.1	114.4	112.9						
<i>c</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	1.842	34	62.028	46.7								
<i>d</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	2.342	34	74.028	67.2								
XIV	<i>e</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	2.592	17	44.064	34.8							
<i>f</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	3.092	17	52.664	40.1								
<i>g</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	3.592	17	61.064	45.1								
<i>h</i>	18.532	26.868	3	2	6	16	2	32	4	8	1	2	1	4	4.467	17	75.039	54.8								
	<i>a</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	1.342	23	30.866	35.6							
<i>b</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	1.592	23	36.010	40.3								
<i>c</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	1.842	23	42.306	45.0								
<i>d</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	2.342	23	53.866	64.4								
XV	<i>e</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	2.592	12	31.104	35.8							
<i>f</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	3.092	12	37.104	40.7								
<i>g</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	3.592	12	43.104	45.6								
<i>h</i>	18.532	40.302	3	3	9	11	2	22	1	2	0	2	1	7	4.467	12	52.004	53.4								
	<i>a</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.342	17	22.814	36.7							
<i>b</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.592	17	21.064	41.0								
<i>c</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.842	17	31.314	45.3								
<i>d</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	2.342	17	39.814	63.8								
XVI	<i>e</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	2.592	12	23.228	37.3							
<i>f</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	3.092	9	27.228	41.8								
<i>g</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	3.592	9	32.228	46.3								
<i>h</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	4.467	9	40.203	54.2								

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S _A	S _B	S _C	S _D	S _E	S _F	S _G	S _H	
<i>a</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.342	17	21.064	41.0									
<i>b</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.592	17	20.064	41.0									
<i>c</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	1.842	17	21.314	45.3									
<i>d</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	2.342	17	39.814	63.8									
XVII	<i>e</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	2.592	12	23.228	37.3								
<i>f</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	3.092	9	27.228	41.8									
<i>g</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	3.592	9	32.228	46.3									
<i>h</i>	18.532	53.736	3	4	12	8	2	16	4	8	0	8	1	4	4.467	9	40.203	54.2									

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S _A	S _B	S _C	S _D </
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TABLE 12.—*Ladies' hosiery (2 folds), folded in gore of heel, 100 dozen to case—Continued*

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S _a	S _b	S _c	S _d	S _e	S _f	S _g	S _h
<i>a</i>	24.736	26.868	4	2	8	12	2	24	4	8	1	0	0	0	1,342	25	33,550	33,3	100,6	101,6					
<i>b</i>	24.736	26.868	4	2	8	12	2	24	4	8	1	0	0	0	1,592	25	39,800	37,7	102,7	102,7					
<i>c</i>	24.736	26.868	4	2	8	12	2	24	4	8	1	0	0	0	1,842	25	46,050	42,2							
<i>d</i>	-	24.736	26.868	4	2	8	12	1	12	4	4	0	4	1	4	2,342	25	59,550	51,9	105,7	105,7				
<i>e</i>	24.736	26.868	4	2	8	12	1	12	4	4	0	4	1	4	2,592	13	33,696	33,3							
<i>f</i>	-	24.736	26.868	4	2	8	12	1	12	4	4	0	4	1	4	3,092	13	40,196	38,0	104,7	104,7				
<i>g</i>	24.736	26.868	4	2	8	12	1	12	4	4	0	4	1	4	3,592	13	46,696	42,7							
<i>h</i>	24.736	26.868	4	2	8	12	1	12	4	4	0	4	1	4	4,467	13	58,071	50,9	107,4	107,4					
<i>a</i>	24.736	40.392	4	3	12	8	2	16	4	8	0	8	1	4	1,342	17	22,814	34,5	104,2	104,2					
<i>b</i>	-	24.736	40.392	4	3	12	8	2	16	4	8	0	8	1	4	1,592	17	27,664	38,3	102,2	102,2				
<i>c</i>	24.736	40.392	4	3	12	8	2	16	4	8	0	8	1	4	1,842	17	31,314	42,1	102,4	102,4					
<i>d</i>	-	24.736	40.392	4	3	12	8	2	16	4	8	0	8	1	4	2,342	17	39,814	40,8	108,0	108,0				
<i>e</i>	24.736	40.392	4	3	12	8	1	8	4	4	0	8	1	8	2,592	9	23,523	34,9							
<i>f</i>	-	24.736	40.392	4	3	12	8	1	8	4	4	0	8	1	8	3,092	9	27,528	30,0	107,4	107,4				
<i>g</i>	24.736	40.392	4	3	12	8	1	8	4	4	0	8	1	8	3,592	9	32,328	43,0							
<i>h</i>	24.736	40.392	4	3	12	8	1	8	4	4	0	8	1	8	4,467	9	40,293	50,2	106,4	106,4					
<i>a</i>	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,342	13	17,446	37,5	113,3	113,3					
<i>b</i>	-	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,592	13	20,996	41,0	110,6	110,6				
<i>c</i>	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,842	13	23,946	44,5							
<i>d</i>	-	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	2,342	17	30,446	51,6	105,1	105,1				
<i>e</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	2,592	7	18,144	38,2	118,3	118,3					
<i>f</i>	-	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	3,092	7	21,644	45,8	115,7	115,7				
<i>g</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	3,592	7	25,444	45,8							
<i>h</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	4,467	7	31,260	52,5	113,4	113,4					
<i>a</i>	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,342	13	17,446	37,5	113,3	113,3					
<i>b</i>	-	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,592	13	20,996	41,0	110,6	110,6				
<i>c</i>	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	1,842	13	23,946	44,5							
<i>d</i>	-	24.736	53.736	4	4	16	6	2	12	4	8	0	8	1	8	2,342	17	30,446	51,6	105,1	105,1				
<i>e</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	2,592	7	18,144	38,2	118,3	118,3					
<i>f</i>	-	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	3,092	7	21,644	45,8	115,7	115,7				
<i>g</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	3,592	7	25,444	45,8							
<i>h</i>	24.736	53.736	4	4	16	6	1	6	4	4	0	4	1	12	4,467	7	31,260	52,5	113,4	113,4					
<i>a</i>	30.920	26.868	5	2	10	10	2	20	0	0	0	0	0	0	1,342	20	26,840	33,1	100,0	100,0					
<i>b</i>	-	30.920	26.868	5	2	10	10	2	20	0	0	0	0	0	1,592	20	31,940	37,1							
<i>c</i>	30.920	26.868	5	2	10	10	2	20	0	0	0	0	0	0	1,842	20	36,940	41,1							
<i>d</i>	-	30.920	26.868	5	2	10	10	2	20	0	0	0	0	0	2,342	20	46,840	49,1							
<i>e</i>	30.920	26.868	5	2	10	10	1	10	0	0	0	0	0	0	2,592	10	25,920	32,3							
<i>f</i>	-	30.920	26.868	5	2	10	10	1	10	0	0	0	0	0	3,092	10	30,920	36,3							
<i>g</i>	30.920	26.868	5	2	10	10	1	10	0	0	0	0	0	0	3,592	10	35,920	40,4							
<i>h</i>	30.920	26.868	5	2	10	10	1	10	0	0	0	0	0	0	4,467	10	44,670	47,4							
<i>a</i>	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	1,342	14	18,788	35,9	108,5	108,5					
<i>b</i>	-	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	1,592	14	22,588	42,8						
<i>c</i>	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	1,842	14	25,788	42,8							
<i>d</i>	-	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	2,342	14	32,788	44,7						
<i>e</i>	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	2,592	14	38,788	44,7							
<i>f</i>	-	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	3,092	7	21,644	38,7						
<i>g</i>	30.920	40.392	5	3	15	6	2	12	10	20	1	5	1	10	3,592	7	25,144	42,2							
<i>h</i>	30.920	40.392	5	3	15	6	1	6	10	10	0	10	1	5	4,467	7	31,260	48,2							

101.7

TABLE 13.—*Ladies' hosiery (2 folds), folded in gore of heel, 120 dozen to case*

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	$\sim Q$	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>	<i>S_d</i>	<i>S_e</i>	<i>S_f</i>	<i>S_g</i>	<i>S_h</i>
<i>a</i>	18.552	26.868	3	2	6	20	2	40	0	0	0	0	0	0	0	1.342	40	53.680	40.8	109.1	111.9	111.8	111.8	111.8	111.8	111.8
<i>b</i>	18.552	26.868	3	2	6	20	2	40	0	0	0	0	0	0	0	1.552	40	63.680	47.1	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>c</i>	18.552	26.868	3	2	6	20	2	40	0	0	0	0	0	0	0	1.842	40	73.680	53.4	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>d</i>	18.552	26.868	3	2	6	20	2	40	0	0	0	0	0	0	0	2.342	40	93.680	66.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>e</i>	18.552	26.868	3	2	6	20	2	40	0	0	0	0	0	0	0	2.562	20	51.840	39.7	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>f</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	3.082	20	61.840	46.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>g</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	3.592	20	71.840	62.3	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>h</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	4.467	20	89.340	63.3	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>i</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	5.337	20	109.340	100.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>j</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	6.212	20	139.340	130.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>k</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	7.187	20	169.340	160.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>l</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	8.162	20	199.340	190.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>m</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	9.137	20	229.340	220.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>n</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	10.112	20	259.340	250.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>o</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	11.087	20	289.340	280.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>p</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	12.062	20	319.340	310.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>q</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	13.037	20	349.340	340.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>r</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	14.012	20	379.340	370.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>s</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	15.087	20	409.340	400.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>t</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	16.062	20	439.340	430.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>u</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	17.037	20	469.340	460.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>v</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	18.012	20	499.340	490.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>w</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	19.087	20	529.340	520.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>x</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	20.062	20	559.340	550.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>y</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	21.037	20	589.340	580.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>z</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	22.012	20	619.340	610.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>aa</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	23.087	20	649.340	640.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ab</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	24.062	20	679.340	670.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ac</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	25.037	20	709.340	700.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ad</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	26.012	20	739.340	730.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ae</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	27.087	20	769.340	760.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>af</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	28.062	20	799.340	790.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ag</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	29.037	20	829.340	820.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ah</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	30.012	20	859.340	850.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ai</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	31.087	20	889.340	880.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>aj</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	32.062	20	919.340	910.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ak</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	33.037	20	949.340	940.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>al</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	34.012	20	979.340	970.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>am</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	35.087	20	1009.340	1000.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>an</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	36.062	20	1039.340	1030.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ao</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	37.037	20	1069.340	1060.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ap</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	38.012	20	1099.340	1090.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>aq</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	39.087	20	1129.340	1120.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ar</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	40.062	20	1159.340	1150.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>as</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	41.037	20	1189.340	1180.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>at</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	42.012	20	1219.340	1210.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>au</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	43.087	20	1249.340	1240.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>av</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	44.062	20	1279.340	1270.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>aw</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	45.037	20	1309.340	1300.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ay</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	46.012	20	1339.340	1330.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>az</i>	18.552	26.868	3	2	6	20	1	20	0	0	0	0	0	0	0	47.087	20	1369.340	1360.0	111.8	111.8	111.8	111.8	111.8	111.8	111.8
<i>ba</i>	18.552	26.868	3	2	6	20	1	20	0</td																	

TABLE 13.—*Ladies' hosiery (2 folds), folded in gore of heel, 120 dozen to case—Continued*

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	S_a	S_b	S_c	S_d	S_e	S_f	S_g	S_h	
	a_{-}	18.552	40.302	3	3	9	13	2	26	3	6	0	6	1	3	1.342	27	36.234	40.0	107.0	108.1							
	b_{-}	18.552	40.302	3	3	9	13	2	26	3	6	0	6	1	3	1.592	27	49.984	45.5		108.7							
	c_{-}	18.552	40.302	3	3	9	13	2	26	3	6	0	6	1	3	1.842	27	49.734	51.0									
	d_{-}	18.552	40.302	3	3	9	13	2	26	3	6	0	6	1	3	2.342	27	63.234	62.1									
	e_{-}	18.552	40.302	3	3	9	13	1	13	3	3	0	3	1	6	2.592	14	36.288	40.0									
	f_{-}	18.552	40.302	3	3	9	13	1	13	3	3	0	3	1	6	3.092	14	43.288	45.8									
	g_{-}	18.552	40.302	3	3	9	13	1	13	3	3	0	3	1	6	3.592	14	50.288	51.5									
	h_{-}	18.552	40.302	3	3	9	13	1	13	3	3	0	3	1	6	4.467	14	62.538	61.5									
	a_{-}	18.552	53.736	3	4	12	10	2	20	0	0	0	0	0	0	1.342	20	26.840	40.8	109.1	108.8							
	b_{-}	18.552	53.736	3	4	12	10	2	20	0	0	0	0	0	0	1.592	20	31.840	45.8		108.3							
	c_{-}	18.552	53.736	3	4	12	10	2	20	0	0	0	0	0	0	1.842	20	36.840	50.8		111.9							
	d_{-}	18.552	53.736	3	4	12	10	2	20	0	0	0	0	0	0	2.342	20	46.840	60.9									
	e_{-}	18.552	53.736	3	4	12	10	1	10	0	0	0	0	0	0	2.592	10	25.920	39.9									
	f_{-}	18.552	53.736	3	4	12	10	1	10	0	0	0	0	0	0	3.092	10	30.920	44.9									
	g_{-}	18.552	53.736	3	4	12	10	1	10	0	0	0	0	0	0	3.592	10	35.920	49.9									
	h_{-}	18.552	53.736	3	4	12	10	1	10	0	0	0	0	0	0	4.467	10	44.670	58.7									
	a_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.342	30	40.260	38.1	101.9	103.1							
	b_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.592	30	47.760	43.4		105.4							
	c_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.842	30	55.260	49.0		109.6							
	d_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	2.342	30	70.260	59.6									
	e_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	2.592	15	38.850	37.1									
	f_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	3.092	15	46.380	42.5									
	g_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	3.592	15	53.880	47.8									
	h_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	4.467	15	67.005	57.3									
	a_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.342	20	26.840	38.1	101.9	103.1							
	b_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.592	20	31.840	42.6		105.4							
	c_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.842	20	36.840	47.1									
	d_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	2.342	20	46.840	56.2									
	e_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	2.592	10	25.920	37.3									
	f_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	3.092	10	30.920	41.8									
	g_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	3.592	10	35.920	46.3									
	h_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	4.467	10	44.670	54.2									
	a_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.342	15	20.130	40.4	108.0	105.7							
	b_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.592	15	23.880	44.5		104.5							
	c_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.842	15	27.630	48.6									
	d_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	2.342	15	35.130	56.8									
	e_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	2.592	8	20.738	41.1		101.3							
	f_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	3.092	8	24.738	45.4									
	g_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	3.592	8	28.738	48.7									
	h_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	4.467	8	35.736	45.7									
	a_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.342	30	40.260	38.1	101.9	103.1							
	b_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.592	30	47.760	43.4		105.4							
	c_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	1.842	30	55.260	49.0									
	d_{-}	24.736	26.868	4	2	8	15	2	30	0	0	0	0	0	0	2.342	30	70.260	59.6									
	e_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	2.592	15	38.850	37.1									
	f_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	3.092	15	46.380	42.5									
	g_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	3.592	15	53.880	47.8									
	h_{-}	24.736	26.868	4	2	8	15	1	15	0	0	0	0	0	0	4.467	15	67.005	57.3									
	a_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.342	20	26.840	38.1	101.9	103.1							
	b_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.592	20	31.840	42.6		105.4							
	c_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	1.842	20	36.840	47.1									
	d_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	2.342	20	46.840	56.2									
	e_{-}	24.736	40.302	4	3	12	10	2	20	0	0	0	0	0	0	2.592	10	25.920	37.3									
	f_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	3.092	10	30.920	41.8									
	g_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	3.592	10	35.920	46.3									
	h_{-}	24.736	40.302	4	3	12	10	1	10	0	0	0	0	0	0	4.467	10	44.670	54.2									
	a_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.342	15	20.130	40.4	108.0	105.7							
	b_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.592	15	23.880	44.5		104.5							
	c_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	1.842	15	27.630	48.6									
	d_{-}	24.736	53.736	4	4	16	7	2	14	8	16	1	0	0	0	2.342	15	35.130	56.8									
	e_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	2.592	8	20.738	41.1									
	f_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	3.092	8	24.738	45.4									
	g_{-}	24.736	53.736	4	4	16	7	1	7	8	8	0	1	0	0	3.592	8	28.738	48.7									
	h_{-}	24.736	53.																									

TABLE 14.—Men's hosiery, 60 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>
I.	12.927	13.434	3	1	3	20	2	40	0	0	0	0	0	0	0	1.342	40	53.080	22.1	117.6	
	12.927	13.434	3	1	3	20	1	20	0	0	0	0	0	0	0	2.592	20	51.640	21.4	115.7	
	(c)	12.927	13.434	3	1	3	20	1	20	0	0	0	0	0	0	3.092	20	61.840	25.1	122.4	
II.	12.927	12.927	26.868	3	2	6	10	2	20	0	0	0	0	0	0	1.342	20	26.840	19.7	104.8	
	12.927	12.927	26.868	3	2	6	10	1	10	0	0	0	0	0	0	2.592	10	25.920	19.2	103.8	
	(c)	12.927	26.868	3	2	6	10	1	10	0	0	0	0	0	0	3.092	10	30.920	21.9	106.8	
III.	17.226	13.434	4	1	4	15	2	30	0	0	0	0	0	0	0	1.342	30	40.260	20.4	108.4	
	17.226	13.434	4	1	4	15	1	15	0	0	0	0	0	0	0	2.592	15	38.880	19.8	107.0	
	(c)	17.226	13.434	4	1	4	15	1	15	0	0	0	0	0	0	3.092	15	46.380	23.0	112.2	
IV.	17.226	26.868	4	2	8	7	2	14	4	8	1	0	0	0	0	1.342	15	20.130	18.8	100.0	
	17.226	26.868	4	2	8	7	1	7	4	4	0	4	1	4	1	2.592	8	24.736	21.6	105.4	
	(c)	17.226	26.868	4	2	8	7	1	7	4	4	0	4	1	4	3.092	8	20.736	19.1	103.2	
V.	21.545	13.434	5	1	5	12	2	24	0	0	0	0	0	0	0	1.342	24	32.298	19.7	104.8	
	21.545	13.434	5	1	5	12	1	12	0	0	0	0	0	0	0	2.592	12	31.104	19.1	103.2	
	(c)	21.545	13.434	5	1	5	12	1	12	0	0	0	0	0	0	3.092	12	37.104	22.0	107.3	
VI.	21.545	26.868	5	2	10	6	2	12	0	0	0	0	0	0	0	1.342	12	16.104	18.9	100.5	
	21.545	26.868	5	2	10	6	1	6	0	0	0	0	0	0	0	2.592	6	15.552	18.5	100.0	
	(c)	21.545	26.868	5	2	10	6	1	6	0	0	0	0	0	0	3.092	6	18.552	20.5	100.0	
VII.	25.854	13.434	6	1	6	10	2	20	0	0	0	0	0	0	0	1.342	20	26.840	19.5	103.7	
	25.854	13.434	6	1	6	10	1	10	0	0	0	0	0	0	0	2.592	10	25.920	19.0	102.7	
	(c)	25.854	13.434	6	1	6	10	1	10	0	0	0	0	0	0	3.092	10	30.920	21.7	105.8	
VIII.	25.854	26.868	6	2	12	5	2	10	0	0	0	0	0	0	0	1.342	10	13.420	19.5	103.7	
	25.854	26.868	6	2	12	5	1	6	0	0	0	0	0	0	0	2.592	5	12.960	19.1	103.2	
	(c)	25.854	26.868	6	2	12	5	1	6	0	0	0	0	0	0	3.092	5	15.460	21.0	102.4	
IX.	30.163	13.434	7	1	7	8	2	16	4	8	1	1	1	1	1	1.342	18	24.156	20.3	108.0	
	30.163	13.434	7	1	7	8	1	8	4	4	0	4	1	1	1	2.592	9	23.328	19.8	107.0	
	(c)	30.163	13.434	7	1	7	8	1	8	4	4	0	4	1	1	3.092	9	27.828	22.5	105.7	
X.	30.163	26.868	7	2	14	4	2	8	4	8	0	8	1	6	1.342	9	12.078	20.8	110.6		
	30.163	26.868	7	2	14	4	1	4	4	4	0	4	1	10	2.592	5	12.960	21.5	110.2		
	(c)	30.163	26.868	7	2	14	4	1	4	4	4	0	4	1	10	3.092	5	15.460	23.5	114.6	

TABLE 15.—Men's hosiery, 100 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>
I	17.236	13.434	4	1	4	25	2	50	0	0	0	0	0	0	0	1,342	50	67,100	31.8	121.8	
	17.236	13.434	4	1	4	25	1	25	0	0	0	0	0	0	0	2,592	25	64,800	30.8	120.8	
	17.236	13.434	4	1	4	25	1	25	0	0	0	0	0	0	0	3,092	25	77,300	36.1	125.3	
II	17.236	26.868	4	2	8	12	2	24	4	8	1	0	0	1	4	1,342	25	33,550	27.0	103.5	
	17.236	26.868	4	2	8	12	1	12	4	4	0	4	1	4	4	2,592	13	33,696	27.1	106.3	
	17.236	26.868	4	2	8	12	1	12	4	4	0	4	1	4	4	3,092	13	40,196	31.1	108.0	
III	21.545	13.434	5	1	5	20	2	40	0	0	0	0	0	0	0	1,342	40	53,680	30.1	115.3	
	21.545	13.434	5	1	5	20	1	20	0	0	0	0	0	0	0	2,592	20	51,840	29.2	114.5	
	21.545	13.434	5	1	5	20	1	20	0	0	0	0	0	0	0	3,092	20	61,840	34.1	118.4	
IV	21.545	26.868	5	2	10	10	2	20	0	0	0	0	0	0	0	1,342	20	26,840	26.1	100.0	
	21.545	26.868	5	2	10	10	1	10	0	0	0	0	0	0	0	2,592	10	25,920	25.5	100.0	
	21.545	26.868	5	2	10	10	1	10	0	0	0	0	0	0	0	3,092	10	30,920	28.8	100.0	
V	25.854	13.434	6	1	6	16	2	32	4	8	1	2	1	4	1	1,342	34	45,628	29.7	113.8	
	25.854	13.434	6	1	6	16	1	16	4	4	0	4	1	2	2	2,592	17	44,064	28.9	113.3	
	25.854	13.434	6	1	6	16	1	16	4	4	0	4	1	2	2	3,092	17	52,564	33.5	116.3	
VI	25.854	26.868	6	2	12	8	2	16	4	8	0	8	1	4	1	1,342	17	22,814	26.4	101.2	
	25.854	26.868	6	2	12	8	1	8	4	4	0	4	1	8	1	2,592	9	23,328	26.7	104.7	
	25.854	26.868	6	2	12	8	1	8	4	4	0	4	1	8	1	3,092	9	27,828	30.0	104.2	
VII	30.163	13.434	7	1	7	14	2	28	2	4	0	4	1	3	1	1,342	29	38,918	29.2	111.9	
	30.163	13.434	7	1	7	14	1	14	2	2	0	2	1	5	1	2,592	15	38,880	29.2	114.5	
	30.163	13.434	7	1	7	14	1	14	2	2	0	2	1	5	1	3,092	15	46,380	33.7	117.0	
VIII	30.163	26.868	7	2	14	7	2	14	2	4	1	10	1	10	1	1,342	15	20,130	27.2	104.2	
	30.163	26.868	7	2	14	7	1	7	2	2	0	2	1	12	2	2,592	8	20,736	27.7	108.6	
	30.163	26.868	7	2	14	7	1	7	2	2	0	2	1	12	12	3,092	8	24,736	30.8	107.0	

TABLE 16.—Men's hosiery, 120 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	<i>S_c</i>
I	13.434	4	1	4	30	2	60	0	0	0	0	0	0	0	0	1,342	60	80,520	37.5	127.9	126.9
	13.434	4	1	4	30	1	30	0	0	0	0	0	0	0	0	2,592	30	77,700	36.3	126.9	126.9
	13.434	4	1	4	30	1	30	0	0	0	0	0	0	0	0	3,092	30	92,700	42.7	132.2	132.2
II	26.868	4	2	8	15	2	30	0	0	0	0	0	0	0	0	1,243	30	40,260	31.1	106.1	105.9
	26.868	4	2	8	15	1	15	0	0	0	0	0	0	0	0	2,592	15	38,880	30.3	105.9	105.9
	26.868	4	2	8	15	1	15	0	0	0	0	0	0	0	0	3,092	15	46,330	34.8	107.7	107.7
III	13.434	5	1	5	24	2	48	0	0	0	0	0	0	0	0	1,342	48	64,416	35.3	120.4	119.6
	13.434	5	1	5	24	1	24	0	0	0	0	0	0	0	0	2,592	24	62,208	34.2	119.6	119.6
	13.434	5	1	5	24	1	24	0	0	0	0	0	0	0	0	3,092	24	74,208	40.1	124.1	124.1
IV	26.868	5	2	10	12	2	24	0	0	0	0	0	0	0	0	1,342	24	32,208	29.7	101.4	101.4
	26.868	5	2	10	12	1	12	0	0	0	0	0	0	0	0	2,592	12	31,104	28.9	101.0	101.0
	26.868	5	2	10	12	1	12	0	0	0	0	0	0	0	0	3,092	12	37,104	33.0	102.2	102.2
V	13.434	6	1	6	20	2	40	0	0	0	0	0	0	0	0	1,342	40	53,680	34.1	116.4	115.7
	13.434	6	1	6	20	1	20	0	0	0	0	0	0	0	0	2,592	20	51,940	33.1	115.7	115.7
	13.434	6	1	6	20	1	20	0	0	0	0	0	0	0	0	3,092	20	61,840	38.6	119.5	119.5
VI	26.868	6	2	12	10	2	20	0	0	0	0	0	0	0	0	1,342	20	26,840	29.3	100.0	100.0
	26.868	6	2	12	10	1	10	0	0	0	0	0	0	0	0	2,592	10	26,920	28.6	100.0	100.0
	26.868	6	2	12	10	1	10	0	0	0	0	0	0	0	0	3,092	10	30,920	32.3	100.0	100.0
VII	13.434	7	1	7	17	2	34	1	2	0	2	1	5	1	5	1,342	35	46,970	34.1	116.4	115.5
	13.434	7	1	7	17	1	17	1	1	0	1	0	1	1	1	2,592	18	44,656	33.0	118.5	118.5
	13.434	7	1	7	17	1	17	1	1	0	1	0	1	1	1	3,092	18	55,656	39.3	121.7	121.7
VIII	26.868	7	2	14	8	2	16	8	8	0	8	0	1	2	1	1,342	18	24,156	30.4	103.8	103.8
	26.868	7	2	14	8	1	8	8	8	0	8	0	1	2	1	2,592	9	23,328	29.7	103.8	103.8
	26.868	7	2	14	8	1	8	8	8	0	8	0	1	2	1	3,092	9	27,828	33.3	103.1	103.1
IX	13.434	8	1	8	15	2	30	0	0	0	0	0	0	0	0	1,342	30	40,260	33.2	113.3	112.9
	13.434	8	1	8	15	1	15	0	0	0	0	0	0	0	0	2,592	15	38,880	32.3	112.9	112.9
	13.434	8	1	8	15	1	15	0	0	0	0	0	0	0	0	3,092	15	46,330	37.3	115.5	115.5
X	26.868	8	2	16	7	2	14	8	8	0	8	0	1	0	0	1,342	15	20,130	30.0	102.4	106.6
	26.868	8	2	16	7	1	7	8	8	0	8	0	1	0	0	2,592	15	26,756	30.5	102.4	106.6
	26.868	8	2	16	7	1	7	8	8	0	8	0	1	0	0	3,092	8	24,736	34.0	106.3	106.3

TABLE 17.—Men's hosiery, improved method of packing, 60 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>	
I	12.177 <i>a</i>	8.684 <i>b</i>	3	1	3	20	2	40	0	0	0	0	0	0	0	0	40	57,360 1.434	18.1 130.3	144.8	
	12.177 <i>a</i>	8.684 <i>b</i>	3	1	3	20	2	40	0	0	0	0	0	0	0	0	40	57,360 1.434	18.1 130.3	144.8	
II	12.177 <i>a</i>	17.368 <i>b</i>	3	2	6	10	2	20	0	0	0	0	0	0	0	0	28,680 1.434	20.9 14.0	105.0	113.0	
III	12.177 <i>a</i>	26.052 <i>b</i>	3	3	9	6	2	12	6	12	1	3	1	6	0	0	20.6	14.0 1.434	14.0 10.1	107.8	111.3
IV	12.177 <i>a</i>	26.052 <i>b</i>	3	3	9	6	2	12	6	12	1	3	1	6	0	0	10.6	14.0 1.434	14.0 10.1	101.1	108.6
V	12.177 <i>a</i>	34.736 <i>b</i>	3	4	12	5	2	10	0	0	0	0	0	0	0	0	10.6	10.1 1.434	10.6 10.1	101.1	108.6
VI	12.177 <i>a</i>	34.736 <i>b</i>	3	4	12	5	2	10	0	0	0	0	0	0	0	0	10.6	10.1 1.434	10.6 10.1	101.1	108.6
VII	16.236 <i>a</i>	26.052 <i>b</i>	4	3	12	5	2	10	0	0	0	0	0	0	0	0	10.6	14.3 1.434	14.3 10.2	102.2	109.2
VIII	16.236 <i>a</i>	26.052 <i>b</i>	4	3	12	5	2	10	0	0	0	0	0	0	0	0	10.6	14.3 1.434	14.3 10.2	102.2	109.2
IX	20.295 <i>a</i>	8.684 <i>b</i>	5	1	5	12	2	24	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
X	20.295 <i>a</i>	17.368 <i>b</i>	5	2	10	6	2	12	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XI	20.295 <i>a</i>	26.052 <i>b</i>	5	3	15	4	2	8	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XII	20.295 <i>a</i>	34.736 <i>b</i>	5	4	20	3	2	6	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XIII	24.354 <i>a</i>	8.684 <i>b</i>	6	1	6	10	2	20	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XIV	24.354 <i>a</i>	17.368 <i>b</i>	6	2	12	5	2	10	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XV	24.354 <i>a</i>	26.052 <i>b</i>	6	3	15	4	2	8	0	0	0	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XVI	24.354 <i>a</i>	34.736 <i>b</i>	6	4	24	2	2	4	12	24	1	0	0	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XVII	28.413 <i>a</i>	8.684 <i>b</i>	7	1	7	8	2	16	4	8	1	1	1	6	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XVIII	28.413 <i>a</i>	17.368 <i>b</i>	7	2	14	4	2	12	2	14	4	8	1	1	6	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XIX	28.413 <i>a</i>	26.052 <i>b</i>	7	3	21	2	4	18	8	1	15	1	1	6	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XX	32.472 <i>a</i>	8.684 <i>b</i>	8	1	8	7	2	14	4	8	1	15	1	0	0	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
XXI	32.472 <i>a</i>	17.368 <i>b</i>	8	2	16	3	2	6	12	24	1	8	1	1	6	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2
	32.472 <i>b</i>	17.368 <i>b</i>	8	2	16	3	2	6	12	24	1	8	1	1	6	0	10.6	17.4 1.434	17.4 10.2	102.2	109.2

CIRCULAR OF THE BUREAU OF STANDARDS

TABLE 18.—Men's hosiery, improved method of packing, 100 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>
I.	12.177	8.684	3	1	3	33	2	66	1	2	0	2	1	1	1	1.434	67	96.078	29.3	146.5
	<i>a</i>															2.184	67	146.328	43.9	146.5
	<i>b</i>															1.324	34	148.756	22.9	114.5
II.	12.177	8.684	3	1	3	33	2	66	1	2	0	2	1	1	1	1.434	67	74.256	21.9	115.6
	<i>a</i>															2.184	34	32.982	23	114.5
	<i>b</i>															1.324	23	50.232	31.1	115.6
III.	12.177	17.368	3	2	6	16	2	32	4	8	1	2	1	1	1	1.434	23	24.378	17	109.5
	<i>a</i>															2.184	23	37.128	17	117.3
	<i>b</i>															1.324	23	30.1	21.8	109.0
IV.	12.177	26.052	3	3	9	11	2	22	1	2	0	2	1	1	1	1.434	23	50.700	26.8	134.0
	<i>a</i>															2.184	23	109.200	39.8	150.2
	<i>b</i>															1.324	23	35.850	25	103.0
V.	12.177	34.736	3	4	12	8	2	16	4	8	0	8	0	0	0	1.434	25	54.600	29.4	110.9
	<i>a</i>															2.184	25	28.332	13	105.0
	<i>b</i>															1.324	25	18.632	21.0	105.0
VI.	16.236	8.684	4	1	4	25	2	50	0	0	0	0	0	0	0	1.434	25	27.9	27.7	104.5
	<i>a</i>															2.184	25	40	87.360	37.6
	<i>b</i>															1.324	25	20	28.680	20.0
VII.	16.236	26.052	4	3	12	8	2	16	4	8	0	8	1	1	1	1.434	25	20	100.0	104.5
	<i>a</i>															2.184	25	43.680	27.7	104.5
	<i>b</i>															1.324	25	20.0	20.3	101.5
VIII.	16.236	34.736	4	4	16	6	2	12	4	8	0	8	1	1	1	1.434	25	30.576	27.0	101.9
	<i>a</i>															2.184	25	12.360	25.5	127.5
	<i>b</i>															1.324	25	28.332	13	105.3
IX.	20.295	8.684	5	1	5	15	5	20	2	40	0	0	0	0	0	1.434	25	18.632	21.0	141.9
	<i>a</i>															2.184	25	20	28.680	20.0
	<i>b</i>															1.324	25	43.680	27.7	104.5
X.	20.295	17.368	5	2	10	20	2	20	0	0	0	0	0	0	0	1.434	25	20.0	100.0	104.5
	<i>a</i>															2.184	25	12.360	25.5	127.5
	<i>b</i>															1.324	25	28.332	13	105.3
XI.	20.295	26.052	5	3	15	6	2	12	10	20	1	5	1	10	1	1.434	25	12.360	25.5	127.5
	<i>a</i>															2.184	25	20.0	100.0	104.5
	<i>b</i>															1.324	25	43.680	27.7	104.5
XII.	20.295	34.736	5	4	20	5	2	10	0	0	0	0	0	0	0	1.434	25	14.340	20.8	104.0
	<i>a</i>															2.184	25	21.840	25.5	126.5
	<i>b</i>															1.324	25	34.875	37.0	139.6
XIII.	24.354	8.684	6	1	6	16	2	32	4	8	1	2	1	1	1	1.434	25	17.375	20.0	100.0
	<i>a</i>															2.184	25	37.198	27.4	103.4
	<i>b</i>															1.324	25	17.208	20.9	104.5
XIV.	24.354	17.368	6	2	12	8	2	16	4	8	0	8	1	1	1	1.434	25	26.208	27.2	102.6
	<i>a</i>															2.184	25	12.360	22.3	111.5
	<i>b</i>															1.324	25	19.656	27.9	105.3
XV.	24.354	26.052	6	3	18	5	2	10	10	20	1	2	1	16	16	1.434	25	21.840	25.5	126.5
	<i>a</i>															2.184	25	34.875	37.0	139.6
	<i>b</i>															1.324	25	17.375	20.0	100.0
XVI.	24.354	34.736	6	4	24	4	2	8	4	8	0	8	1	16	16	1.434	25	12.360	22.3	111.5
	<i>a</i>															2.184	25	19.656	27.9	105.3
	<i>b</i>															1.324	25	21.840	25.5	126.5
XVII.	28.413	8.684	7	1	7	14	2	28	2	4	0	4	1	3	3	1.434	25	41.586	24.9	124.5
	<i>a</i>															2.184	25	63.356	36.1	136.2
	<i>b</i>															1.324	25	21.510	20.5	102.5
XVIII.	28.413	17.368	7	2	14	7	2	14	2	4	0	4	1	10	10	1.434	25	32.760	27.7	104.5
	<i>a</i>															2.184	25	14.340	21.1	105.5
	<i>b</i>															1.324	25	21.840	25.5	126.5
XIX.	28.413	26.052	7	3	21	4	2	8	16	32	1	11	1	10	10	1.434	25	21.840	25.5	126.5
	<i>a</i>															2.184	25	34.875	37.0	139.6
	<i>b</i>															1.324	25	17.375	20.0	100.0
XX.	28.413	34.736	7	3	21	4	2	8	16	32	1	11	1	10	10	1.434	25	21.840	25.5	126.5
	<i>a</i>															2.184	25	34.875	37.0	139.6
	<i>b</i>															1.324	25	17.375	20.0	100.0
XXI.	32.472	8.684	8	1	8	12	2	24	4	8	1	0	0	0	0	1.434	25	54.600	35.1	132.4
	<i>a</i>															2.184	25	18.632	21.0	103.5
	<i>b</i>															1.324	25	20.0	20.7	103.8
XXII.	32.472	17.368	8	2	16	6	2	12	4	8	0	8	1	8	1	1.434	25	28.332	27.5	103.8
	<i>a</i>															2.184	25	12.360	22.3	111.5
	<i>b</i>															1.324	25	19.656	27.9	105.3

TABLE 19.—Men's hosiery, improved method of packing, 120 dozen to case

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S_a</i>	<i>S_b</i>
I	12.177	8.684	3	1	3	40	2	80	0	0	0	0	0	0	0	1,434	80	114,720	34.7	157.0
II	12.177	8.684	3	1	3	40	2	80	0	0	0	0	0	0	0	2,184	80	174,720	52.1	175.4
III	12.177	17.368	3	2	6	20	2	40	0	0	0	0	0	0	0	1,434	40	57,360	26.5	119.9
IV	12.177	26.052	3	3	9	13	2	26	3	6	0	0	0	0	0	2,184	3	1,434	27	38,718
V	12.177	34.736	3	4	12	10	2	26	3	6	1	3	0	0	0	2,184	27	58,968	25.0	113.1
VI	12.177	42.413	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	0	20,680	24.5	120.2
VII	12.177	50.092	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	20	43,680	24.5	110.9
VIII	12.177	57.768	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	20	43,680	34.3	115.5
IX	12.177	65.444	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	60	86,040	31.7	143.4
X	12.177	73.120	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	60	131,040	47.3	159.2
XI	12.177	80.796	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	30	43,020	24.0	108.6
XII	12.177	88.472	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	30	65,520	34.5	116.1
XIII	12.177	96.148	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	20	28,680	22.7	102.7
XIV	12.177	103.824	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	20	43,680	23.1	104.5
XV	12.177	111.499	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	15	21,510	21.5	104.4
XVI	12.177	119.175	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	15	32,760	31.0	104.4
XVII	12.177	126.851	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	48	68,832	30.2	136.6
XVIII	12.177	134.527	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	48	104,832	44.6	150.1
XIX	12.177	142.203	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	24	34,416	22.9	103.6
XX	12.177	150.279	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	24	52,416	32.3	103.8
XXI	12.177	157.955	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	16	22,944	22.1	100.0
XXII	12.177	165.631	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	16	34,944	29.8	100.3
XXIII	12.177	173.307	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	22.9	103.6
XXIV	12.177	180.983	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	12	20,208	29.8	100.3
XXV	12.177	188.659	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	40	57,360	29.3	132.6
XXVI	12.177	196.335	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	40	87,360	43.0	144.8
XXVII	12.177	204.011	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	20	28,360	22.9	101.8
XXVIII	12.177	211.687	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	20	43,680	31.2	105.0
XXIX	12.177	219.363	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	14	20,076	22.9	103.6
XXX	12.177	226.039	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	14	30,576	30.2	101.7
XXXI	12.177	233.715	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	10	14,340	23.5	106.3
XXXII	12.177	241.391	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XXXIII	12.177	248.067	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	40	57,360	29.3	132.6
XXXIV	12.177	255.743	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	40	87,360	43.0	144.8
XXXV	12.177	263.419	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	20	28,360	22.9	101.8
XXXVI	12.177	271.095	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	20	43,680	31.2	105.0
XXXVII	12.177	278.771	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	14	20,076	22.9	103.6
XXXVIII	12.177	286.447	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	14	30,576	30.2	101.7
XXXIX	12.177	294.123	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	10	14,340	23.5	106.3
XL	12.177	301.799	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLI	12.177	309.475	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLII	12.177	317.151	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLIII	12.177	324.827	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	18	25,812	23.3	105.4
XLIV	12.177	332.503	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	18	39,312	31.9	107.4
XLV	12.177	340.179	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	23.3	106.3
XLVI	12.177	347.855	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLVII	12.177	355.531	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLVIII	12.177	363.207	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLIX	12.177	370.883	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	18	25,812	23.3	105.4
XLX	12.177	378.559	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	18	39,312	31.9	107.4
XLXI	12.177	386.235	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	23.3	106.3
XLII	12.177	393.911	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLIII	12.177	401.587	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLIV	12.177	409.263	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLV	12.177	416.939	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	18	25,812	23.3	105.4
XLVI	12.177	424.615	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	18	39,312	31.9	107.4
XLVII	12.177	432.291	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	23.3	106.3
XLVIII	12.177	439.967	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLIX	12.177	447.643	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLX	12.177	455.319	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLXI	12.177	462.995	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	18	25,812	23.3	105.4
XLII	12.177	470.671	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	18	39,312	31.9	107.4
XLIII	12.177	478.347	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	23.3	106.3
XLIV	12.177	485.023	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLV	12.177	492.699	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLVI	12.177	500.375	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLVII	12.177	508.051	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	18	25,812	23.3	105.4
XLVIII	12.177	515.727	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	18	39,312	31.9	107.4
XLIX	12.177	523.403	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	12	17,208	23.3	106.3
XLX	12.177	531.079	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	10	21,840	29.7	100.0
XLXI	12.177	538.755	3	4	12	10	2	20	0	0	0	0	0	0	0	1,434	35	50,190	29.3	132.6
XLII	12.177	546.431	3	4	12	10	2	20	0	0	0	0	0	0	0	2,184	35	76,440	42.8	144.1
XLIII</																				

TABLE 20.—Summary of minimum areas. Area of the surface and the dimensions of the arrangement of boxes in layers which will permit a minimum surface area. Arrangement dimensions given in nearest one-eighth of an inch. For more accurate figures, see tables.

TABLE 21.—*Sizes for use when manufacturer ships all styles*

Type	60 dozen			100 dozen			120 dozen			Description
	Inches	Width	Length	Inches	Width	Length	Inches	Width	Length	
Ladies' hosiery, three-fold.	31	28 $\frac{1}{2}$	16 $\frac{1}{2}$	13 $\frac{1}{2}$	31	28 $\frac{1}{2}$	22 $\frac{1}{2}$	20 $\frac{1}{2}$	27 $\frac{1}{2}$	All silk hose. Boot silk, mercerized, and light-weight cotton. Boot silk hose. Mercerized and boot silk. Do.
Ladies' hosiery, two-fold, folded in ankle of heel.	31	24 $\frac{1}{2}$	16 $\frac{1}{2}$	19 $\frac{1}{2}$	22 $\frac{1}{2}$	31	24 $\frac{1}{2}$	26 $\frac{1}{2}$	30 $\frac{1}{2}$	Sheer mercerized hose. Boot silk, mercerized, and light-weight cotton. Medium-weight cotton. Heavy-weight cotton. Mercerized and boot silk. Light-weight cotton. Medium-weight cotton. Heavy-weight cotton.
Ladies' hosiery, two-fold, folded in gore of heel.	31	26 $\frac{1}{2}$	16 $\frac{1}{2}$	19 $\frac{1}{2}$	22 $\frac{1}{2}$	31	26 $\frac{1}{2}$	26 $\frac{1}{2}$	31	Sheer mercerized hose. Boot silk, mercerized, and light-weight cotton. Medium-weight cotton. Heavy-weight cotton. Boot silk and mercerized. Light-weight cotton. Medium-weight cotton. Heavy-weight cotton.
Men's hosiery.	21 $\frac{1}{2}$	26 $\frac{1}{2}$	16 $\frac{1}{2}$	15 $\frac{1}{2}$	21 $\frac{1}{2}$	26 $\frac{1}{2}$	26 $\frac{1}{2}$	26 $\frac{1}{2}$	31	Silk, mercerized, and light-weight cotton. Do. Heavy mercerized cotton.
Men's hosiery, improved method of packing.	20 $\frac{1}{2}$	17 $\frac{1}{2}$	17 $\frac{1}{2}$	26 $\frac{1}{2}$	20 $\frac{1}{2}$	34 $\frac{1}{2}$	14 $\frac{1}{2}$	21 $\frac{1}{2}$	20 $\frac{1}{2}$	Silk. Mercerized and cotton hose.

VI. UTILITY AND CONSIDERATION FOR THE USE OF THESE DIMENSIONS

These calculations have been based on the standard hosiery box dimensions. It must be remembered that the calculated dimensions given are not the inside dimensions of the packing case, but are the outside dimensions of the assembly of empty hosiery boxes arranged as indicated.

In the summary of minimum areas, Table 20, there have been collected all the arrangements which resulted in a minimum surface area. Table 20 will be useful to any manufacturer who ships only a few of these styles, for he can select from the list the arrangement resulting in the greatest economy.

In Table 21 there has been prepared a list of the dimensions of the arrangements of boxes for the use of manufacturers shipping all styles. These dimensions were obtained by selecting the length and width dimensions which would permit the smallest area when all styles of hosiery of a certain type were considered. To use these dimensions it is necessary in a few instances to use a case slightly larger than the minimum given in Table 20, but it is thought that the saving resulting from the cutting of lumber or the manufacture of these boxes on a large production basis will warrant this.

Since there is a tendency among the more progressive manufacturers toward the use of the standard hosiery boxes exclusively, the measurements given herein will serve as a means of supplying them with the dimensions for the most efficient hosiery case.

There is a practice among packers of hosiery to make a slight additional allowance in the width and height of the hosiery case, so that more rapid packing may be obtained. This should not be carried to the point where the boxes are packed loosely in the case, for it is this constant shifting of the boxes which causes the greatest amount of breakage.

When the standard hosiery box dimensions were investigated, it was decided not only to make the hosiery fit snugly in the length and width, but to make the height slightly less, so that a slight compression would result. The reason for this was that the hosiery would act as a support for the box and, in addition, insure the presentation to view of unrumped hosiery when the box was opened.

This compression feature will be nullified if the case is made with too large a tolerance in the height. It may be well to sacrifice a slight loss in time of packing to obtain better conditions of the finished product at the receiving end. However, the necessity for some slight tolerance is obvious to take care of variations in the thickness of the

cardboard and covering paper and variations in the dimension of the box. It should be remembered that the thickness of box and cover paper which was added in these calculations was the maximum thickness of available boxes.

The actual tolerance for any type is a matter of individual experience and depends somewhat on the method of placing the boxes for packing. This can be taken care of individually by each manufacturer.

VII. SUMMARY AND CONCLUSIONS

There has been presented here a method of calculating the most economical case for packing hosiery boxes, and by using this method the most desirable arrangement for each type of hosiery has been selected. These calculations have been based on the standard hosiery box dimensions, but a suggestion for obtaining the dimensions of a case when other than the standard boxes are used is given.

The most desirable feature which recommends the use of these standard cases is the reduction of waste material in the construction of the case. The case with the smallest surface is most economical where other packing considerations are similar. Considered from the standpoint of a single case, the saving may be small, but the large quantity of hosiery shipped in cases makes this saving of primary importance.

The adoption of the suggestion regarding the use of the dimensions in Table 21 by manufacturers of all styles of hosiery will promote better and more efficient packing and shipping systems by those manufacturers, since the lengths and widths can be readily determined by this method, large quantities of this lumber can be made up and stored for convenient use. This plan might also be followed by the manufacturers of one or two styles.

The adoption of uniform sizes of cases should be welcomed by the jobber, for he could then be better enabled to plan his storage space to the best advantage. Manufacturers of special types of cases would benefit also by the general adoption of these cases, for not only would the cost per case be reduced by any reduction in the surface area, but the parts could be made up on a large quantity production basis for the market would be certain.

VIII. APPENDIX

Ratios of the sides of a hexahedron to give minimum surface for a given volume:

Let the sides of the hexahedron be $a, ka, ca; k$ and c being ratios and a the largest side.

Then the volume (V) and surface (S) are, respectively,

$$V = a^3kc \quad (1)$$

$$S = 2a^2(k+c+kc) \quad (2)$$

By substituting for a from (1) into (2) there is obtained:

$$S = 2V^{2/3} \cdot \frac{k+c+kc}{(kc)^{2/3}} \quad (3)$$

$$\frac{\delta S}{\delta k} = 2/3 \left(\frac{V}{kc}\right)^{2/3} \left(1+c-2\frac{c}{k}\right), \quad \frac{\delta S}{\delta c} = 2/3 \left(\frac{V}{kc}\right)^{2/3} \left(1+k-2\frac{k}{c}\right) \quad (4)$$

for V fixed, S is a minimum at

$$\frac{\delta S}{\delta k} = \frac{\delta S}{\delta c} = 0$$

The zero values of the partial derivatives determine, respectively ($k, c, \neq 0$),

$$k = \frac{2c}{1+c} \quad (5_1)$$

$$c = \frac{2k}{1+k} \quad (5_2)$$

Hence, for V and k fixed, minimum S determines $c = \frac{2k}{1+k}$, which gives by substituting in (2)

$$S = 6ka^2 \quad (6)$$

For V above fixed, minimum S determined by simultaneous solution of (5₁) and (5₂)

$$k = c = 1 \quad (7)$$

Therefore, the cube is the hexahedron of minimum surface.

In order to make use of values for a , ka , and ca , different values have been assigned to k , and the ratios of the sides have been found which will give minimum surfaces for the conditions when one side is equal to the other multiplied by a constant. These ratios are given in Table 1.

TABLE 1.—The ratio of the sides for different values of k , when $k = \frac{2c}{1+c}$

Condition	Ratios
1-----	$a:ka:ca = 1:1:1 = 30:30:30$
2-----	$a:ka:ca = 2:1:4/3 = 60:30:40$
3-----	$a:ka:ca = 3:1:3/2 = 90:30:45$
4-----	$a:ka:ca = 4:1:8/5 = 120:30:48$
5-----	$a:ka:ca = 5:1:5/3 = 150:30:50$
6-----	$a:ka:ca = 1/2:1:2/3 = 15:30:20$

In order to show what the effect would be if this side were increased or decreased from the value which provides a minimum surface condition, this was calculated in terms of surface per unit volume, the results of which are given in Tables 2 to 7. These results are plotted in Figure 1. The less the surface per unit of volume the more economical the box. The value of ca has been taken in the tables such that the curves for all cases would be comparative. The curve holds for any multiple or division of the values for ca , since the surface per unit of volume is a unit quantity.

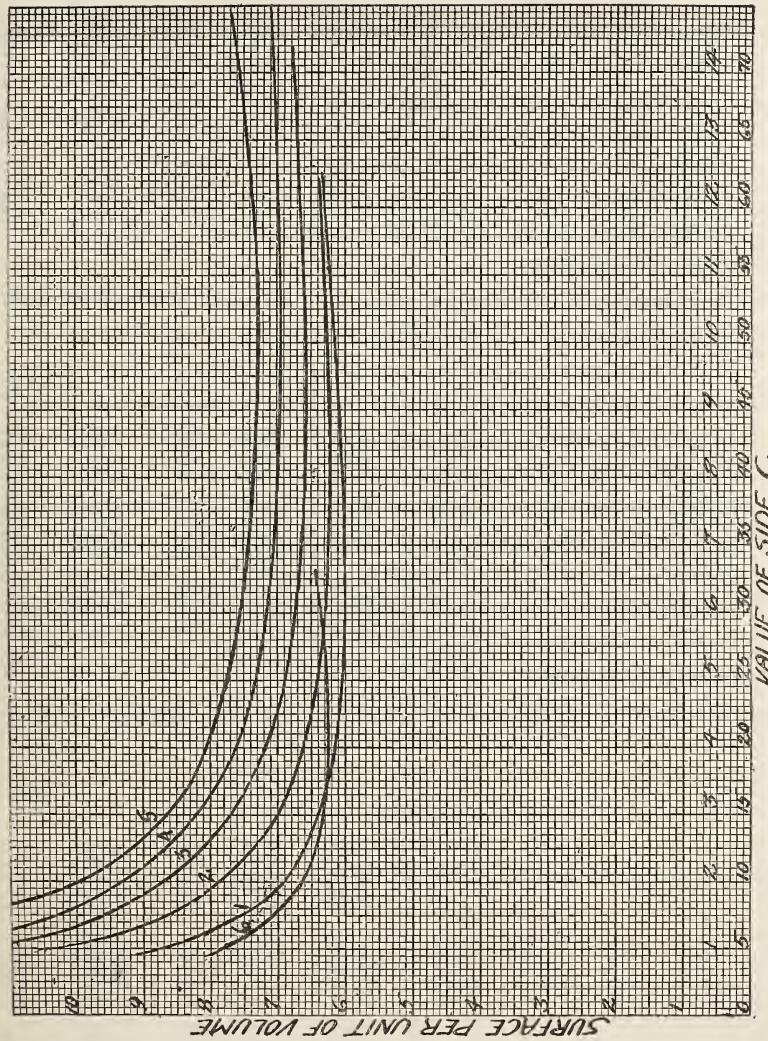


FIG. 1.—The relation of surface per unit volume to value of side c

TABLE 2.—*Condition 1, varying ca when k=1 the ratio a:ka:ca=1:1:1=30:30:30=minimum*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5.	4,500	16.51	272.3	2,400	8.80
10.	9,000	20.80	432.6	3,000	6.94
15.	13,500	23.81	566.4	3,600	6.36
20.	18,000	26.21	686.4	4,200	6.14
25.	22,500	28.24	795.2	4,800	6.04
30.	27,000	30.00	900.0	5,400	6.00
35.	31,500	31.60	998.6	6,000	6.02
40.	36,000	33.02	1,089.0	6,600	6.07
45.	40,500	34.38	1,183.4	7,200	6.08
50.	45,000	35.57	1,267.4	7,800	6.16
55.	49,500	36.78	1,354.2	8,400	6.20
60.	54,000	37.80	1,428.8	9,000	6.31

S/V^{2/3}=surface per unit of volume.TABLE 3.—*Condition 2, varying ca when k=2 the ratio a:ka:ca=6:3:4=60:30:40*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5.	9,000	20.80	432.6	4,500	10.4
10.	18,000	26.20	686.4	5,400	7.86
15.	27,000	30.00	900.0	6,300	7.00
20.	36,000	33.02	1,089.0	7,200	6.61
25.	45,000	35.57	1,267	8,100	6.41
30.	54,000	37.80	1,429	9,000	6.30
35.	63,000	39.79	1,584	9,900	6.25
40.	72,000	41.60	1,731	10,800	6.23
45.	81,000	43.27	1,875	11,700	6.24
50.	90,000	44.81	2,007	12,600	6.26
55.	99,000	46.26	2,144	13,500	6.28
60.	108,000	47.62	2,266	14,400	6.34

S/V^{2/3}=surface per unit of volume.TABLE 4.—*Condition 3, varying ca when k=3 the ratio a:ka:ca=6:2:3=90:30:45*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5.	13,500	23.83	566.4	6,600	11.7
10.	27,000	30.00	900	7,800	8.67
15.	40,500	34.39	1,183	9,000	7.60
20.	54,000	37.80	1,429	10,200	7.15
25.	67,500	40.80	1,664	11,400	6.86
30.	81,000	43.27	1,875	12,600	6.73
35.	94,500	45.58	2,079	13,800	6.65
40.	108,000	47.62	2,266	15,000	6.62
45.	121,500	49.58	2,460	16,200	6.55
50.	135,000	51.30	2,632	17,400	6.62
55.	148,500	53.00	2,809	18,600	6.64
60.	162,000	54.51	2,970	19,800	6.67
65.	175,500	56.00	3,136	21,000	6.70
70.	189,000	57.39	3,283	22,200	6.76

S/V^{2/3}=Surface per unit of volume.

TABLE 5.—*Condition 4, varying ca when k=4 the ratio a:ka:ca=20:5:8=120:30:48*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5	18,000	26.20	686	8,700	12.7
10	36,000	33.02	1,059	10,200	9.38
15	54,000	37.80	1,428	11,700	8.21
20	72,000	41.60	1,730	13,200	7.63
25	90,000	44.81	2,007	14,700	7.30
30	108,000	47.62	2,268	16,200	7.14
35	126,000	50.13	2,510	17,700	7.05
40	144,000	52.41	2,746	19,200	6.99
45	162,000	54.51	2,970	20,700	6.97
48	172,800	55.70	3,102	21,600	6.95
50	180,000	56.46	3,192	22,200	6.96
55	198,000	58.29	3,399	23,700	6.98
60	216,000	60.00	3,600	25,200	7.00
65	234,000	61.62	3,795	26,700	7.04

S/V^{2/3}=surface per unit of volume.TABLE 6.—*Condition 5, varying ca when k=5 the ratio a:ka:ca=15:3:5=150:30:50*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5	22,500	28.25	795.2	10,800	13.6
10	45,000	35.57	1,267	12,600	9.95
15	67,500	40.80	1,665	14,400	8.65
20	90,000	44.81	2,007	16,200	8.05
25	112,500	48.20	2,323	18,000	7.74
30	135,000	51.30	2,632	19,800	7.54
35	157,500	54.01	2,916	21,600	7.43
40	180,000	56.46	3,192	23,400	7.34
45	202,500	58.80	3,451	25,200	7.30
50	225,000	60.82	3,710	27,000	7.28
55	247,500	62.85	3,956	28,800	7.30
60	270,000	64.63	4,173	30,600	7.34
65	292,500	66.49	4,422	32,400	7.34
70	305,000	67.31	4,529	34,200	7.53
75	327,500	68.97	4,761	36,000	7.56

S/V^{2/3}=surface per unit of volume.TABLE 7.—*Condition 6, varying ca when k=½ the ratio a:ka:ca=3:6:4=15:30:20*

<i>ca</i>	<i>V</i>	<i>V^{1/3}</i>	<i>V^{2/3}</i>	<i>S</i>	<i>S/V^{2/3}</i>
5	2,250	13.11	171.6	1,350	7.88
10	4,500	16.51	272.3	1,800	6.62
15	6,750	18.92	357.2	2,250	6.33
20	9,000	20.80	432.6	2,700	6.25
25	11,250	22.41	501.8	3,150	6.28
30	13,500	23.83	566.4	3,600	6.36

S/V^{2/3}=surface per unit of volume.

WASHINGTON, February 25, 1924.



