National Bureau of Standards

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CS33-43. Knit Underwear (Exclusive of Rayon). Kelerence book not to be taken from the Library.

# U. S. DEPARTMENT OF COMMERCE

JESSE H. JONES, Secretary

#### NATIONAL BUREAU OF STANDARDS

LYMAN J. BRIGGS, Director

# KNIT UNDERWEAR

(Exclusive of Rayon)

(SECOND EDITION)

## **COMMERCIAL STANDARD CS33-43**

(Supersedes CS33-32)

Effective Date for New Production from July 30, 1943



# A RECORDED VOLUNTARY STANDARD OF THE TRADE

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1943

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## PROMULGATION

of

### COMMERCIAL STANDARD CS33-43

for

# KNIT UNDERWEAR (EXCLUSIVE OF RAYON)

(Second Edition)

On February 19, 1931, a general conference of representative manufacturers, distributors, and users adopted a commercial standard for Knit Underwear (Exclusive of Rayon), which was subsequently accepted by the trade and promulgated as Commercial Standard CS33-32, effective for new production from January 1, 1932.

On March 3, 1942, the Underwear Institute requested that the commercial standard be revised. Accordingly, a revision that included 30 additional garments was circulated for acceptance. Those concerned have since accepted and approved the revised standard as shown herein for promulgation by the U. S. Department of Commerce, through the National Bureau of Standards.

The standard is effective for new production from July 30, 1943.

Promulgation recommended.

I. J. Fairchild, Chief, Division of Trade Standards.

Promulgated.

Lyman J. Briggs,
Director, National Bureau of Standards.

Promulgation approved.

Jesse H. Jones, Secretary of Commerce.

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# KNIT UNDERWEAR (EXCLUSIVE OF RAYON)

(Second Edition)

## COMMERCIAL STANDARD CS33-43

### PART I. GENERAL

1. Purpose.—This standard is established for the guidance of producers, distributors, and users to eliminate confusion in measurements and methods of measuring knit underwear (exclusive of rayon) and provides standard measurements and methods to serve as a basis

for guaranteeing full size.

2. Scope.—This standard covers standard methods of measuring and standard measurements for knit underwear (exclusive of rayon) for boys, children, infants, men, and women. It includes recommended symbols for designating different models, underwear box sizes, cone colors for single cotton yarns, methods of washing wool and woolcotton underwear, and a recommended uniform wording of a label to guarantee full size.

3. Application and size designations.—The methods and measurements given herein are applicable to finished garments as delivered by the manufacturer. All measurements are in inches. Unless otherwise indicated, "size (inches)" refers to basic body measurements (chest or waist). It is of course understood that the word "Age", when used as a size designation, does not mean that the garment

indicated will fit every individual of that age.

# PART II. METHODS OF MEASURING—GENERAL

4. The garment to be measured is laid out without tension on a smooth flat surface so that creases and wrinkles will not affect the measurements. A steel tape is recommended as being more convenient and accurate than other ordinary measuring devices.

5. Accuracy.—Measurements are taken to the nearest eighth of an

inch.

#### BANDS-INFANTS'

6. Width of garment.—Measured across garment 1 inch below bottom of armholes. (From H to J, fig. 1.)

7. Total length.—Measured from center of shoulder strap to bottom edge of garment. (From A to B, fig. 1.)

8. Width of shoulder strap.—Measured across strap. (From E to

9. Length of shoulder strap.—Measured from point where shoulder strap joins body of garment to top edge of strap. (From D to G, fig. 1.)

10. Circumference of armhole.—Measured around armhole. (From

F to N, fig. 1.)
11. Circumference of neck opening.—Measured around neck opening (fig. 1).

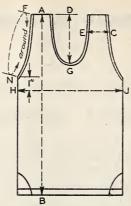


FIGURE 1.—Bands—infants'.

### DRAWERS-BOYS', CHILDREN'S AND MEN'S RIBBED AND FLAT KNIT

12. Total length.-Measured from outside edge of wasitband to

outside lower edge of leg cuff. (From A to B, fig. 2.)

13. Waist.—Twice the distance between the outside edges of waistband when garment is buttoned and spread out smoothly. (Twice A to C, fig. 2.)

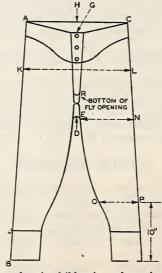


FIGURE 2.—Drawers—boys', children's and men's ribbed and flat knit.

14. Width across seat.—Measured across back of garment at a point half-way between bottom of crotch and top edge of waistband. (From K to L, fig. 2.)

15. Width of thigh.—Measured across leg at bottom of crotch. (From E to N, fig. 2.)

16. Width of calf.-Measured across leg at point 10 inches above

bottom of leg cuff. (From O to P, fig. 2.)

17. Front rise.—Measured from bottom of crotch up front of buttoned garment to middle point of front edge of waistband. (From D to G, fig. 2.)

18. Back rise.—Measured from bottom of crotch up back of garment

to middle point of back edge of waistband. (From D to H, fig. 2.)

19. Front opening.—Measured from bottom point of opening at fastening to top edge of waistband, garment buttoned. (From R to 6, fig. 2.)
20. Leg cuff length.—Measured from middle of seam attaching cuff

to leg to outside bottom edge of cuff. (From J to B, fig. 2.)

## SHIRTS—BOYS', CHILDREN'S, AND MEN'S RIBBED AND FLAT KNIT

21. Width of garment.—Measured across buttoned garment 1 inch below bottom of armholes. (From H to J, fig. 3.)

22. Total length.—Measured from a point where shoulder joins collarette or neck opening to bottom edge of shirt. (From A to B,

fig. 3.)
23. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G,

fig. 3.)
24. Armhole length.—Measured from the point where sleeve is attached to shoulder to lowest point under arm. (From F to N, fig. 3.)

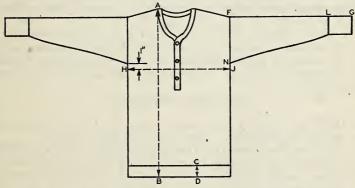


FIGURE 3.—Shirts—boys', children's, and men's ribbed and flat knit.

25. Sleeve cuff length.—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff. (From L to G, fig. 3.)

26. Neck opening.—Measured from center of button around lower edge of neck opening to outside end of buttonhole. (From X to Y, fig. 7, A.)

27. Border rib length.—(For flat knit wool and wool mixed shirt only.) Measured from middle of seam attaching rib to edge of shirt to bottom edge of border rib. (From C to D, fig. 3.)

# SHIRTS, ATHLETIC—BOYS' AND MEN'S RIBBED $(1\times1)$ PANEL RIBBED, SWISS RIBBED, AND FLAT KNIT

28. Width of garment.—Measured across garment 1 inch below bottom of armholes. (From H to J, fig. 4.)

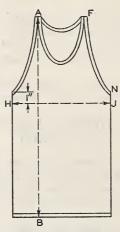


Figure 4.—Shirts, athletic—boys' and men's ribbed  $(1 \times 1)$  panel ribbed, swiss ribbed, and flat knit.

29. Total length.—Measured from center of shoulder strap to bottom edge of shirt. (From A to B, fig. 4.)

30. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm.

(From F to N, fig. 4.)

31. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point, or twice the distance across aperture of collarette opening secured by grasping opposite sides of collarette and bringing the two opposite edges parallel.

### SHIRTS-INFANTS'

32. Width of garment.—Measured across buttoned garment 1 inch below bottom of armholes. (From H to J, figs. 5 and 6.)

33. Total length.—Measured from point where top of shoulder joins neck opening to bottom edge of garment. (From A to B, figs. 5 and 6.)

34. Sleeve length (long or short sleeves).—Measured from point under arm where sleeve is seamed to garment to lower outer edge of sleeve. (From F to G, figs. 5 and 6.)

35. Armhole length.—Measured from point where sleeve is attached to should not a lowest point under arm. (From F to N for 5 and 6)

to shoulder to lowest point under arm. (From F to N, figs. 5 and 6.) 36. Circumference of neck opening.—Measured from point where top of shoulder joins neck opening around opening and back to starting point, garment buttoned. (From A to D and around back to A, figs. 5 and 6.)

HED

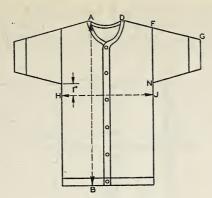


FIGURE 5.—Shirts—infants'.

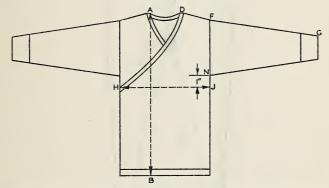


FIGURE 6.—Shirts—infants' high neck, long sleeve, double-breasted.

# UNION SUITS—BOYS', CHILDREN'S AND MEN'S RIBBED AND FLAT KNIT

37. Width of garment.—Measured across buttoned garment 1 inch

below bottom of armholes. (From H to J, fig. 7.)

38. Trunk.—Twice the distance from point where shoulder joins collarette to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch. (Twice C to D, fig. 7.)

39. Total length.—Measured from point where shoulder joins collarette to outside bottom edge of leg cuff. (From A to B, fig. 7.)

40. Width of leg.—Measured across leg of suit 4 inches below point D, fig. 7, for boys' and children's suits, and 6 inches below point D, figure 7, for men's suits. This measurement must equal one-half width of garment within tolerance of 1 inch, plus or minus. (From O to P, fig. 7.)

41. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G,

fig. 7.)

42. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under the arm. (From F to N, fig. 7.)

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43. Leg cuff length.—Measured from middle of seam attaching cuff to leg to outside bottom edge of cuff. (From K to B, fig. 7.)

44. Sleeve cuff length.—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff. (From L to G, fig. 7.)

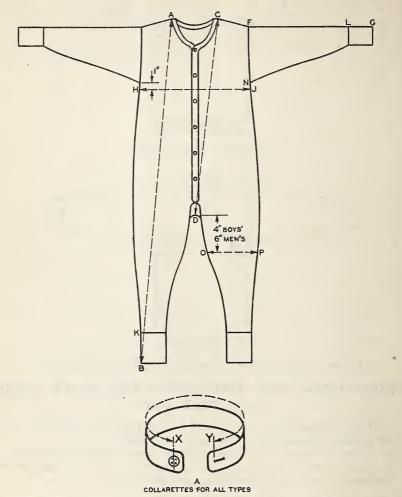


FIGURE 7.—Union suits—boys', children's, and men's ribbed and flat knit.

45. Collarette length.—Measured from center of collarette button around lower edge of collarette to outside end of buttonhole. (From X to Y, fig. 7, A.)

# UNION SUITS, ATHLETIC—BOYS' AND MEN'S RIBBED $(1\times1)$ PANEL RIBBED, SWISS RIBBED, AND FLAT KNIT

46. Width of garment.—Measured across garment 1 inch below bottom of armholes. (From H to J, fig. 8.)

47. Trunk.—Twice the distance measured from point where shoulder joins collarette to center of bottom line of gusset at crotch. Spread

legs in measuring only sufficiently to adjust crotch. (Twice C to D, fig. 8.)

48. Total length.—Measured from center of shoulder strap to bottom

edge of leg. (From A to B, fig. 8.)

49. Width across bottom of leg.—Measured across leg along lower

50. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. (From F to N, fig. 8.)

51. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point, or

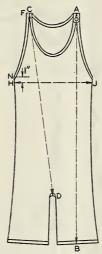


FIGURE 8.—Union suits, athletic—boys' and men's ribbed  $(1 \times 1)$  panel ribbed, swiss ribbed, and flat knit.

twice the distance across aperture of collarette opening secured by grasping opposite sides of collarette and bringing the two opposite edges parallel.

# UNION SUITS-WOMEN'S RIBBED (1×1)

52. Width of garment.—Measured across buttoned garment 1 inch

below bottom of armholes. (From H to J, fig. 9.)

53. Trunk.—Twice the distance measured from point where shoulder joins neck opening to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch. (Twice C to D, fig. 9.)

54. Total length.—Measured from point where shoulder joins neck opening to bottom edge of leg or leg cuff if cuff is used. (From A to B,

fig. 9.)

55. Width of leg.—Measured across leg of suit 6 inches below point D (fig. 9) and must equal one-half width of garment within tolerance

of 1 inch, plus or minus. (From O to P, fig. 9.)

56. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve or sleeve cuff if cuff is used. (From F to G, fig. 9.)

57. Armhole length.—Measured from point where sleeve is attached

to shoulder to lowest point under arm. (From F to N, fig. 9.)

58. Leg cuff length.—Measured from middle of seam attaching cuff to leg to outside bottom edge of cuff, if cuff is used. (From K to B, fig. 9.)

59. Sleeve cuff length.—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff, if cuff is used. (From

*L to G*, fig. 9.)

60. Neck opening.—Measured from center of neck opening or collarette button around inner edge of neck opening to outside end of buttonhole.

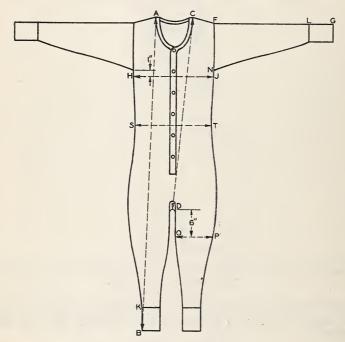


FIGURE 9.—Union suits—women's ribbed  $(1 \times 1)$ .

61. Waist.—Twice the distance measured across the garment at the narrowest part of the body of the garment. (Twice S to T, fig. 9.)

# UNION SUITS—WOMEN'S RIBBED (1×1) COTTON

# LOW NECK, NO SLEEVES, KNEE LENGTH, BUILT-UP SHOULDER, TIGHT KNEE

62. Width of garment.—Measured across garment 1 inch below

bottom of armholes. (From H to J, fig. 10.)

63. Trunk.—Twice the distance measured from upper edge of shoulder straps to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch gusset. (Twice C to D, fig. 10.)

64. Total length.—Measured from center of shoulder straps to bot-

tom edge of leg. (From A to B, fig. 10.)

65. Armhole length.—Measured from top point of armhole of shoulder along outer edge of armhole to lowest point under arm. (From

F to N, fig. 10.)
66. Neck opening.—Measured around inner edge of neck opening.

67. Waist.—Twice the distance measured across the garment at the narrowest point of the body of the garment. (Twice S to T, fig. 10.)



FIGURE 10.—Union suits—women's ribbed (1×1) cotton, low neck, no sleeves, knee length, built-up shoulder, tight knee.

# UNION SUITS—WOMEN'S RIBBED (1 $\times$ 1) COTTON

# MEDIUM WEIGHT, DUTCH NECK, ELBOW SLEEVE, KNEE LENGTH, BUTTON FRONT

68. Width of garment.—Measured across buttoned garment 1 inch

below bottom of armholes. (From H to J, fig. 11.)
69. Trunk.—Twice the distance measured from point where shoulder joins neck opening to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch. (Twice C to D, fig. 11.)

70. Total length.—Measured from point where shoulder joins neck

opening to bottom edge of leg. (From A to B, fig. 11.)

71. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve or sleeve cuff, if cuff is used. (From F to G, fig. 11.)

72. Armhole length.—Measured from point where sleeve is attached

to shoulder to lowest point under arm. (From F to N, fig. 11.)

73. Sleeve cuff length.—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff if cuff is used. (From L to G, fig. 11.)

74. Neck opening.—Measured from center of neck opening button around inner edge of neck opening to outside end of buttonhole.

75. Waist.—Twice the distance measured across the garment at the narrowest part of the body of the garment. (Twice S to T, fig. 11.)

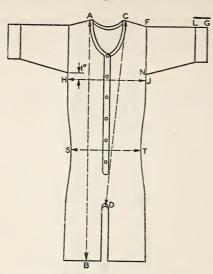


FIGURE 11.—Union suits—women's ribbed (1×1) cotton, medium weight, dutch neck, elbow sleeve, knee length, button front.

# VESTS—CHILDREN'S AND WOMEN'S RIBBED (1 $\times$ 1) AND SWISS RIBBED STRAIGHT

76. Width of garment.—Measured across garment 6 inches below bottom of armholes. (From H to J, fig. 12.)

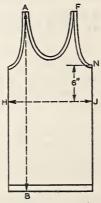


FIGURE 12.—Vests—children's and women's ribbed (1×1) and swiss ribbed straight.

77. Total length.—Measured from top edge of shoulder strap to bottom edge of vest. (From A to B, fig. 12.)
78. Armhole length.—Measured from top point of armhole at

78. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm (one-half length of armhole band). (From F to N, fig. 12.)

79. Neck opening.—Measured from point where shoulder joins neck opening around inner edge of neck opening back to starting point or twice the distance across aperture of neck opening secured by grasping opposite sides of neck opening and bringing the two opposite edges parallel.

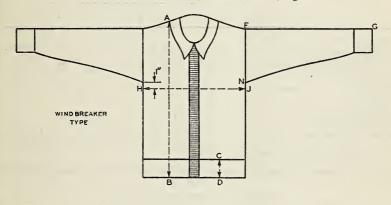
# PART III. BOYS' GARMENTS-STANDARD MEAS-UREMENTS AND METHODS IN DETAIL

### COATS, SPORT-FLAT COTTON FLEECE LINED

#### WINDBREAKER AND BUTTON FRONT TYPE

#### METHOD OF MEASURING

80. Width of garment.-Measured across buttoned or closed garment 1 inch below bottom of armholes. (From H to J, fig. 13.)



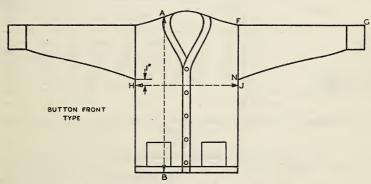


FIGURE 13.—Coats, sport—boys' flat cotton fleece-lined. Windbreaker and button front types.

81. Total length.—Measured from point where shoulder joins collar on windbreaker type or stolling on button front type, to bottom edge of garment. (From A to B, fig. 13.)

82. Sleeve length.—Measured from lowest point under arm to lower

outside edge of sleeve. (From F to G, fig. 13.)

83. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under arm. (From F to N, fig. 13.) 84. Collar length (windbreaker type only).—Measured from end

of neck seam around neck seam to opposite end of neck seam.

85. Border rib length (windbreaker type only).—Measured from middle seam attaching rib to edge of garment to bottom edge of border rib. (From C to D, fig. 13.)

Table 1.—Coats, Sport—Standard measurements for boys' flat cotton fleece lined windbreaker and button front type

(U. I. B-16) Size (inches) 28 24 26 30 32 34 Tolerances Location (plus or minus) Age (approximate) 6 8 10 12 14 16 Width of garment: Both types\_ 12 13 14 15 16 17 6 percent. Total length: (a) Windbreaker type....(b) Button front type.... 17 18 19 20  $\frac{21}{22}$ 1 inch. 23 20 Do. Sleeve length: Both types.... Armhole length: 15 16 17 18 19 20 Do. 7 8 Do. Both types. 71/2  $7\frac{1}{2}$ Collar length: Windbreaker type only \_\_ 13 13 14 14 15 15 Do. Border rib length:  $4\frac{1}{2}$  $4\frac{1}{2}$  $4\frac{1}{2}$ Maximum. Windbreaker type only.  $4\frac{1}{2}$  $4\frac{1}{2}$ 41/2

Table 2.—Drawers—Standard measurements for boys' flat knit cotton, ankle length (U. I. B-10)

Method of measuring, paragraphs 12-20

Location		Tolerances							
Docation	2	4	6	8	10	12	14	16	(plus or minus)
Total length Waist Front rise Back rise Width of thigh Length front opening Drawer cuff length (if cuff is used)	22 24 8½ 9½ 5½ 5½ 8	25 25 9 <sup>1</sup> / <sub>4</sub> 10 <sup>1</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>2</sub> 8 5	28 26 10 11 6 8 <sup>1</sup> / <sub>2</sub> 5	31 27 10 <sup>3</sup> / <sub>4</sub> 11 <sup>3</sup> / <sub>4</sub> 6 <sup>1</sup> / <sub>2</sub> 8 <sup>1</sup> / <sub>2</sub> 5	35 28 11½ 12½ 7 9½ 5	38 29 12½ 13¼ 7½ 9½ 5	39 30 13 14 8 10 5	40 31 13 <sup>3</sup> / <sub>4</sub> 14 <sup>3</sup> / <sub>4</sub> 8 10 5	1 inch. Do. 3/ inch. Do. 1/2 inch. Do. Maximum.

Table 3.—Drawers—Standard measurements for boys' flat knit wool and wool-cotton, ankle length

(U. I. B-11) Method of measuring, paragraphs 12-20

and the state of t										
Location			Tolerances (plus or							
	2	4	6	8	10	12	14	16	minus)	
Total length Waist	23 24 9 10 5½ 8	26 25 9 <sup>3</sup> / <sub>4</sub> 10 <sup>3</sup> / <sub>4</sub> 5 <sup>1</sup> / <sub>2</sub> 8 5	29 26 10½ 11½ 6 8½ 5	$32$ $27$ $11\frac{1}{4}$ $12\frac{1}{4}$ $6\frac{1}{2}$ $8\frac{1}{2}$ $5$	36 28 12 13 7 9½ 5	39 29 1234 1334 7½ 9½ 5	40 30 13½ 14½ 8 10 5	41 31 141/4 151/4 8 10 5	1 inch. Do. 3/4 inch. Do. 1/2 inch. Do. Maximum.	

<sup>1</sup> Given as a guide only, not as a standard.

# $\begin{array}{c} \textbf{T}_{\textbf{ABLE 4.--}Drawers---Standard\ measurements\ for\ boys'\ ribbed\ (1\times1)} \\ cotton,\ ankle\ length \end{array}$

(U. I. B-9)

#### Method of measuring, paragraphs 12-20

Location				Tolerances (plus or					
Docation	2	4	6	8	10	12	14	16	minus)
Total length	23	26	29	32	36	39	40	41	1 inch.
Waist	24	25	26	27	28	29	30	31	Do.
Front rise	11	$11\frac{1}{2}$	12	13	$13\frac{1}{2}$	$14\frac{1}{2}$	15	15	¾ inch.
Back rise	12	$12\frac{1}{2}$	13	14	$14\frac{1}{2}$ $6\frac{1}{2}$ $9\frac{1}{2}$	$15\frac{1}{2}$	16	16	Do.
Width of thigh	$4\frac{1}{2}$	$4\frac{1}{2}$	$\frac{51_{2}}{81_{2}}$	$\frac{51/2}{81/2}$	$6\frac{1}{2}$	$\frac{61/2}{91/2}$	7	7	½ inch.
Length front opening	8	8	$8\frac{1}{2}$	81/2	$9\frac{1}{2}$		10	10	Do.
Drawer cuff length (if cuff is used)	5	5	5	5	5	5	5	5	Maximum.

## Table 5.—Shirts—Standard measurements for boys' flat knit cotton

(U. I. B-10)

#### Method of measuring, paragraphs 21-27

Location	20	22	24	26	28	30	32	34	Tolerances
Location			(plus or minus)						
	2	4	6	8	10	12	14	16	
Width of garment (all gages) Total length Sleeve length Armhole length Sleeve cuff length (if cuff is used) Neck opening Quarter sleeve length	10 14 11 5 5 13 5	$   \begin{array}{c}     11 \\     16 \\     12 \\     5 \\     5 \\     13 \\     5   \end{array} $	12 18 13 6 5 14 5	13 20 14 6 5 14 5	$\begin{array}{c c} 14 \\ 22\frac{1}{2} \\ 15 \\ 6\frac{1}{2} \\ 5 \\ 14 \\ 6 \end{array}$	$   \begin{array}{c}     15 \\     24\frac{1}{2} \\     16\frac{1}{2} \\     7 \\     5 \\     15 \\     6   \end{array} $	16 27 18 7 5 15 6	17 29 19½ 7½ 5 15 6	6 percent. 1 inch. Do. Do. Maximum. 1 inch. 1½ inches.

### Table 6.—Shirts—Standard measurements for boys' flat knit wool and wool-cotton

(U. I. B-11)

#### Method of measuring, paragraphs 21-27

Location	20	22	24	26	28	30	32	34	Tolerances
Location			(plus or minus)						
	2	4	6	8	10	12	14	16	
Width of garment (all gages)	$   \begin{array}{c}     10 \\     15 \\     12 \\     5 \\     5 \\     13   \end{array} $	11 17 13 6 5 13	$ \begin{array}{c c} 12 \\ 19 \\ 14 \\ 61/2 \\ 5 \\ 14 \end{array} $	$13$ $21$ $15$ $6\frac{1}{2}$ $5$ $14$	$   \begin{array}{c}     14 \\     23\frac{1}{2} \\     16 \\     7 \\     5 \\     14   \end{array} $	$   \begin{array}{c}     15 \\     25\frac{1}{2} \\     17\frac{1}{2} \\     7\frac{1}{2} \\     5 \\     15   \end{array} $	16 28 19 8 5 15	17 30 20½ 8 5 15	6 percent. 1 inch. Do. Do. Maximum. 1 inch.

Table 7.—Shirts—Standard measurements for boys' ribbed  $(1 \times 1)$  cotton

(U. I. B-9)

#### Method of measuring, paragraphs 21-27

Size (inches)										
Location	20	22	24	26	28	30	32	34	Tolerances	
Location			(plus or minus)							
-	2	4	6	8	10	12	14	16		
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Total length Sleeve length: For military nonelastic shoulder For set-in shoulder 1 Armhole length Sleeve cuff length (if cuff is used) Collarette length Quarter sleeve length	93/4 91/4 15 12 11 	$   \begin{array}{c}     934 \\     914 \\     17 \\     13 \\     12 \\     \hline     51/2 \\     4 \\     14 \\     5   \end{array} $	10½ 10 19 14 13 	10½ 10 21 15 14 	$   \begin{array}{c}     11\frac{1}{4} \\     10\frac{3}{4} \\     23\frac{1}{2}   \end{array} $ $   \begin{array}{c}     16 \\     15 \\     \hline     6\frac{1}{2} \\     4 \\     15 \\     6   \end{array} $	$   \begin{array}{c}     12 \\     11\frac{1}{2} \\     25\frac{1}{2}   \end{array} $ $   \begin{array}{c}     17\frac{1}{2} \\     16\frac{1}{2}   \end{array} $ $   \begin{array}{c}     7 \\     4 \\     16 \\     6   \end{array} $	12½ 12 28 19 18 7 4 16 6	$   \begin{array}{c}     13\frac{1}{4} \\     12\frac{3}{4} \\     30   \end{array} $ $   \begin{array}{c}     20\frac{1}{2} \\     19\frac{1}{2} \\     \hline     7\frac{1}{2} \\     4 \\     17 \\     6   \end{array} $	Do. 1 inch. Do. Do.	

<sup>&</sup>lt;sup>1</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder, with tolerance of 1 inch plus or minus.

Table 8.—Shirts, Athletic—Standard measurements for boys' knit pullover shirt, ribbed  $(1 \times 1)$  and flat knit

(U. I. B-12)

#### Method of measuring, paragraphs 28-31

	20	22	24	26	28	30	32	34		
Location			Ag	e (appi	roxima	te)			Tolerances (plus or minus)	
	2	4	6	8	10	12	14 —	16		
For ribbed shirts only	2	4	Small <sup>1</sup>		Medium 1		Lar	ge 1		
Width of garment: Rib knit (1×1) Flat knit Total length: Rib knit (1×1) Flat knit Armhole length Collarette length	$   \begin{array}{c}     8^{3} \cancel{4} \\     10 \\     \hline     16 \\     15 \\     7^{1} \cancel{2} \\     20   \end{array} $	83/4 10 18 17 8 21	9 <sup>1</sup> / <sub>4</sub> 11 20 19 8 <sup>1</sup> / <sub>2</sub> 22	9 <sup>3</sup> / <sub>4</sub> 11 22 21 9 23	$   \begin{array}{c}     10\frac{1}{4} \\     12   \end{array} $ $   \begin{array}{c}     24\frac{1}{2} \\     23\frac{1}{2} \\     9\frac{1}{2} \\     24   \end{array} $	13 26½	$11\frac{1}{4}$ $14$ $29$ $28$ $10\frac{1}{2}$ $26$	$     \begin{array}{r}       1134 \\       15     \end{array}   $ $     \begin{array}{r}       31 \\       30 \\       11 \\       26     \end{array}   $	6 percent. Do. 1 inch. Do. Do. 2 inches.	

<sup>1</sup> Wherever the "small," "medium," and "large" designations are used to cover 2 or more numbered sizes, the measurements used should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of boys' ribbed athletic shirts where the "medium" designation is used to cover sizes 28 and 30, the total length used as a standard for the "medium" designation should be the average of 24½ and 26½ inches or 25½ inches. The same tolerances should apply as used for the numbered sizes. In this case, with a tolerance of plus or minus 1 inch allowed, the "medium" shirt may measure in total length from 24½ to 26½ inches.

Table 9.—Shirts, Athletic—Standard measurements for boys' panel ribbed (needle out) knit pullover

[From fabric made on latch needle machines with other than swiss cams]

(U. I. B-13)

Method of measuring, paragraphs 28-31

	20	22	24	26	28	30	32	34	
Location		Tolerances (plus or minus)							
	2	4	6 -	- 8	10 -	- 12	14 -	- 16	
			Sm	all <sup>1</sup>	Med	ium ¹	Lar	ge 1	
Width of garment: Panel rib Total length Armhole length Collarette length	8½ 16 7½ 20	8½ 18 8 21	$\begin{array}{c} 9 \\ 20 \\ 8\frac{1}{2} \\ 22 \end{array}$	9 22 9 23	93/4 241/2 91/2 24	$9\frac{3}{4}$ $26\frac{1}{2}$ $10$ $25$	$10\frac{1}{2}$ $29$ $10\frac{1}{2}$ $26$	31	6 percent. 1 inch. Do. 2 inches.

Wherever the "small", "medium," and "large" designations are used to cover 2 or more numbered sizes, the measurements used should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of boys' panel-ribbed athletic shirts where the "medium" designation is used to cover sizes 28 and 30, the total length used as a standard for the "medium" designation should be the average of 24½ and 26½ inches or 25½ inches. The same tolerances should apply as used for the numbered sizes. In this case with a tolerance of plus or minus one inch allowed, the "medium" shirt may measure in total length from 24½ to 26½ inches.

Table 10.—Shirts, Athletic—Standard measurements for boys' swiss ribbed pullover

(U, I, B-14)

Method of measuring, paragraphs 28-31

			,								
	20	22	24	26	28	30	32	34			
Location		Tolerances (plus or minus)									
	2 4 6-8 10-12 14-16										
			Sm	all 1	Med	ium 1	Lar	ge i			
Width of garment: 12 cut	$   \begin{array}{c}     7 \\     6\frac{1}{2} \\     18 \\     7\frac{1}{2} \\     20   \end{array} $	7 6½ 20 8 21	$7\frac{1}{2}$ $7$ $22$ $8\frac{1}{2}$ $22$	7	8 7½ 26 9½ 24	$\begin{array}{c} 8 \\ 71/2 \\ 28 \\ 10 \\ 25 \end{array}$	$\begin{array}{c} 8\frac{1}{2} \\ 8 \\ 30 \\ 10\frac{1}{2} \\ 26 \end{array}$	8 31	10 percent. Do. 1 inch. Do. 2 inches.		

<sup>&</sup>lt;sup>1</sup> Wherever the "small," "medium," and "large" designations are used to cover 2 or more numbered sizes, he measurements used should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of boys' swiss ribbed athletic shirts where the "medium" designation is used to cover sizes 28 and 30, the total length used as a standard for the "medium" designation should be the average of 26 and 28 inches, or 27 inches. The same tolerances should apply as used for the numbered sizes. In this case, with a tolerance of plus or minus 1 inch allotted, the "medium" shirt may measure in total length from 26 to 28 inches.

### SHIRTS, POLO-BOYS' KNITTED

#### METHOD OF MEASURING

86. Width of garment.—Measured across buttoned garment 1 inch below bottom of armholes. (From H to J, fig. 14.)

87. Total length.—Measured from point where shoulder joins collar

to bottom edge of shirt. (From A to B, fig. 14.)

88. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G, fig. 14.) 89. Armhole length.—Measured from point where sleeve is attached

to shoulder to lowest point under arm. (From F to N, fig. 14.)

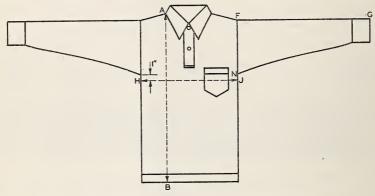


FIGURE 14.—Shirts, polo—boys' knitted.

90. Collar length.—Measured from center of collar button around neck band to outside end of buttonhole.

Table 11.—Shirts, Polo—Standard measurements for boys' flat knit all-wool
(U. I. B-17)

Location	20	22	24	26	28	30	32	34	Tolerances
Location			(plus or minus)						
	2	4	6	8	10	12	14	16	
Width of garment Total length	10 15	10 16½	11 18	$\frac{12}{19\frac{1}{2}}$	13 21	$\frac{14}{22\frac{1}{2}}$	$\begin{array}{c} 15 \\ 24 \end{array}$	16 25	6 percent. 1 inch.
Sleeve length: Long Short Armhole length	13 5½ 6	$^{14}_{\substack{5\frac{1}{2} \\ 6}}$	$ \begin{array}{c} 15 \\ 6 \\ 6\frac{1}{2} \\ 11\frac{1}{2} \end{array} $	16 •6 6½	$\frac{17}{6\frac{1}{2}}$	7	$   \begin{array}{c}     19 \\     7 \\     7\frac{1}{2} \\     13\frac{1}{2}   \end{array} $	20 7 8	Do. Do. Do.
Collar length	10½	11	$11\frac{1}{2}$	12	$12\frac{1}{2}$	13	$13\frac{1}{2}$	14	Do.

Table 12.—Shirts, Polo—Standard measurements for boys' flat knit cotton and worsted-cotton

(U. I. B-17)

Location	20	22	24	26	28	30	32	- 34	Tolerances
Docation				(plus or minus)					
	2	4	6	8	10	12	14	16	
Width of garment Total length Sleeve length:	10 14	10 15½		12 18½		$\frac{14}{21\frac{1}{2}}$	15 23	16 24	6 percent. 1 inch.
LongShortArmhole lengthCollar length	13 5½ 6 10½	14 5½ 6 11	$ \begin{array}{c} 15 \\ 6 \\ 6^{1/2} \\ 11^{1/2} \end{array} $	$ \begin{array}{c} 16 \\ 6 \\ 6^{1/2} \\ 12 \end{array} $	$ \begin{array}{c} 17 \\ 6\frac{1}{2} \\ 7 \\ 12\frac{1}{2} \end{array} $	18 6½ 7 13	$   \begin{array}{c}     19 \\     7 \\     7\frac{1}{2} \\     13\frac{1}{2}   \end{array} $	20 7 8 14	Do. Do. Do. Do.

Table 13.—Shirts, Polo—Standard measurements for boys' flat knit wool-cotton
(U. I. B-17)

20	22	24	26	28	30	32	34	Tolerances (plus or
		minus)						
2	4	6	8	10	12	14	16	
10 15	10 16½	11 18	$\frac{12}{19\frac{1}{2}}$	13 21	$\frac{14}{22\frac{1}{2}}$	15 24	16 25	6 percent. 1 inch.
$ \begin{array}{c} 13 \\ 5\frac{1}{2} \\ 6 \\ 10\frac{1}{2} \end{array} $	$   \begin{array}{c}     14 \\     5\frac{1}{2} \\     6 \\     11   \end{array} $	$ \begin{array}{c} 15 \\ 6 \\ 6^{1/2} \\ 11^{1/2} \end{array} $	$ \begin{array}{c} 16 \\ 6 \\ 6^{1/2} \\ 12 \end{array} $	$ \begin{array}{c} 17 \\ 6\frac{1}{2} \\ 7 \\ 12\frac{1}{2} \end{array} $	$   \begin{array}{c}     18 \\     6\frac{1}{2} \\     7 \\     13   \end{array} $	$   \begin{array}{c}     19 \\     7 \\     7 \frac{1}{2} \\     13 \frac{1}{2}   \end{array} $	20 7 8 14	Do. Do. Do. Do.
	2 10 15 13 5 <sup>1</sup> / <sub>2</sub>	2 4 10 10 15 16½ 13 14 5½ 6 6	20 22 24  Ag  2 4 6  10 10 11 15 16½ 18 13 14 15 55½ 55½ 6	20 22 24 26  Age (approximate 2 4 6 8  10 10 11 12 15 16½ 18 19½ 13 14 15 16 514 554 6 6	Age (approxima)  2 4 6 8 10  10 10 11 12 13 15 16½ 18 19½ 21 13 14 15 16 17 514 514 6 6 614	20 22 24 26 28 30  Age (approximate)  2 4 6 8 10 12  10 10 11 12 13 14 15 16½ 18 19½ 21 22½ 13 14 15 16 17 18 514 514 6 6 6 614 614	20 22 24 26 28 30 32  Age (approximate)  2 4 6 8 10 12 14  10 10 11 12 13 14 15 16 17 18 19 514 514 6 6 6 64 64 7	20 22 24 26 28 30 32 34  Age (approximate)  2 4 6 8 10 12 14 16  10 10 11 12 13 14 15 16 15 16 17 18 19 20 514 514 6 6 6 6 6 6 6 6 6 7 7 7

Table 14.—Shirts, Polo—Standard measurements for boys' ribbed  $(1 \times 1)$  cotton (U. I. B-17)

Location	20	22	24	26	28	30	32	34	Tolerances (plus or
Docation			Age	e (appr	oxima	te)			minus)
	2	4	6	8	10	12	14	16	
Width of garment: 12, 14 cut Total length Sleeve length: Long Short Armhole length Collar length	$9\frac{1}{2}$ $14$ $13$ $5\frac{1}{2}$ $6$ $10\frac{1}{2}$	9½ 15½ 15½ 14 5½ 6 11	$   \begin{array}{c}     10\frac{1}{2} \\     17   \end{array} $ $   \begin{array}{c}     15 \\     6 \\     6\frac{1}{2} \\     11\frac{1}{2}   \end{array} $	$     \begin{array}{c}       10\frac{1}{2} \\       18\frac{1}{2}     \end{array} $ $     \begin{array}{c}       16 \\       6 \\       6\frac{1}{2}     \end{array} $ $     \begin{array}{c}       12     \end{array} $	$   \begin{array}{c}     11\frac{1}{2} \\     20   \end{array} $ $   \begin{array}{c}     17 \\     6\frac{1}{2} \\     7 \\     12\frac{1}{2}   \end{array} $	$ \begin{array}{c} 11\frac{1}{2} \\ 21\frac{1}{2} \end{array} $ $ \begin{array}{c} 18 \\ 6\frac{1}{2} \\ 7 \\ 13 \end{array} $	12½ 23 19 7 7½ 13½	12½ 24 20 7 8 14	6 percent. 1 inch.  Do. Do. Do. Do. Do.

## SHIRTS, SWEAT—BOYS' FLAT FLEECE-LINED

#### METHOD OF MEASURING

91. Width of garment.—Measured across garment 1 inch below bot-

tom of armholes. (From H to J, fig. 15.)

92. Total length.—Measured from point where shoulder joins collarette or neck opening to bottom edge of shirt. (From A to B, fig: 15.)

93. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G, fig. 15.)

94. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under arm. (From F to N, fig. 15.)

95. Sleeve cuff length.-Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff. (From L to G, fig. 15.)

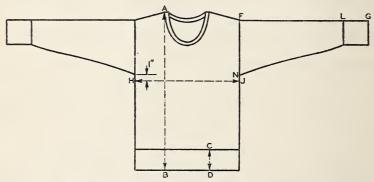


Figure 15.—Shirts, sweat—boys' flat fleece-lined.

96. Neck opening.—Measured from point where shoulder joins collarette or neck opening around inner edge of collarette or neck opening back to starting point or twice the distance across aperture of collarette or neck opening secured by grasping opposite sides of collarette or neck opening and bringing the two opposite edges parallel. (From X to Y, fig. 7, A.)
97. Border rib length.—Measured from middle of seam attaching rib

to edge of shirt to bottom edge of border rib. (From C to D, fig. 15.)

Table 15.—Shirts, Sweat—Standard measurements for boys' flat fleece-lined (U. I. B-15)

Location	20	22	24	26	28	30	32	34	Tolerances (plus or
Location			Age	(appr	oximat	e)			minus)
	2	4	6	8	10	12	14	16	
Width of garment Total length Sleeve length Armhole length Sleeve cuff length Neck opening Border rib length	$   \begin{array}{c}     10 \\     15 \\     13 \\     6 \\     4 \\     15 \\     4 \\     2   \end{array} $	$ \begin{array}{c} 11 \\ 16\frac{1}{2} \\ 14 \\ 6 \\ 4 \\ 15\frac{1}{2} \\ 4\frac{1}{2} \end{array} $	$   \begin{array}{c}     12 \\     18 \\     15\frac{1}{2} \\     6\frac{1}{2} \\     4 \\     15\frac{1}{2} \\     4\frac{1}{2}   \end{array} $	13 19½ 17 7 4 16 4½	14 21 18 7 4 16 4 <sup>1</sup> / <sub>2</sub>	$ \begin{array}{c} 15 \\ 221/2 \\ 19 \\ 71/2 \\ 4 \\ 16 \\ 41/2 \end{array} $	$ \begin{array}{c} 16 \\ 24 \\ 20 \\ 8 \\ 4 \\ 16 \\ 4 \\ 1 \\ 2 \end{array} $	17 25 20 8 4 16½ 4½ 4½	6 percent. 1 inch. Do. Do. Maximum. 1 inch. Maximum.

### Table 16.—Union Suits—Standard measurements for boys' flat fleece

(U. I. B-4) Method of measuring, paragraphs 37-45

Tooding	20	22	24	26	28	30	32	34	Tolerances (plus or
Location		minus)							
	2	4	6	8	10	12	14	16	
Width of garment (all gages) Trunk Total length( ankle) Width of leg (all gages) Sleeve length Armhole length Leg cuff length Sleeve cuff length Collarette length	$     \begin{array}{c}       10 \\       37 \\       29 \\       5 \\       11 \\       5^{1/2} \\       5 \\       4 \\       14     \end{array} $	$     \begin{array}{c}       11 \\       40 \\       32 \\       51/2 \\       12 \\       6 \\       5 \\       4 \\       14     \end{array} $	$     \begin{array}{c}       12 \\       43 \\       36 \\       6 \\       13 \\       6^{1/2} \\       5 \\       4 \\       15 \\     \end{array} $	13 46 40 6½ 14 6½ 5 4	15	15 52 48 7½ 16 7½ 5 4 16	16 55 51 8 17 8 5 4	17 58 54 8½ 18 8 5 4 17	6 percent. 1½ inches. Do. 1 inch. Do. ¾ inch. Maximum. Do. 1 inch.

## Table 17.—Union Suits—Standard measurements for boys' flat knit cotton

(U. I. B-2)

#### Method of measuring, paragraphs 37-45

			Size (iı	nches)				-	
20	22	24	26	28	30	32	34	Tolerances	
	Age (approximate)							(plus or minus)	
2	4	6	8	10	12	14	16		
10 38 30 5	11 41 33 5½	12 44 37 6	13 47 41 6½	14 50 45 7	15 53 49 7½	16 56 52 8	17 59 55 8½	6 percent. 1½ inches. Do. 1 inch.	
$\frac{12}{11}$	13 12	14 13	15 14	16 15	17½ 16½	19 18	20½ 19½	Do. Do.	
5 5 4 14 5	5½ 5 4 14 5	6 5 4 15 5 27	6 5 4 15 5	6½ 5 4 15 6	5 4 16 6	7 5 4 16 6 35	5 4 17 6	34 inch. Maximum. Do. 1 inch. 1½ inches. Do.	
	2 10 38 30 5 12 11	2 4 10 11 38 41 30 33 5 5½ 12 13 11 12 5 5½ 4 4 14 14 5 5 5	Ag  2 4 6  10 11 12 38 41 44 30 33 37 5 5½ 6 12 13 14 11 12 13  5 5½ 6 5 5 5 4 4 4 14 14 15 5 5 5 5 5	20 22 24 26 Age (approximate 2 4 6 8  10 11 12 13 38 41 44 47 30 33 37 41 5 55½ 6 6½  12 13 14 15 11 12 13 14  5 55½ 6 6 6½  12 13 14 15 11 12 13 14 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Age (approxima  2	20   22   24   26   28   30    Age (approximate)  2   4   6   8   10   12    10   11   12   13   14   15   38   41   44   47   50   53   30   33   37   41   45   49   5   5\frac{1}{2}\frac{2}{6}   6\frac{1}{2}\frac{2}{6}   7   7\frac{1}{2}\frac{1}{2}   13   14   15   16   17\frac{1}{2}\frac{1}{2}   11   12   13   14   15   16\frac{1}{2}\frac{1}{2}    5   5\frac{1}{2}\frac{6}{6}   6   6   6\frac{1}{2}\frac{7}{2}   7    5   5   5   5   5   5   5   5   5   4   4   4   4   4   4   14   14   15   15   15   16   5   5   5   5   5   6   6   6   6   6   6   6   7   7   7   7   7   7   7   7   7   7	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

<sup>&</sup>lt;sup>1</sup> Total length of knee length and shorter suits may vary according to style.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder with tolerance of 1 inch plus or minus.

Table 18.—Union Suits—Standard measurements for boys' ribbed (1×1) cotton (U. I. B-1)

Method of measuring, paragraphs 37-45

				Size (ir	iches)							
Location	20	22	24	26	28	30	32	34	Tolerances (plus or			
Location			Age	appr	oximat	e)			minus)			
	2	4	6	8	10	12	14	16				
Width of garment: 7, 8, 9, 10 cut. 11, 12, 14 cut. Trunk Total length (ankle length suit) 1 Width of leg: 7, 8, 9, 10 cut. 11, 12, 14 cut.	934 914 38 30 478 458	9 <sup>3</sup> / <sub>4</sub> 9 <sup>1</sup> / <sub>4</sub> 41 33 4 <sup>7</sup> / <sub>8</sub> 4 <sup>5</sup> / <sub>8</sub>	10½ 10 44 37 5¼ 5	10½ 10 47 41 5¼ 5	11 <sup>1</sup> / <sub>4</sub> 10 <sup>3</sup> / <sub>4</sub> 50 45 5 <sup>5</sup> / <sub>8</sub> 5 <sup>3</sup> / <sub>8</sub>	12 11½ 53 49 6 5¾	12 <sup>3</sup> / <sub>4</sub> 12 <sup>1</sup> / <sub>4</sub> 56 52 6 <sup>3</sup> / <sub>8</sub> 6 <sup>1</sup> / <sub>8</sub>	13½ 13 59 55 6¾ 6½	6 percent. Do. 1½ inches. Do. 1 inch. Do.			
Sleeve length: For military nonelastic shoulder For lap seam elastic shoulder For set-in shoulder 2	12 11	13 12	14 13	15 14	16 15	17½ 16½	19 18	20½ 19½	Do. Do.			
Armhole length Leg cuff length (if cuff is used) Sleeve cuff length (if cuff is used) Collarette length Quarter sleeve lengths Length knee-length suit	5 5 4 14 5 23	5½ 5 4 14 5 25	6 5 4 15 5 27	6 5 4 15 5 29	6½ 5 4 15 6 31	7 5 4 16 6 33	7 5 4 16 6 35	7½ 5 4 17 6 37	34 inch. Maximum. Do. 1 inch. 1½ inches. Do.			

Table 19.—Union Suits—Standard measurements for boys' ribbed (1×1) worsted, worsted-merino, wool, and wool-cotton

[Made from fabric that has been washed in the roll and then cut and seamed]

(U, I. B-3)

Method of measuring, paragraphs 37-45

				Size (ii	nches)				
Location	20	22	24	26	28	30	32	34	Tolerances
Location			(plus or minus)						
	2	4	6	8	10	12	14	16	
Width of garment: 7, 8, 9, 10 cut. 11, 12, and 14 cut. Trunk Total length (ankle length suit) 1. Width of leg: 7, 8, 9, 10 cut. 11, 12, and 14 cut. Sleeve length: For military nonelastic shoulder. For lap seam elastic shoulder. For set-in shoulder 2. Armhole length. Leg cuff length (if cuff is used). Sleeve cuff length (if cuff is used). Collarette length. Quarter sleeve lengths. Length knee-length suit.	934 914 38 30 478 458 12 11 	41 33 478	10\frac{1}{2} 10 44 37 5\frac{1}{4} 5 14 13 	10½ 10 47 41 5¼ 5 15 14 15 4 15 5 29	111/4 103/4 50 45 55/8 53/8 16 15 	12 111½ 53 49 6 534 17½ 16½ 7 5 4 16 6 33	1234 1214 56 52 636 616 19 18  7 5 4 16 6 35	13½ 13 59 55 6¾ 6½ 20½ 19½ 5 4 17 6 37	Do. 1½ inches. Do. 1 inch. Do. Do. Do.

<sup>&</sup>lt;sup>1</sup> Total length of knee length and shorter suits may vary according to style.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder, with tolerance of 1 inch plus or minus.

<sup>&</sup>lt;sup>1</sup> Total length of knee length and shorter suits may vary according to style.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder, with tolerance of 1 inch plus or minus.

Table 20.—Union Suits, Athletic—Standard measurements for boys' flat knit cotton—no sleeves, button shoulder, short leg

(U. I. B-6)

Method of measuring, paragraphs 46-51

				Size (i	nches)					
Location	20	22	24	26	28	30	32	34	Tolerances (plus or	
-		minus)								
	2 ·	4	6	8	10	12	14	16		
Width of garment	10 38 21 7½ 20	10 41 23 8 21	11 44 25 8½ 22	11 47 27 9 23	12 50 29 9½ 24	13 53 31 10 25	14 56 33 10½ 26	15 59 35 11 26	6 percent. 1½ inches. Do. 1 inch. 2 inches.	

<sup>&</sup>lt;sup>1</sup> Total length of athletic suits may vary according to style.

# Table 21.—Union Suits, Athletic—Standard measurements for boys' panel ribbed— (needle out)—no sleeve, button shoulder, short leg

[Made from fabric on machines with other than swiss cams]

(U. I. B-7)

Method of measuring, paragraphs 46-51

				Size (i	nches)					
Location	20	22	24	26	28	30	32	34	Tolerances (plus or	
		minus)								
	2	4	6	8	10	12	14	16		
Width of garment	83/4 38 21 71/2 20	83/4 41 23 8 21	$\begin{array}{c} 91/2 \\ 44 \\ 25 \\ 81/2 \\ 22 \end{array}$	$9\frac{1}{2}$ $47$ $27$ $9$ $23$	$10$ $50$ $29$ $9^{1/2}$ $24$	10½ 53 31 10 25	11 56 33 10½ 26	113/4 59 35 11 26	6 percent. 1½ inches. Do. 1 inch. 2 inches.	

<sup>&</sup>lt;sup>1</sup> Total length of athletic suits may vary according to style.

Table 22.—Union Suits, Athletic—Standard measurements for boys' ribbed  $(1 \times 1)$  knit cotton—no sleeves, button shoulder, short leg

(U. I. B-5)

Method of measuring, paragraphs 46-51

·									
Location	20	22	24	26	28	30	32	34	Tolerances
		(plus or minus)							
	2	4	6	8	10	12	14	16	
Width of garment Trunk Total length  Armhole length Collarette length	$9\frac{1}{4}$ $38$ $21$ $7\frac{1}{2}$ $20$	9½ 41 23 8 21	10 44 25 8½ 22	10 47 27 9 23	10½ 50 29 9½ 24	11 53 31 10 25	11½ 56 33 10½ 26	59 35	6 percent. 1½ inches. Do. 1 inch. 2 inches.

<sup>1</sup> Total length of athletic suits may vary according to style.

Table 23.—Union Suits, Athletic—Standard measurements for boys' swiss ribbed knit—no sleeve, button shoulder, short leg

[Measurements herein given do not apply to fabrics made on flat bed machines]

(U. I. B-8) Method of measuring, paragraphs 46-51

Location	20	22	24	26	28	30	32	34	Tolerances (plus or
Docation			Ag	e (app	roxima	te)			minus)
	2	4	- 6	8	10	12	14	16	
Width of garment:  11 and 12 cut 14 cut Trunk Total length 1 Armhole length. Collarette length.	$7\frac{1}{2}$ $7$ $40$ $21$ $7\frac{1}{2}$ $20$	$7\frac{1}{2}$ $7$ $43$ $23$ $8$ $21$	$   \begin{array}{c}     8 \\     7\frac{1}{2} \\     46 \\     25 \\     8\frac{1}{2} \\     22   \end{array} $	$\begin{array}{c} 8 \\ 7\frac{1}{2} \\ 49 \\ 27 \\ 9 \\ 23 \end{array}$	8½ 8 52 29 9½ 24	8½ 8 55 31 10 25	$\begin{array}{c} 9 \\ 8^{1}/2 \\ 58 \\ 33 \\ 10^{1}/2 \\ 26 \end{array}$	$   \begin{array}{c}     9 \\     81/2 \\     61 \\     35 \\     11 \\     26   \end{array} $	10 percent. Do. 1½ inches. Do. 1 inch. 2 inches.

<sup>&</sup>lt;sup>1</sup> Total lengths of athletic suits may vary according to style.

# PART IV. CHILDREN'S GARMENTS—STANDARD MEASUREMENTS AND METHODS IN DETAIL

## BLOOMERS—CHILDREN'S RIBBED $(1\times1)$

# ELASTIC WAIST BAND, ELASTIC AT KNEE METHOD OF MEASURING

98. Total length.—Measured from outside edge of waist band (unstretched) to bottom edge of leg. (From A to B, fig. 16.)

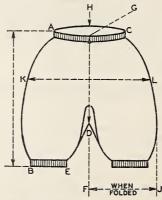


Figure 16.—Bloomers—children's and women's ribbed  $(1 \times 1)$  elastic waist band, elastic at knee.

99. Waist.—Twice the distance measured between outside edges of waist band when elastic in waist band is not stretched. (Twice A to C, fig. 16.)

100. Width across seat.—Measured across back of garment halfway between bottom of crotch and top edge of waist band. (From K

to L, fig. 16.)

101. Width of leg at bottom.—Measured across leg at bottom edge when elastic is not stretched. (From B to E, fig. 16.)

102. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G, fig. 16.)

103. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H,

fig. 16.)

104. Width across crotch.—Measured at widest point of fold after garment has been folded in half lengthwise. (From F to J, fig. 16.)

Table 24.—Bloomers—Standard measurements for children's ribbed  $(1 \times 1)$  elastic waist band, elastic at knee (U. I. C-12)

o cotion			Ag	e (app	roxima	te)
ocation	2	4	6	8	10	12

Location				Tolerances (plus or					
Location	2	4	6	8	10	12	14	16	minus)
Total length Waist Width across seat Width of leg bottom Front rise Back rise Width across crotch	$   \begin{array}{c}     12\frac{1}{2} \\     13 \\     12\frac{3}{4} \\     4 \\     9\frac{1}{2} \\     10\frac{1}{2} \\     7\frac{1}{2}   \end{array} $	13½ 14 13½ 4 10 11 8	14½ 15 14¼ 4½ 10½ 11½ 8	15½ 16 15 4½ 11 12 9	$ \begin{array}{c} 16\frac{1}{2} \\ 17 \\ 15\frac{3}{4} \\ 5 \\ 11\frac{1}{2} \\ 12\frac{1}{2} \\ 9 \end{array} $	17½ 18 16½ 5 12 13 10	18½ 19 17¼ 5½ 12½ 13½ 10	19½ 20 18 5½ 13 14 10½	1 inch. Do. Do. ½ inch. ¾ inch. Do. ½ inch.

#### TUCK PANTIES—CHILDREN'S STITCH KNEE LENGTH METHOD OF MEASURING

105. Total length.—Measured from top outside edge of waist band to bottom edge of leg. (From A to B, fig. 17.)

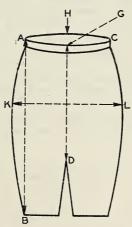


FIGURE 17.—Panties—children's and women's tuck stitch, knee length.

106. Waist.—Twice the distance between outside edges of waist band when elastic in waist band is not stretched. (Twice A to C, fig. 17.)

107. Width across seat.—Measured across back of garment half way between bottom of crotch and top edge of back waist band.

(From K to L, fig. 17.)

108. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G,

109. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H, fig. 17.)

Table 25.—Panties—Standard measurements for children's tuck stitch—knee length

(0.1.0-15)											
			Age	e (appr	oxima	te)					
Location	2 —	<u> </u>	6 —	6 — 8 Small		10 12 Medium		16	Tolerances (plus or minus)		
	Infa	nts'	Sm					rge			
Total length <sup>1</sup> Waist Width across seat (all cuts) Front rise Back rise	12 13½ 8 9 10	$   \begin{array}{c}     12 \\     13\frac{1}{2} \\     8 \\     9 \\     10   \end{array} $	14½ 15 9 10 11	$14\frac{1}{2}$ $15$ $9$ $10$ $11$	16 16½ 10 11 12	$   \begin{array}{c}     16 \\     16 \\     2 \\     10 \\     11 \\     12   \end{array} $	17½ 18 11 12 13	$17\frac{1}{2}$ $18$ $11$ $12$ $13$	1 inch. Do. 10 percent. 1 inch. Do.		

<sup>1</sup> Total lengths may vary according to style.

# PANTS—CHILDREN'S RIBBED (1 $\times$ 1) AND FLAT KNIT COTTON

#### ANKLE AND KNEE LENGTH

#### METHOD OF MEASURING

110. Total length.—Measured from outside edge of waist band to bottom of leg. (From A to B, fig. 2.)
111. Waist.—Twice the distance between the outside edges of

waist band when garment is buttoned. (Twice A to C, fig. 2.)

112. Width across seat.—Measured across back of garment at a point halfway between bottom of crotch and top edge of waist band. (From K to L, fig. 2.)

113. Width of thigh.—Measured across leg at bottom of crotch. (From D to N, fig. 2.)

114. Front rise.—Measured from bottom of crotch up front of buttoned garment to middle point of front edge of waist band. (From D to G, fig. 2.)

115. Back rise.—Measured from bottom of crotch up back of buttoned garment to middle point of back edge of waist band. (From D to H, fig. 2.)

Table 26.—Pants—Standard measurements for children's flat knit cotton—ankle and knee length

		(U. I.	C-11)						
Location			Age	e (appr	oxima	te)			Tolerances (plus or
Location	2	4	6	8	10	12	14	16	minus)
Total length: Ankle Knee Waist Width across seat Width of thigh (ankle) Front rise Back rise	19 12 23 14 5 9 <sup>1</sup> / <sub>2</sub>	$21\frac{1}{2}$ $13$ $24$ $15$ $5\frac{1}{2}$ $10$ $10\frac{1}{2}$	$24$ $15$ $25$ $16$ $5\frac{1}{2}$ $11$ $11\frac{1}{2}$	$ \begin{array}{c} 26\frac{1}{2} \\ 16\frac{1}{2} \\ 26 \\ 17 \\ 6 \\ 12 \\ 12\frac{1}{2} \end{array} $	29 18 27 18 6 12½ 13	$32$ $19$ $28$ $19$ $6\frac{1}{2}$ $13\frac{1}{2}$ $14$	$\begin{array}{c} 35 \\ 20 \\ 29 \\ 20 \\ 6\frac{1}{2} \\ 14\frac{1}{2} \\ 15 \end{array}$	38 21 29 21 7 15½ 16	1 inch. Do. Do. Do. 6 percent. 34 inch. Do.

Table 27.—Pants—Standard measurements for children's ribbed (1×1) cotton ankle and knee length

(U. I. C-10)

Location			Ag	e (appr	oxima	te)			Tolerances (plus or
Location	2	4	6	8	10	12	14	16	minus)
Total length: Ankle Knee Waist Width across seat Width of thigh (ankle) Front rise Back fise	20 13 23 13 4 9½ 10	$22\frac{1}{2}$ $14$ $24$ $14$ $4\frac{1}{2}$ $10$ $10\frac{1}{2}$	25 16 25 15 4 <sup>1</sup> / <sub>2</sub> 11 11 <sup>1</sup> / <sub>2</sub>	$\begin{array}{c} 27\frac{1}{2} \\ 17\frac{1}{2} \\ 26 \\ 16 \\ 5 \\ 12 \\ 12\frac{1}{2} \end{array}$	$30$ $19$ $27$ $17$ $5$ $12\frac{1}{2}$ $13$	$33$ $20$ $28$ $18$ $5\frac{1}{2}$ $13\frac{1}{2}$ $14$	$36$ $21$ $29$ $19$ $5\frac{1}{2}$ $14\frac{1}{2}$ $15$	$   \begin{array}{c}     39 \\     22 \\     29 \\     20 \\     6 \\     15 \\     16   \end{array} $	1 inch. Do. Do. Do. 6 percent. inch. Do.

# SLEEPING GARMENTS—CHILDREN'S RIBBED (1 $\times$ 1) AND FLAT KNIT

#### METHOD OF MEASURING

116. Width of garment.—Measured across garment 1 inch below

bottom of armholes.

117. Trunk.—Twice the distance measured from point where shoulder joins collarette to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch.

118. Total length.—Measured from point where shoulder joins

collarette to toe of foot, garment laid out flat.

119. Width of ankle.—Measured across leg where foot is joined to leg.

120. Width of leg.—Measured across leg at a point 4 inches below

bottom of crotch.

121. Length of foot.—Measured from toe to heel of bottom of foot after toe is folded back.

122. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve, or if cuff is used, to upper outside edge of cuff, cuff folded back over sleeve.

123. Armhole length.—Measured from point where sleeve is at-

tached to shoulder to lowest point under arm.

124. Collarette length.—Measured from center of collarette button around lower edge of collarette to outside end of button hole.

Table 28.—Sleeping Garments—Standard measurements for children's ribbed  $(1 \times 1)$  and flat knit

(U. I. C-14)

Variation	0	1	2	3	4	5	6	7	8	9	10	Tolerances
Location				A	ge (a	pprox	imate	)				(plus or minus)
			2		4		6		8		10	
Width of garment: Ribbed (1×1) Flat knit Trunk Total length Width of ankle: Ribbed (1×1) Flat knit Width of leg: Ribbed (1×1) Flat knit Length of foot Sleeve length Armhole length Collarette length	11 36 29 31/4 33/4 41/2 5 6 101/2 5 12	$\begin{array}{c} 91/2 \\ 11 \\ 371/2 \\ 31 \\ 33/4 \\ 41/2 \\ 5 \\ 6 \\ 101/2 \\ 5 \\ 12 \\ \end{array}$	$\begin{array}{c} 91/2 \\ 12 \\ 39 \\ 33 \\ 3 \\ 4 \\ 5 \\ 51/2 \\ 61/2 \\ 11/2 \\ 51/2 \\ 12 \\ \end{array}$	41/4 5 51/2 7	$ \begin{array}{c} 10\frac{1}{2} \\ 13 \\ 42 \\ 37 \end{array} $ $ \begin{array}{c} 4 \\ 4\frac{1}{2} \\ 6 \\ 7 \\ 12\frac{1}{2} \\ 6 \\ 13 \end{array} $	$ \begin{array}{c} 10\frac{1}{2} \\ 13 \\ 43\frac{1}{2} \\ 39 \end{array} $ $ \begin{array}{c} 4 \\ 4\frac{1}{2} \\ 6 \\ 7\frac{1}{2} \\ 6 \\ 13 \end{array} $	14 45 41 4 <sup>1</sup> / <sub>4</sub> 4 <sup>3</sup> / <sub>4</sub>	$\begin{array}{c} 111\frac{1}{2} \\ 14 \\ 46\frac{1}{2} \\ 43 \\ \end{array}$ $\begin{array}{c} 4\frac{1}{4} \\ 4\frac{3}{4} \\ 6 \\ 6\frac{1}{2} \\ 8 \\ 15\frac{1}{2} \\ 6\frac{1}{2} \\ 14 \\ \end{array}$	15 48 45 4½ 5 6½ 7 8	6½ 7 9	51/4	Do.

Table 29.—Union Suits—Standard measurements for children's flat knit cotton
(U. I. C-2)

Method of measuring, paragraphs 37-45

Method of measuring, paragraphs 37-45												
			Size (i	nches)	,							
20	22	24	26	28	30	32	34	Tolerances (plus or				
		minus)										
2	4	6	8	10	12	14	16					
10 38 29 5	$11 \\ 41 \\ 32 \\ 5\frac{1}{2}$	12 44 36 6	$13$ $47$ $40$ $6\frac{1}{2}$	14 50 44 7	15 53 48 7½	16 56 51 8	17 59 54 8½	6 percent. 1½ inches. Do. 1 inch.				
11 10	12 11	13 12	14 13	15 14	$16\frac{1}{2}$ $15\frac{1}{2}$	18 17	$19\frac{1}{2}$ $18\frac{1}{2}$					
5 5 4 14 5 23	5½ 5 4 14 5 25	6 5 4 15 5 27	6 5 4 15 5 29	6½ 5 4 15 6 31	7 5 4 16 6 33	7 5 4 16 6 35	7½ 5 4 17 6 37	34 inch. Maximum. Do. 1 inch. 1½ inches. Do.				
	20 2 10 38 29 5 11 10 5 4 4 14 5	20 22 1 10 11 38 41 29 32 5 5½ 11 12 10 11 15 5 5½ 4 4 4 14 14 5 5 5	20 22 24 Age  2 4 6  10 11 12 38 41 44 29 32 36 5 5 5½ 6 11 12 13 10 11 12  5 5 5 5 4 4 4 14 14 15 5 5 5 5 5 5 5 5 5	Size (i)  20   22   24   26    Age (approximate   2	Size (inches)  20   22   24   26   28    Age (approxima)  2   4   6   8   10    10   11   12   13   14   44   47   50   29   32   36   40   44   45   5   5   5   5   5   5   4   4   4   4   4   4   14   14   15   15   15   5   5   5   5   5   6   6   6   6   6   7   11   12   13   14   15   15   15   15   16   16   17   18   17   18   18   18   19   19   19   19   19   10   10   11   12   13   11   12   13   14   12   13   14   15   15   5   5   5   5   16   17   18   17   18   19   18   19   19   19   19   19   19   19   19	Size (inches)  20   22   24   26   28   30    Age (approximate)  2   4   6   8   10   12    10   11   12   13   14   15   15   29   32   36   40   44   48   5   5   5   2   6   6   6   2   7   7   7    11   12   13   14   15   16   15   10   11   12   13   14   15   16   2    5   5   5   5   5   5   5   5   4   4   4   4   4   4   14   14   15   15   15   16   5   5   5   5   5   6   6   5   5   5   5   5   6   6   6   6   6   6   7   7   7   7   7   7   7   8   7   7   7   9   7   7   9   7	Size (inches)  20   22   24   26   28   30   32    Age (approximate)  2   4   6   8   10   12   14    10   11   12   13   14   15   16   38   41   44   47   50   53   56   29   32   36   40   44   48   51   5   5   5   6   6   6   2   7   7   7   5   5   5   5   5   5   5   4   4   4   4   4   4   4   14   14	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				

Total length of knee length and shorter suits may vary according to style.
 Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder, with tolerance of 1 inch plus or minus.

Table 30.—Union Suits—Standard measurements for children's ribbed  $(1 \times 1)$ cotton

(U. I. C-1) Method of measuring, paragraphs 37-45

				Size (iı	nches)				
Location	20	22	24	26	28	30	32	34	Tolerances
Location			Ag	e (appi	roxima	te)			(plus or minus)
-	2	4	6	8	10	12	14	16	
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Trunk Total length (ankle length suit) 1 Width of leg: 7, 8, 9, 10 cut 11, 12, 14 cut	93/4 91/4 38 29 47/8 45/8	934 914 41 32 478 458	$     \begin{array}{r}       10\frac{1}{2} \\       10 \\       44 \\       36     \end{array} $	10½ 10 47 40 5¼ 5	11 <sup>1</sup> / <sub>4</sub> 10 <sup>3</sup> / <sub>4</sub> 50 44 55 <sup>8</sup> 5 <sup>3</sup> / <sub>8</sub>	$12$ $11\frac{1}{2}$ $53$ $48$ $6$ $5\frac{3}{4}$	1234 1214 56 51 63% 61%	13 59 54 63⁄4	Do. 1½ inches. Do. 1 inches.
Sleeve length: For military nonelastic shoulder For lap seam elastic shoulder	11 10	12 11	13 12	14 13	15 14	$16\frac{1}{2}$ $15\frac{1}{2}$	18 17	$19\frac{1}{2}$ $18\frac{1}{2}$	
For set-in shoulder 2 Armhole length Leg cuff length (if cuff is used) Sleeve cuff length (if cuff is used) Collarette length Quarter sleeve lengths Length knee-length suit	5 5 4 14 5 23	51/2 5 4 14 5 25	6 5 4 15 5 27	6 5 4 15 5 29	6½ 5 4 15 6 31	7 5 4 16 6 33	7 5 4 16 6 35	7½ 5 4 17 6 37	34 inch. Maximum. Do. 1 inch. 1½ inches. Do.

Table 31.—Union Suits—Standard measurements for children's ribbed  $(1 \times 1)$ worsted, worsted-merino, wool, and wool-cotton

[Made from fabric that has been washed in the roll and then cut and seamed]

(U. I. C-3)

Method of measuring, paragraphs 37-45

				Size (i	nches)						
Location	20	22	24	26	28	30	32	34	Tolerances		
Location			Ag	e (appi	roxima	te)			(plus or minus)		
	2	4	6	8	10	12	14	16			
Width of garment: 7, 8, 9, 10 cut	934 914 38 29 478 456 11 10 5 5 4 14 5 23	$\begin{array}{c} 934\\ 994\\ 41\\ 32\\ 476\\ 456\\ 12\\ 11\\ \hline 00000000000000000000000000000000000$	10½ 10 44 36 5¼ 5 13 12 6 5 4 15 5 27	10½ 10 47 40 5¼ 5 14 13 	111/4 103/4 50 44 55/8 55/8 15 14 	12 111½ 53 48 6 534 16½ 15½ 7 5 4 16 6 33	123/4 121/4 56 51 63/8 61/8 17 7 5 4 16 6 35	13½ 13 59 54 6½ 19½ 18½ 7½ 5 4 17 6 37	Do.		

<sup>1</sup> Total length of knee length and shorter suits may vary according to style.
2 Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder with tolerance of 1 inch plus or minus.

<sup>&</sup>lt;sup>1</sup> Total length of knee length and shorter suits may vary according to style.
<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder with tolerance of 1 inch plus or minus.

# UNION SUITS—CHILDREN'S TUCK STITCH, KNEE LENGTH METHOD OF MEASURING

125. Width of garment at waist line  $(1 \times 1 \text{ rib portion})$ .—Measured across garment at narrowest part of body of garment. (From H to J, fig. 18.)

126. Trunk.—Twice the distance measured from point where shoulder joins neck opening to center of bottom line of crotch. Spread



FIGURE 18.—Union suits—children's tuck stitch, knee length.

legs in measuring only sufficiently to adjust crotch. (Twice A to D, fig. 18.)

127. Total length.—Measured from point where shoulder joins neck

opening to bottom edge of leg. (From A to B, fig. 18.)

128. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. (One-half

length of armhole band.) (From F to N, fig. 18.)

129. Neck opening.—Measured from point where shoulder joins neck opening around inner edge of neck opening back to starting point or twice the distance across aperture of neck opening secured by grasping opposite sides of neck opening and bringing the two opposite edges parallel.

Table 32.—Union Suits—Standard measurements for children's tuck stitch—knee length

(U. I. C-4)

٠		20	22	24	26	28	30	32	34		
	Location		Tolerances (plus or minus)								
		2 4   6 8   10 12   14 16									
-		Infa	nts' 1	Sm	all <sup>1</sup>	Med	ium ¹	Lar	ge 1		
Width of garib portion, Trunk (all st Total length Armhole leng Neck opening	yles) th	7 38 23 7 27	$7$ $41$ $24\frac{1}{2}$ $7$ $27$	$7\frac{1}{2}$ $44$ $26$ $8$ $30$	7½ 47 27½ 8 30	8 50 29½ 9 33	8 53 31 9 33	8½ 56 33 10 36	8½ 59 34½ 10 36	2 inches.	

¹ Wherever the "small", "medium", and "large" designations are used to cover 2 or more numbered sizes the measurements should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of children's tuck stitch union suits where the "medium" designation is used to cover sizes 28 and 30, the total length used as a standard for the "medium" designation should be the average of 29½ and 31 inches, or 30¼ inches. The same tolerances should apply as used for the numbered sizes. In this case, with a tolerance of plus or minus 2 inches allowed, the "medium" children's tuck stitch union suit may measure in total length from 28¼ to 32¼ inches.
² Total lengths may vary according to style.

#### <sup>2</sup> Total lengths may vary according to style.

#### VESTS—CHILDREN'S FLAT KNIT COTTON

#### BUILT-UP SHOULDER

#### METHOD OF MEASURING

130. Width of garment.—Measured across garment 1 inch below

bottom of armholes. (From H to J, fig. 19.)
131. Total length.—Measured from point where shoulder joins collarette or neck opening, or from center of shoulder strap, if sleeveless garment, to bottom edge of vest. (From A to B, fig. 19.)

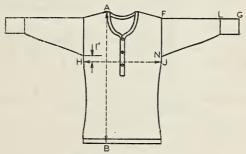


Figure 19.—Vests—children's flat knit cotton, built-up shoulder.

132. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve or of sleeve cuff if cuff is used. (From F to G, fig. 19.)

133. Armhole length.—For vests with sleeves, measured from point where sleeve is attached to shoulder to lowest point under arm. For sleeveless garment, measured from top point of shoulder at shoulder along outer edge of armhole to lowest point under arm. (From F to N, fig. 19.)

134. Sleeve cuff length (if cuff is used).—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff. (From L

to G, fig. 19.)

135. Neck opening.—For button chest garment, measured from center of neck opening buttoned around inner edge of neck opening to outside end of buttonhole. If garment is pullover type, measured from point where shoulder joins neck opening around inner edge of neck opening back to starting point.

Table 33.—Vests—Standard measurements for children's flat knit cotton—built-up shoulder, dutch neck, elbow sleeve

		(0.1	. (-0)						
	20	22	24	26	28	30	32	34	Tolerances
Location				(plus or minus)					
	2	4	6	8	10	12	14	16	
Width of garment (all gages)	10 17½ 6 5 4 17	11 18½ 6 5½ 4 18	$ \begin{array}{c} 12 \\ 20\frac{1}{2} \\ 7 \\ 6 \\ 4 \\ 19 \end{array} $	$ \begin{array}{c} 13 \\ 22^{1/2} \\ 7 \\ 6 \\ 4 \\ 19 \end{array} $	$ \begin{array}{c} 14 \\ 24 \frac{1}{2} \\ 8 \\ 6 \frac{1}{2} \\ 4 \\ 21 \end{array} $	$ \begin{array}{c} 15 \\ 26 \\ 8 \\ 6 \\ 4 \\ 21 \end{array} $	16 27½ 9 7 4 23	17 29 9 7 4 23	6 percent. 1 inch. Do. 34 inch. Maximum. 1 inch.

Table 34.—Vests—Standard measurements for children's flat knit cotton—built-up shoulder, high neck, long sleeve

(U. I. C-6)

	(0.1	. 0 0/						
20	22	24	26	28	30	32	34	Tolerances (plus or
		Ag	e (appi	roxima	te)	`		minus)
2	4	6	8	10	12	14	16	1
10 17 <sup>1</sup> / <sub>2</sub> 10 5 4 14	$11 \\ 18\frac{1}{2} \\ 11 \\ 5\frac{1}{2} \\ 4 \\ 14$	$12$ $20\frac{1}{2}$ $12$ $6$ $4$ $15$	$ \begin{array}{c} 13 \\ 22\frac{1}{2} \\ 13 \\ 6 \\ 4 \\ 15 \end{array} $	14	$15\frac{1}{2}$	16 27½ 17 7 4 16	$17$ $29$ $18\frac{1}{2}$ $7$ $4$ $17$	6 percent. 1 inch. Do. 3/4 inch. Maximum. 1 inch.
	2 10 17½ 10 5 4	20 22 2 4 10 11 17½ 18½ 10 11 5 5 5 5 4 4 4	20   22   24    Ag  2   4   6    10   11   12   17½   18½   20½   10   11   12   5   5½   6   4   4   4	Size (i  20   22   24   26    Age (app)  2   4   6   8  10   11   12   13   171/2   181/2   201/2   221/2   10   11   12   13   5   51/2   6   6   4   4   4   4	Size (inches)  20 22 24 26 28  Age (approxima  2 4 6 8 10  10 11 12 13 14 171/2 181/2 201/2 221/2 241/2 10 11 12 13 14 5 5 51/2 6 6 6 61/2 4 4 4 4 4 4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Table 35.—Vests—Standard measurements for children's flat knit cotton—built-up shoulder, low neck, no sleeve

		(0.	ı. C-0)								
			•	Size (i	nches)						
Location	20	22	24	26	28	30	32	34	Tolerances		
Location		(plus or minus)									
	2	4	6	8	10	12	14	16			
Width of garment (all gages) Total length Armhole length Neck opening	$ \begin{array}{c} 10 \\ 17\frac{1}{2} \\ 6 \\ 27 \end{array} $	$\begin{array}{c} 11 \\ 18\frac{1}{2} \\ 6\frac{1}{2} \\ 28 \end{array}$	$12 \\ 20\frac{1}{2} \\ 7 \\ 29\frac{1}{2}$	13 22½ 7 31	$\begin{array}{c} 14 \\ 24\frac{1}{2} \\ 7\frac{1}{2} \\ 32\frac{1}{2} \end{array}$	$ \begin{array}{c} 15 \\ 26 \\ 7\frac{1}{2} \\ 34 \end{array} $	16 27½ 8 35½	17 29 8 37	6 percent. 1 inch. 34 inch. 2 inches.		

Table 36.—Vests—Standard measurements for children's flat knit cotton—built-up shoulder, low neck, short sleeve

(U. I. C-6)

Location	20	22	24	26	28	30	32	34	Tolerances (plus or
		minus)							
	2	4	6	8	10	12	14	16	
Width of garment (all gages) Total length Sleeve length Armhole length Sleeve cuff length (if cuff is used) Neck opening	10. 17½ 4½ 5½ 4 27	11 18½ 4½ 6 4 28	$   \begin{array}{c}     12 \\     20\frac{1}{2} \\     5 \\     6\frac{1}{2} \\     4 \\     29\frac{1}{2}   \end{array} $	$   \begin{array}{c}     13 \\     22\frac{1}{2} \\     5 \\     6\frac{1}{2} \\     4 \\     31   \end{array} $	$14$ $24\frac{1}{2}$ $5\frac{1}{2}$ $7$ $4$ $32\frac{1}{2}$	15 26 5½ 7 4 34	$ \begin{array}{c} 16 \\ 27\frac{1}{2} \\ 6 \\ 7\frac{1}{2} \\ 4 \\ 35\frac{1}{2} \end{array} $	$   \begin{array}{c}     17 \\     29 \\     6 \\     7^{1}/_{2} \\     4 \\     37   \end{array} $	6 percent. 1 inch. Do. 34 inch. Maximum. 2 inches.

Table 37.—Vests—Standard measurements for children's ribbed  $(1 \times 1)$  straight—lightweight, low neck, no sleeves, built-up shoulder

(U. I. C-7)
Method of measuring, paragraphs 76-79

Location										
	20	22	24	26	28	30	32	34	Tolerances (plus or	
		minus)								
	2	4	6	8	10	12	14	16		
Width of garment (all cuts) Total length Armhole length Neck opening	834 17½: 6½ 27	83/4 19 61/2 28	9½ - 20½ 7 29	$9\frac{1}{2}$ $22$ $7\frac{1}{2}$ $30$	$ \begin{array}{c c} 10\frac{1}{4} \\ 23\frac{1}{2} \\ 7\frac{1}{2} \\ 31\frac{1}{2} \end{array} $	101/4 25 8 33	$\begin{array}{c} 11 \\ 26\frac{1}{2} \\ 8\frac{1}{2} \\ 34\frac{1}{2} \end{array}$	$   \begin{array}{c}     11 \\     28\frac{1}{2} \\     8\frac{1}{2} \\     36   \end{array} $	6 percent. 1 inch. Do. 2 inches.	

Table 38.—Vests—Standard measurements for children's ribbed (1×1) straight cotton—built-up shoulder, dutch neck, elbow sleeve, heavyweight

(U. I. C-5) Method of measuring, paragraphs 130–135

		Size (inches)									
Location	20	22	24	26	28	30	32	34	Tolerances		
		(plus or minus)									
	2	4	6	8	10	12	14	16			
Width of garment: 7, 8, 9, 10 cut	10 9 <sup>1</sup> / <sub>2</sub> 17 <sup>1</sup> / <sub>2</sub> 6 5 4 17	10 9 <sup>1</sup> / <sub>2</sub> 18 <sup>1</sup> / <sub>2</sub> 6 5 <sup>1</sup> / <sub>2</sub> 4 18	$   \begin{array}{c}     10^{3}4 \\     10^{1}4 \\     20^{1}2 \\     7 \\     6 \\     4 \\     19   \end{array} $	$   \begin{array}{c}     10^{3}4 \\     10^{1}4 \\     22^{1}2 \\     7 \\     6 \\     4 \\     19   \end{array} $	$ \begin{array}{c} 11^{3}4\\ 11^{1}4\\ 24^{1}2\\ 8\\ 6^{1}2\\ 4\\ 21 \end{array} $	$ \begin{array}{c} 11^{3}4\\ 11^{1}4\\ 26\\ 8\\ 6^{1}2\\ 4\\ 21 \end{array} $	12 <sup>3</sup> / <sub>4</sub> 12 <sup>1</sup> / <sub>4</sub> 27 <sup>1</sup> / <sub>2</sub> 9 7 4 23	12¾ 12¼ 29 9 7 4 23	6 percent. Do. 1 inch. Do. 34 inch. Maximum. 1 inch.		

 $\begin{array}{lll} \textbf{Table} & 39.-Vests-Standard \ \textit{measurements for children's ribbed} & (1\times 1) \ \textit{straight} \\ & cotton-built-up \ \textit{shoulder, high neck, long sleeve, heavy weight} \end{array}$ 

(U. I. C-5)

#### Method of measuring, paragraphs 130-135

0,1									
Location	20	22	24	26	28	30	32	34	Tolerances
		(plus or minus)							
	2	4	6	8	10	12	14	16	
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Total length Sleeve length Armhole length Sleeve cuff length (if cuff is used) Neck opening	$   \begin{array}{c}     10 \\     9\frac{1}{2} \\     17\frac{1}{2} \\     10 \\     5 \\     4 \\     14   \end{array} $	10 9 <sup>1</sup> / <sub>2</sub> 18 <sup>1</sup> / <sub>2</sub> 11 5 <sup>1</sup> / <sub>2</sub> 4 14	$   \begin{array}{c}     10\frac{3}{4} \\     10\frac{1}{4} \\     20\frac{1}{2} \\     12 \\     6 \\     4 \\     15   \end{array} $	$   \begin{array}{c}     10^{3}4 \\     10^{1}4 \\     22^{1}2 \\     13 \\     6 \\     4 \\     15   \end{array} $	$ \begin{array}{c} 11^{3}4\\ 11^{1}4\\ 24^{1}2\\ 14\\ 6^{1}2\\ 4\\ 15 \end{array} $	$ \begin{array}{c} 11^{3}4\\ 11^{1}4\\ 26\\ 15^{1}2\\ 6^{1}2\\ 4\\ 16 \end{array} $	$   \begin{array}{c}     12^{3} 4 \\     12^{1} 4 \\     27^{1} 2 \\     17 \\     7 \\     4 \\     16   \end{array} $	12 <sup>3</sup> / <sub>4</sub> 12 <sup>1</sup> / <sub>4</sub> 29 18 <sup>1</sup> / <sub>2</sub> 7 4 17	6 percent. Do. 1 inch. Do. 3/4 inch. Maximum. 1 inch.

Table 40.—Vests—Standard measurements for children's ribbed (1 $\times$ 1) straight cotton—built-up shoulder, low neck, no sleeve, heavy weight .

(U. I. C-5)

#### Method of measuring, paragraphs 130-135

Location									
	20	22	24	26	28	30	32	34	Tolerances (plus or
		minus)							
	2	4	6	8	10	12	14	16	
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Total length Armhole length Neck opening	10 9½ 17½ 6 27	$ \begin{array}{c} 10 \\ 9\frac{1}{2} \\ 18\frac{1}{2} \\ 6\frac{1}{2} \\ 28 \end{array} $	$   \begin{array}{c}     10\frac{3}{4} \\     10\frac{1}{4} \\     20\frac{1}{2} \\     7 \\     29\frac{1}{2}   \end{array} $	$   \begin{array}{c}     10^{3} 4 \\     10^{1} 4 \\     22^{1} 2 \\     7 \\     31   \end{array} $	$ \begin{array}{c} 11\frac{3}{4} \\ 11\frac{1}{4} \\ 24\frac{1}{2} \\ 7\frac{1}{2} \\ 32\frac{1}{2} \end{array} $	$   \begin{array}{c}     11\frac{3}{4} \\     11\frac{1}{4} \\     26 \\     7\frac{1}{2} \\     34   \end{array} $	$12^{3}/4$ $12^{1}/4$ $27^{1}/2$ $8$ $35^{1}/2$	$12\frac{3}{4}$ $12\frac{1}{4}$ $29$ $8$ $37$	6 percent. Do. 1 inch. 34 inch. 2 inches.

 $\begin{array}{lll} \textbf{Table} & 41.-Vests-Standard \ \textit{measurements for children's ribbed} \ (1\times 1) \ \textit{straight} \\ & cotton-built-up \ \textit{shoulder, low neck, short sleeve, heavy weight} \end{array}$ 

(U. I. C-5)

#### Method of measuring, paragraphs 130-135

, particular and a second									
Location									
	20	22	24	26	28	30	32	34	Tolerances
		(plus or minus)							
	2	4	6	8	10	12	14	16	
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Total length Sleeve length Armhole length Sleeve cuff length (if cuff is used) Neck opening	10 9½ 17½ 4½ 5½ 4 27	$ \begin{array}{c c} 10 & 91/2 \\ 91/2 & 181/2 \\ 41/2 & 6 \\ 4 & 28 \end{array} $	201/2	5	$   \begin{array}{c}     11\frac{3}{4} \\     11\frac{1}{4} \\     24\frac{1}{2} \\     5\frac{1}{2} \\     7 \\     4 \\     32\frac{1}{2}   \end{array} $	$   \begin{array}{c}     11\frac{3}{4} \\     11\frac{1}{4} \\     26 \\     5\frac{1}{2} \\     7 \\     4 \\     34   \end{array} $	$12\frac{3}{4}$ $12\frac{1}{4}$ $27\frac{1}{2}$ $6$ $7\frac{1}{2}$ $4$ $35\frac{1}{2}$	29 6	Do. 1 inch. Do.

Table 42.—Vests—Standard measurements for children's swiss rib straight—light weight, low neck, no sleeves, built-up shoulder

(U. I. C-8) Method of measuring, paragraphs 76-79

			-, -						
-				Size (i	nches)				
Location	20	22	24	26	28	30	32	34	Tolerances (plus or
Location			Ag	e (appi	oxima	te)			minus)
	2	4	6	8	10	12	14	16	
Width of garment: 12 cut	$7 \\ 6\frac{1}{2} \\ 18 \\ 7 \\ 24\frac{1}{2}$	$7 \\ 6\frac{1}{2} \\ 20 \\ 7 \\ 25$	$7\frac{1}{2}$ $7$ $22$ $8$ $25\frac{1}{2}$	7½ 7 24 8 26	8 *7½ 26 9 27½	8 7½ 28 9 29	$     \begin{array}{r}       8^{1/2} \\       8 \\       30 \\       10 \\       30^{1/2}     \end{array} $	32 10	10 percent. Do. 1 inch. Do. 2 inches.

## VESTS-CHILDREN'S TUCK STITCH

### LOW NECK, NO SLEEVES, BUILT-UP SHOULDER

#### METHOD OF MEASURING

136. Width of garment at waist line (1×1 rib portion).—Measured across garment at narrowest part of body of garment. (From H to J. fig. 20.)

137. Total length.—Measured from top edge of shoulder strap to bottom edge of vest. (From A to B, fig. 20.)

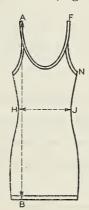


FIGURE 20 .- Vests-children's tuck stitch, low neck, no sleeves, built-up shoulder.

138. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. (One-half length of armhole band.) (From F to N, fig. 20.)

139. Neck opening.—Measured from point where shoulder joins

neck opening around inner edge of neck opening back to starting point or twice the distance across aperture of neck opening secured by grasping opposite sides of neck opening and bringing the two opposite edges parallel.

Table 43.—Vests—Standard measurements for children's tuck stitch—low neck, no sleeves, built-up shoulder

		(0.1	. C-9)							
•				Size (i	nches)					
	20	22	24	26	28	30	32	34		
Location	Age (approximate)								Tolerances (plus or minus)	
	2 —	24 68 1012 1416								
	Infa	nts'	Sm	all	Med	lium	La	rge		
Width of garment at waistline (1×1 rib portion) all cuts	$ \begin{array}{c} 61/2 \\ 20 \\ 7 \\ 26 \end{array} $	6½ 20 7 26	7 23 8 30	7 23 8 30	7½ 25 9 33	7½ 25 9 33	8 27 10 36	8 27 10 36	10 percent. 1 inch. Do. 2 inches.	

# PART V. INFANTS' GARMENTS—STANDARD MEAS-UREMENTS AND METHODS IN DETAIL

Table 44.—Bands—Standard measurements for infants'

(U. I. I-1)

Method of measuring, paragraphs 6-11

Location		S		Tolerances			
Location	1	2	3	4	5	6	(plus or minus)
Width of garment (all cuts) Total length Shoulder strap width Shoulder strap length Armhole (circumference) Neck opening (circumference)	$ \begin{array}{c} 6 \\ 91/2 \\ 11/4 \\ 23/4 \\ 83/4 \\ 161/2 \end{array} $	$ \begin{array}{c} 6\frac{1}{2} \\ 10\frac{1}{2} \\ 1\frac{1}{4} \\ 3 \\ 9\frac{1}{4} \\ 17 \end{array} $	7 11 <sup>1</sup> / <sub>2</sub> 1 <sup>1</sup> / <sub>4</sub> 3 <sup>1</sup> / <sub>4</sub> 10 18	$ 7\frac{1}{2} 13 1\frac{1}{4} 3\frac{1}{2} 10\frac{1}{2} 19 $	$ \begin{array}{c} 8 \\ 14\frac{1}{2} \\ 1\frac{1}{4} \\ 3\frac{3}{4} \\ 11 \\ 20 \end{array} $	8½ 16 1¼ 4 11¾ 21	6 percent. 1/2 inch. 1/4 inch. Do. 1/2 inch. Do.

# BANDS, ABDOMINAL—INFANTS' RIBBED (1imes1) KNIT

## SINGLE OR DOUBLE THICKNESS

#### METHOD OF MEASURING

140. Width of band.—Measured across band at right angles to total length. (From C to D, fig. 21.)

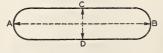


FIGURE 21.—Bands—abdominal.

141. Total length.—Measured lengthwise between extreme ends of band. (From A to B, fig. 21.)

'Table 45.—Bands, Abdominal—Standard measurements for infants' ribbed (1×1)—(single or double thickness)

(U. I. I-3)

Location	Single thick-	Double thick-	Tolerances
	ness	ness	(plus or minus)
Width of band	5 22	5 22	½ inch. 1 inch.

Table 46.—Shirts—Standard measurements for infants'

(U, I, I-1)

Method of measuring, paragraphs 32-36

Location		S	ize (nu	mbers	)		Tolerances
DOCATION	1	2	3	4	5	6	(plus or minus)
Width of garment (all cuts)	$\begin{array}{c} 6\frac{1}{4} \\ 10\frac{1}{2} \\ 7\frac{1}{2} \end{array}$	$6\frac{3}{4}$ $11\frac{1}{2}$ $8$	$\begin{array}{c} 7\frac{1}{4} \\ 12\frac{1}{2} \\ 8\frac{1}{2} \end{array}$	73/4 14 91/4	$   \begin{array}{r}     8\frac{1}{2} \\     15\frac{1}{2} \\     10   \end{array} $	$9\frac{1}{4}$ $17$ $10\frac{3}{4}$	6 percent. ½ inch. Do.
Sleeve length (short) straight	$2\frac{1}{2}$	3	3½	3½	4	4	¼ inch.
Armhole length Neck opening (circumference)	33/4 91/2	$\frac{4^{1}_{4}}{9^{1}_{2}}$	$\frac{4^{1}/2}{10^{1}/2}$	$10\frac{434}{1012}$	$\frac{5}{11\frac{1}{2}}$	$5\frac{1}{4}$ $11\frac{1}{2}$	½ inch. Do.

1 Same as straight sleeve, since measurement is taken from bottom of armhole.

# PART VI. MEN'S GARMENTS—STANDARD MEASUREMENTS AND METHODS IN DETAIL

# COATS, SPORT—MEN'S FLAT COTTON FLEECE LINED WINDBREAKER AND BUTTON FRONT TYPES

#### METHOD OF MEASURING

142. Width of garment.—Measured across buttoned or closed garment 1 inch below bottom of armholes. (From H to J, fig. 13.)

143. Total length.—Measured from point where shoulder joins collar on windbreaker type or stolling on button-front type, to bottom edge of garment. (From A to B, fig. 13.)

144. Sleeve length.—Measured from lowest point under arm to

lower outside edge of sleeve. (From N to G, fig. 13.)

145. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under arm. (From F to N, fig. 13.)

146. Collar length.—(Windbreaker type only).—Measured from end of neck seam around neck seam to opposite end of neck seam.

147. Border rib length.—(Windbreaker type only).—Measured from middle of seam attaching rib to edge of garment to bottom edge of border rib. (From C to D, fig. 13.)

Table 47.—Coats, Sport—Standard measurements for men's flat cotton fleece lined—windbreaker and button front types

(U. I. M-22)

Location					Size	(incl	nes)			` .		Tolerances
Docarion	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment: Both types. Total length: Windbreaker type. Button front type Sleeve length: Both types Armhole length:	17 25 26 21	18 25 26 21	19 25 26 21	20 26 27 22	21 26 27 22	22 27 28 22	23 27 28 23	24 28 29 23	25 28 29 23	26 29 30 23	27 29 30 23	6 percent.  1 inch. Do.
Both typesCollar length: Windbreaker type only	9	9 15½	9	9½	9½ 16½	, -		10 17	10 18	10 18½	10 19	Do.
Border rib length: Windbreaker type only 1	51/2		5½		_	1			5½	1		

<sup>1</sup> Given as a guide only, not as a standard.

Table 48.—Drawers—Standard measurements for men's cotton knee-length—flat knit regular

(U. I. M-19)

Method of measuring, paragraphs 12-20

							1						
Togetien	Location Size (inches)												
Location	30	32	34	36	38	40	42	44	46	48	50	minus)	
Total length Waist Front rise Back rise Width across seat Width of thigh Length front opening	$\begin{array}{c} 22\\ 30\\ 13^{3}4\\ 15^{1}2\\ 15^{1}2\\ 7^{3}4\\ 10 \end{array}$	$\begin{array}{c} 22\frac{1}{2} \\ 32 \\ 14 \\ 15\frac{3}{4} \\ 16\frac{1}{2} \\ 8\frac{1}{4} \\ 10\frac{1}{4} \end{array}$	23 34 14 <sup>1</sup> / <sub>4</sub> 16 17 <sup>1</sup> / <sub>2</sub> 8 <sup>3</sup> / <sub>4</sub> 10 <sup>1</sup> / <sub>2</sub>	$\begin{array}{c} 23^{1}_{2} \\ 36 \\ 14^{1}_{2} \\ 16^{1}_{4} \\ 18^{1}_{2} \\ 9^{1}_{4} \\ 10^{3}_{4} \end{array}$	24 38 14 <sup>3</sup> / <sub>4</sub> 16 <sup>1</sup> / <sub>2</sub> 19 <sup>1</sup> / <sub>2</sub> 9 <sup>3</sup> / <sub>4</sub> 11	$\begin{array}{c} 24\frac{1}{2} \\ 40 \\ 15 \\ 16\frac{3}{4} \\ 20\frac{1}{2} \\ 10\frac{1}{4} \\ 11\frac{1}{4} \end{array}$	1034	$\begin{array}{c} 25\frac{1}{2} \\ 44 \\ 15\frac{1}{2} \\ 17\frac{1}{4} \\ 22\frac{1}{2} \\ 11\frac{1}{4} \\ 11\frac{3}{4} \end{array}$	26 46 16 17 <sup>3</sup> / <sub>4</sub> 23 <sup>1</sup> / <sub>2</sub> 11 <sup>3</sup> / <sub>4</sub> 12	26½ 48 16½ 18¼ 24½ 12¼ 12¼	$\begin{array}{c} 27 \\ 50 \\ 17 \\ 18^{3}4 \\ 25^{1/2} \\ 12^{3}4 \\ 12^{1/2} \end{array}$	1 inch. Do. 34 inch. Do. 1 inch. 1/2 inch. Do.	

Table 49.—Drawers—Standard measurements for men's cotton knee-length—ribbed  $(1 \times 1)$ 

(U. I. M-19)

Method of measuring, paragraphs 12-20

Location				Tolerances (plus or								
Location	30	32	34	36	38	40	42	44	46	48	50	minus)
Total length Waist Front rise Back rise Width across seat Width of thigh Length front opening	23 30 1334 15½ 14 7	$23\frac{1}{2}$ $32$ $14$ $15\frac{3}{4}$ $14\frac{1}{2}$ $7\frac{1}{4}$ $10\frac{1}{4}$	24 34 14 <sup>1</sup> / <sub>4</sub> 16 15 <sup>1</sup> / <sub>2</sub> 7 <sup>3</sup> / <sub>4</sub> 10 <sup>1</sup> / <sub>2</sub>	$24\frac{1}{2}$ $36$ $14\frac{1}{2}$ $16\frac{1}{4}$ $16\frac{1}{2}$ $8\frac{1}{4}$ $10\frac{3}{4}$	$25$ $38$ $14^{3}4$ $16^{1}2$ $17^{1}2$ $8^{3}4$ $11$	$ \begin{array}{c} 25\frac{1}{2} \\ 40 \\ 15 \\ 16\frac{3}{4} \\ 18\frac{1}{2} \\ 9\frac{1}{4} \\ 11\frac{1}{4} \end{array} $	$26$ $42$ $15\frac{1}{4}$ $17$ $19\frac{1}{4}$ $95\frac{1}{8}$ $11\frac{1}{2}$	26½ 44 15½ 17¼ 20 10 11¾	$\begin{array}{c} 27 \\ 46 \\ 16 \\ 1734 \\ 2012 \\ 1014 \\ 12 \end{array}$	$27\frac{1}{2}$ $48$ $16\frac{1}{2}$ $18\frac{1}{4}$ $21$ $10\frac{1}{2}$ $12\frac{1}{4}$	28 50 17 18 <sup>3</sup> / <sub>4</sub> 21 <sup>1</sup> / <sub>2</sub> 10 <sup>3</sup> / <sub>4</sub> 12 <sup>1</sup> / <sub>2</sub>	1 inch. Do. 3/4 inch. Do. 1 inch. 1/2 inch. Do

Table 50.—Drawers—Standard measurements for men's flat knit cotton, and men's flat knit worsted, worsted-merino, wool, and wool-cotton

[Either made from fabric that has been washed in the roll and then cut and seamed or for garments that are washed and fulled after seaming]

(U. I. M-18)

#### Method of measuring, paragraphs 12-20

Location		Size (inches)													
Location	30	32	34	36	38	40	42	44	46	48	50	(plus or minus)			
Total length Weist Front rise Back rise Width across seat Width of thigh Width of calf Length front opening Drawer cuff length	39 30 1334 15½ 15½ 8½ 6⅓ 10 6	$     \begin{array}{r}       3934 \\       32 \\       14 \\       1534 \\       1612 \\       9 \\       614 \\       1014 \\       6     \end{array} $	$\begin{array}{c} 40\frac{1}{2} \\ 34 \\ 14\frac{1}{4} \\ 16 \\ 17\frac{1}{2} \\ 9\frac{1}{2} \\ 6\frac{1}{2} \\ 10\frac{1}{2} \\ 6 \end{array}$	$\begin{array}{c} 4114 \\ 36 \\ 141/2 \\ 161/4 \\ 181/2 \\ 10 \\ 63/4 \\ 103/4 \\ 6 \end{array}$	$\begin{array}{c} 42\\38\\1434\\161/2\\191/2\\101/2\\7\\11\\6\end{array}$	$\begin{array}{c} 423/4 \\ 40 \\ 15 \\ 163/4 \\ 201/2 \\ 11 \\ 71/4 \\ 111/4 \\ 6 \end{array}$	$\begin{array}{c} 43\frac{1}{2} \\ 42 \\ 15\frac{1}{4} \\ 17 \\ 21\frac{1}{2} \\ 11\frac{1}{2} \\ 7\frac{1}{2} \\ 11\frac{1}{2} \\ 6 \end{array}$	$\begin{array}{c} 44\\ 44\\ 15\frac{1}{2}\\ 17\frac{1}{4}\\ 22\frac{1}{2}\\ 12\\ 7\frac{3}{4}\\ 11\frac{3}{4}\\ 6\\ \end{array}$	$44\frac{1}{2}$ $46$ $16$ $17\frac{3}{4}$ $23\frac{1}{2}$ $12\frac{1}{2}$ $8$ $12$ $6$	45 48 16½ 18¼ 24½ 13 8⅓ 12¼ 6	$\begin{array}{c} 45\frac{1}{2} \\ 50 \\ 17 \\ 18\frac{3}{4} \\ 25\frac{1}{2} \\ 13\frac{1}{2} \\ 8\frac{1}{8} \\ 12\frac{1}{2} \\ 6 \end{array}$	1 inch. Do. 34 inch. Do. 1 inch. 6 percent. Do. ½ inch. Maximum.			

Table 51.—Drawers—Standard measurements for men's ribbed  $(1 \times 1)$  cotton and men's ribbed  $(1 \times 1)$  worsted, worsted-merino, wool, and wool-cotton

[Made from fabric that has been washed in the roll and then cut and seamed]

#### (U. I. M-17)

#### Method of measuring, paragraphs 12-20

Location		1			Size	(inch	es)				-	Tolerances (plus or
Liocation	30	32	34	36	38	40	42	44	46	48	50	minus)
Total length Waist Front rise Back rise Width across seat Width of thigh Width of calf Length front opening Drawer cuff length	39 30 13 <sup>3</sup> / <sub>4</sub> 15 <sup>1</sup> / <sub>2</sub> 14 7 <sup>3</sup> / <sub>4</sub> 5 10 6	$ \begin{array}{c} 39\frac{3}{4} \\ 32 \\ 14 \\ 15\frac{3}{4} \\ 14\frac{1}{2} \\ 8 \\ 5\frac{1}{4} \\ 10\frac{1}{4} \\ 6 \end{array} $	$\begin{array}{c} 40\frac{1}{2} \\ 34 \\ 14\frac{1}{4} \\ 16 \\ 15\frac{1}{2} \\ 8\frac{1}{2} \\ 5\frac{3}{8} \\ 10\frac{1}{2} \\ 6 \end{array}$	$\begin{array}{c} 41\frac{1}{4} \\ 36 \\ 14\frac{1}{2} \\ 16\frac{1}{4} \\ 16\frac{1}{2} \\ 9 \\ 5\frac{1}{2} \\ 10\frac{3}{4} \\ 6 \end{array}$	$\begin{array}{c} 42 \\ 38 \\ 14^{3}4 \\ 16^{1}2 \\ 17^{1}2 \\ 9^{1}2 \\ 5^{3}4 \\ 11 \\ 6 \end{array}$	$42\frac{3}{4}$ $40$ $15$ $16\frac{3}{4}$ $18\frac{1}{2}$ $10$ $5\frac{7}{8}$ $11\frac{1}{4}$ $6$	$\begin{array}{c} 43\frac{1}{2} \\ 42 \\ 15\frac{1}{4} \\ 17 \\ 19\frac{1}{4} \\ 10\frac{1}{4} \\ 6 \\ 11\frac{1}{2} \\ 6 \end{array}$	$\begin{array}{c} 44\\ 44\\ 15, 1\\ 20\\ 10^{3}4\\ 61^{8}\\ 11^{3}4\\ 6\end{array}$	$44\frac{1}{2}$ $46$ $16$ $173\frac{4}{2}$ $20\frac{1}{2}$ $11$ $6\frac{1}{4}$ $12$ $6$	$\begin{array}{c} 45 \\ 48 \\ 16 \frac{1}{2} \\ 18 \frac{1}{4} \\ 21 \\ 11 \frac{1}{4} \\ 6 \frac{3}{8} \\ 12 \frac{1}{4} \\ 6 \end{array}$	$\begin{array}{c} 45\frac{1}{2} \\ 50 \\ 17 \\ 18\frac{3}{4} \\ 21\frac{1}{2} \\ 11\frac{1}{2} \\ 6\frac{1}{2} \\ 12\frac{1}{2} \\ 6 \end{array}$	Do. 34 inch. Do. 1 inch.

Table 52.—Shirts—Standard measurements for men's flat knit cotton

#### (U. I. M-12)

#### Method of measuring, paragraphs 21-27

Location					Size	e (incl	nes)				,	Tolerances (plus or
Hotation	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment¹ (all gages).  Total length Sleeve length Armhole length Sleeve cuff length Neck opening: Button front Pullover neck Quarter sleeve length	17 29 21 8 5½ 16 19 7	18 29 21 8 5½ 16 19 7	19 31 21 8 5½ 17 20 7	20 31 22 9 5½ 17 20 7	21 33 22 9 5½ 17 20 7	22 33 22 9 5½ 18 21 7	23 33 22 9 5½ 18 21 7	24 34 23 10 5½ 18 21 7	25 34 23 10 5½ 19 22 7	26 35 23 10 5½ 19 22 7	27 35 23 10 5½ 19 22 7	6 percent. 1 inch. Do. Do. Maximum. 1 inch. Do. 1½ inches.

<sup>&</sup>lt;sup>1</sup> On sizes 52 and 54, wherever widths specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.

Table 53.—Shirts-Standard measurements for men's ribbed  $(1 \times 1)$  cotton (U. I. M-11)

Method of measuring, paragraphs 21-27

Gio. (i.e.).														
					Size	(incl	nes)					Tolerances		
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)		
Width of garment: 1 8, 9, 10 cut 11, 12, 14 cut Total length Sleeve length: For military nonelastic	$13\frac{1}{2}$ $13$ $31$	14½ 13¾ 31	$15$ $14\frac{1}{2}$ $32$	15 <sup>3</sup> / <sub>4</sub> 15 <sup>1</sup> / <sub>4</sub> 33	$16\frac{1}{2}$ $15\frac{3}{4}$ $34$	$17\frac{1}{4}$ $16\frac{1}{2}$ $34$	18 17 <sup>1</sup> ⁄ <sub>4</sub> 34	18 <sup>3</sup> ⁄ <sub>4</sub> 18 35	$19\frac{1}{2}$ $18\frac{1}{2}$ $35$		21 19½ 36	6 percent. Do. 1 inch.		
shoulder	22	22	22	23	23	23	23	24	24	24	24	Do.		
For lap seam elastic shoulder For set-in shoulder 2	21	21	21	22	22	22	22	23	23	23	23	Do.		
Armhole length Sleeve cuff length Collarette length:	8 5½	8 5½	8 5½	$\frac{9}{5\frac{1}{2}}$	$\frac{9}{5\frac{1}{2}}$	$\frac{9}{5\frac{1}{2}}$	$\frac{9}{5\frac{1}{2}}$	$\frac{10}{5\frac{1}{2}}$	10 5½	$\frac{10}{5\frac{1}{2}}$	$\frac{10}{5\frac{1}{2}}$	Do. Maximum.		
(Military high neck)Quarter sleeve length	18 7	18 7	19 7	19 7	19 7	20 7	20 7	20 7	$\frac{21}{7}$	21 7	21 7	1 inch. $1\frac{1}{2}$ inches.		

<sup>&</sup>lt;sup>1</sup> On sizes 52 and 54, wherever widths specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder, plus the amount or distance cut out of shoulder with tolerance of 1 inch plus or minus.

Table 54.—Shirts—Standard measurements for men's flat knit wool and wool-cotton
[For garments that are washed and fulled after seaming]

(U. I. M-13) Method of measuring, paragraphs 21-27

	IVI	etnoa	or me	easuri	ng, pa	ragra	pns 21	L-27				
					Size	(inch	ies)				- ]	Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment   (all gages) Total length Sleeve length Armhole length Sleeve cuff length Border rib length Collarette length: Button front Pullover neck	$17$ $32$ $20$ $9$ $5\frac{1}{2}$ $4$ $18$ $19$	18 32 20 9 5½ 4 18 19	$   \begin{array}{c}     19 \\     33 \\     20 \\     9 \\     51/2 \\     4   \end{array} $ $   \begin{array}{c}     19 \\     20   \end{array} $	$\begin{array}{c} 20 \\ 33 \\ 21 \\ 10 \\ 5\frac{1}{2} \\ 4 \end{array}$ $\begin{array}{c} 19 \\ 20 \end{array}$	21 33 21 10 5½ 4	$\begin{array}{c} 22\\ 34\\ 21\\ 10\\ 5\frac{1}{2}\\ 4 \end{array}$ $\begin{array}{c} 20\\ 21\\ \end{array}$	$\begin{array}{c} 23 \\ 34 \\ 21 \\ 10 \\ 5 \\ 4 \end{array}$ $\begin{array}{c} 20 \\ 21 \end{array}$	24 35 22 11 5½ 4	$\begin{array}{c} 25 \\ 35 \\ 22 \\ 11 \\ 5 \\ 4 \\ \end{array}$ $\begin{array}{c} 21 \\ 22 \\ \end{array}$	26 36 22 11 5½ 4 21 22	$\begin{array}{c} 27 \\ 36 \\ 22 \\ 11 \\ 5 \\ 4 \\ 21 \\ 22 \\ \end{array}$	6 percent. 1 inch. Do. Do. Maximum. Do. 1 inch. Do.

<sup>&</sup>lt;sup>1</sup> On sizes 52 and 54, wherever widths specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.

Table 55.—Shirts, Athletic—Standard measurements for men's knit pullover shirt—ribbed (1×1) and flat knit
(U. I. M-14)

Method of measuring, paragraphs 28-31

	IVI	etnou	01 111	easuri	ng, pa	tragra	pus ze	2-91				
•					Size	(incl	nes)					
Location	34 -	- 36	38	- 40	42 -	- 44	46 -	- 48	50	52	54	Tolerances (plus or minus)
For ribbed shirts only	Sm	Small 1 Medium 1			Lar	ge 1	Ex. 1	arge 1				
Width of garment: Rib knit (1×1) Flat knit Total length: Rib knit Flat knit Armhole length Collarette length 2	11 <sup>3</sup> ⁄ <sub>4</sub> 15 31 29 12 26	$12\frac{1}{2}$ $16$ $31$ $29$ $12$ $26$	13 <sup>1</sup> / <sub>4</sub> 17 32 31 13 27	14 18 33 31 13 27	14 <sup>3</sup> / <sub>4</sub> 19 34 33 14 28	$15\frac{1}{2}$ $20$ $34$ $33$ $14$ $28$	16 <sup>1</sup> ⁄ <sub>4</sub> 21 34 33 15 29	17 22 35 34 15 29	$17\frac{1}{2}$ $23$ $35$ $34$ $16$ $30$	18 24 36 35 16 30	$     \begin{array}{r}       18\frac{1}{2} \\       25     \end{array} $ $     \begin{array}{r}       36 \\       35 \\       16 \\       30     \end{array} $	6 percent. Do.  1 inch. Do. 2 inches. Do.

¹ Wherever the "small," "medium," and "large" designations are used to cover 2 or more numbered sizes, the measurements used should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of men's ribbed athletic shirts where the "medium" designation is used to cover sizes 38 and 40, the total length used as a standard for the "medium" designation should be the average of 32 and 33 inches, or 32½ inches. The same tolerances should apply as used for the numbered sizes. In this case, with a tolerance of plus or minus 1 inch allowed, the "medium" shirt may measure in total length from 31½ to 33½ inches.

² Collarette lengths may vary according to style.

Table 56.—Shirts, Athletic—Standard measurements for men's panel ribbed (needle out) knit pullover

[From fabric made on latch needle machines with other than swiss cams]

#### (U. I. M-15)

#### Method of measuring, paragraphs 28-31

					Size	(incl	nes)					
Location	34 -	- 36	38 -	- 40	42 -	- 44	46 -	- 48	50	52	54	Tolerances (plus or minus)
	Sm	all 1	Medi	ium 1	Lar	ge 1	Ex. la	arge 1	50	52	54	
Width of garment (panel rib) - Total length - Armhole length - Collarette length <sup>2</sup> -	10 <sup>3</sup> ⁄ <sub>4</sub> 31 12 26	11½ 31 12 26	12½ 32 13 27	13 33 13 27	13 <sup>3</sup> / <sub>4</sub> 34 14 28	14½ 34 14 28	15 <sup>1</sup> ⁄ <sub>4</sub> 34 15 29	16 35 15 29	16 <sup>1</sup> ⁄ <sub>2</sub> 35 16 30	17 36 16 30	17½ 36 16 30	6 percent. 1 inch. 2 inches. Do.

<sup>1</sup> Wherever the "small," "medium," and "large" designations are used to cover 2 or more numbered sizes, the measurements used should be the average of the standard measurements of the numbered sizes covered by the designation. Thus for the total length of men's panel-ribbed athletic shirts where the "medium" designation is used to cover sizes 38 and 40, the total length used as a standard for the "medium" designation should be the average of 32 and 33 inches, or 32½ inches. The same tolerances should apply as used for the numbered sizes. In this case, with a tolerance of plus or minus 1 inch allowed, the "medium" shirt may measure in total length from 31½ to 33½ inches.

2 Collegate longths may very according to style.

<sup>2</sup> Collarette lengths may vary according to style.

Table 57.—Shirts, Athletic—Standard measurements for men's swiss ribbed pullover

(U. I. M-16)

#### Method of measuring, paragraphs 28-31

					Size	e (incl	nes)					
Location	34 -	- 36	38 -	- <b>4</b> 0	42 -	- 44	46 -	- 48	50	52	54	Tolerances (plus or minus)
	Small Med			lium	La	rge	Ex. 1	arge 1		52	04	
Width of garment: Swiss rib: 12 cut	9 8	9 8	10 9	10 9	11 10	11 10	12 11	12	* 12 11	13 12	13 12	10 percent. Do.
Total length Armhole length Collarette length 1	32 12 26	32 12 26	33½ 13 27	33½ 13 27	35 14 28	35 14 28	36 15 29	36 15 29	36 16 30	36 16 30	36 16 30	1 inch. 2 inches. Do.

<sup>1</sup> Collarette lengths may vary according to style.

### SHIRTS, POLO—MEN'S KNITTED

#### METHOD OF MEASURING

148. Width of garment.—Measured across buttoned garment 1 inch below bottom of armholes. (From H to J, fig. 14.)

149. Total length.—Measured from point where shoulder joins collar to bottom edge of shirt. (From A to B, fig. 14.)

150. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G, fig. 14.)

151. Armhole length.—Measured from point where sleeve is attached

to shoulder to lowest point under arm. (From F to N, fig. 14.) 152. Collar length.—Measured from center of collar button around neck band to outside end of buttonhole.

Table 58.—Shirts, Polo—Standard measurements for men's flat knit all-wool (U. I. M-23)

Location					Size	e (incl	hes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment Total length Sleeve length Short sleeve Armhole length Collar length	16 28 22 11 9 14	$17$ $28$ $22$ $11$ $9$ $14\frac{1}{2}$	18 29 22 11 9½ 15	$\begin{array}{c} 19 \\ 29 \\ 23 \\ 12 \\ 9\frac{1}{2} \\ 15\frac{1}{2} \end{array}$	20 30 23 12 10 16	21 30 23 12 10 16½	22 31 23 12 10½ 17	23 31 24 13 10½ 17½	24 32 24 13 11 18	25 33 24 13 11 18½	26 33 24 13 11½ 19	6 percent. 1 inch. Do. Do. Do. Do. Do.

Table 59.—Shirts, Polo—Standard measurements for men's flat knit cotton and worsted-cotton

4	•	r	T	78.	4	-23)	ı
-1		U	J	- 43	Æ.	-43.	ı

Tasstian			, 		Size	(inch	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment Total length Sleeve length Short sleeve Armhole length Collar length	16 26 22 11 9 14	17 26 22 11 9 14½	$\begin{array}{c} 18 \\ 27 \\ 22 \\ 11 \\ 9\frac{1}{2} \\ 15 \end{array}$	19 28 23 12 9½ 15½	20 28 23 12 10 16	$21$ $29$ $23$ $12$ $10$ $16\frac{1}{2}$	$\begin{array}{c} 22 \\ 30 \\ 23 \\ 12 \\ 10\frac{1}{2} \\ 17 \end{array}$	$\begin{array}{c} 23 \\ 30 \\ 24 \\ 13 \\ 10\frac{1}{2} \\ 17\frac{1}{2} \end{array}$	24 31 24 13 11 18	25 32 24 13 11 18½	26 32 24 13 11½ 19	6 percent. 1 inch. Do. Do. Do. Do.

Table 60.—Shirts, Polo—Standard measurements for men's flat knit wool-cotton
(U. I. M-23)

Location					Size	(incl	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment Total length Sleeve length Short sleeve Armhole length Collar length	16 27 22 11 9 14	$17$ $27$ $22$ $11$ $9$ $14\frac{1}{2}$	18 28 22 11 9½ 15	$   \begin{array}{c}     19 \\     28 \\     23 \\     12 \\     9\frac{1}{2} \\     15\frac{1}{2}   \end{array} $	20 29 23 12 10 16	21 29 23 12 10 16½	$\begin{array}{c} 22\\ 30\\ 23\\ 12\\ 10^{1/2}\\ 17 \end{array}$	23 30 24 13 10½ 17½	24 31 24 13 11 18	25 32 24 13 11 18½	26 32 24 13 11½ 19	6 percent. 1 inch. Do. Do. Do. Do. Do.

Table 61.—Shirts, Polo—Standard measurements for men's ribbed (1×1) cotton (U. I. M-23)

T					Size	e (incl	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	.52	54	(plus or minus)
Width of garment: 12, 14 cut Total length Sleeve length Short sleeve Armhole length Collar length	13 26 22 11 9 14	$13\frac{3}{4}$ $26$ $22$ $11$ $9$ $14\frac{1}{2}$	$ \begin{array}{c} 14\frac{1}{2} \\ 27 \\ 22 \\ 11 \\ 9\frac{1}{2} \\ 15 \end{array} $	15½ 28 23 12 9½ 15½	16 28 23 12 10 16	16 <sup>3</sup> / <sub>4</sub> 29 23 12 10 16 <sup>1</sup> / <sub>2</sub>	17½ 30 23 12 10½ 17	18½ 30 24 13 10½ 17½	18¾ 31 24 13 11 18	19½ 32 24 13 11 18½	19 <sup>3</sup> / <sub>4</sub> 32 24 13 11 <sup>1</sup> / <sub>2</sub> 19	6 percent. 1 inch. Do. Do. Do. Do.

# SHIRTS, SWEAT-MEN'S FLAT FLEECE LINED

#### METHOD OF MEASURING

153. Width of garment.—Measured across garment 1 inch below

bottom of armholes. (From H to J, fig. 15.)

154. Total length.—Measured from point where shoulder joins collarette or neck opening to bottom edge of shirt. (From A to B,

fig. 15.)
155. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve cuff. (From F to G,

156. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under arm. (From F to N, fig. 15.)

157. Sleeve cuff length.—Measured from middle of seam attaching cuff to sleeve to upper outside edge of cuff. (From L to G, fig. 15.)

158. Neck opening.—Measured from point where shoulder joins collarette or neck opening around inner edge of collarette or neck opening back to starting point or twice the distance across aperture of collarette, or neck opening, secured by grasping opposite sides of collarette or neck opening and bringing the two opposite edges parallel. (From X to Y, fig. 7, A).

159. Border rib length.—Measured from middle of seam attaching

rib to edge of shirt to bottom edge of border rib. (From C to D,

fig. 15.)

Table 62.—Shirts, Sweat—Standard measurements for men's flat fleece-lined (U. I. M-21)

Tasstian					Size	(incl	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment	17 26 21 9 5 20 5½	18 26 21 9 5 21 5½	19 27 22 9 5 21 5½	$20$ $27$ $22$ $10$ $5$ $21$ $5\frac{1}{2}$	$\begin{array}{c} 21 \\ 28 \\ 23 \\ 10 \\ 5 \\ 22 \\ 5\frac{1}{2} \end{array}$	$22 \\ 28 \\ 23 \\ 10 \\ 5 \\ 22 \\ 5\frac{1}{2}$	23 29 23 10 5 22 5½	$24$ $29$ $23\frac{1}{2}$ $11$ $5$ $23$ $5\frac{1}{2}$	$25$ $29$ $23\frac{1}{2}$ $11$ $5$ $23$ $5\frac{1}{2}$	$\begin{array}{c} 26 \\ 29 \\ 23\frac{1}{2} \\ 11 \\ 5 \\ 23 \\ 5\frac{1}{2} \end{array}$	$27$ $29$ $23\frac{1}{2}$ $11$ $5$ $23$ $5\frac{1}{2}$	6 percent. 1 inch. Do. Do. Maximum. 1 inch. Maximum.

# SHORTS, ATHLETIC-MEN'S FLAT KNIT

#### METHOD OF MEASURING

160. Total length.—Measured from top outside edge of waistband to bottom edge of leg. (From A to B, fig. 22.)

161. Waist.—Twice the distance measured between the outside edges of waist band when garment is buttoned. (Twice A to C, fig. 22.)

162. Width across seat.—Measured across back of garment at a point halfway between bottom of crotch and top edge of waist band.

(From K to L, fig. 22.)

163. Width across bottom of leg.—Measured across leg along lower edge. (From B to E, fig. 22.)

164. Front rise.—Measured from bottom of crotch up front of buttoned garment to middle point of front edge of waist band. (From D to G, fig. 22.)

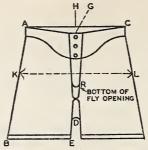


FIGURE 22.—Shorts, athletic—men's flat knit.

165. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H, fig. 22.)

fig. 22.)
166. Front opening.—Measured from bottom point of opening to top edge of waist band, garment buttoned. (From R to G, fig. 22.)

Table 63.—Shorts, Athletic—Standard measurements for men's flat knit
(U. I. M-20)

Location					Size	(incl	nes)					Tolerances (plus or
Location	30	32	34	36	38	40	42	44	46	48	50	minus)
Total length	$\begin{array}{c} 17 \\ 30 \\ 16 \\ 10\frac{1}{2} \\ 12\frac{1}{2} \\ 13\frac{1}{2} \\ 9 \end{array}$	$17\frac{1}{2}$ $32$ $17$ $11$ $13$ $14$ $9$	18 34 18 11 <sup>1</sup> / <sub>2</sub> 13 <sup>1</sup> / <sub>2</sub> 14 <sup>1</sup> / <sub>2</sub> 9 <sup>1</sup> / <sub>2</sub>	$18\frac{1}{2}$ $36$ $19$ $12$ $13\frac{1}{2}$ $14\frac{1}{2}$ $10$	$     \begin{array}{r}       19 \\       38 \\       20 \\       12 \\       14 \\       15 \\       10 \frac{1}{2}     \end{array} $	$\begin{array}{c} 19\frac{1}{2} \\ 40 \\ 21 \\ 12\frac{1}{2} \\ 14\frac{1}{2} \\ 15\frac{1}{2} \\ 11 \end{array}$	$\begin{array}{c} 20 \\ 42 \\ 22 \\ 12\frac{1}{2} \\ 14\frac{1}{2} \\ 15\frac{1}{2} \\ 11\frac{1}{2} \end{array}$	20 44 23 13 15 16 12	21 46 23½ 13 15 16 12	$\begin{array}{c} 22 \\ 48 \\ 24 \\ 13\frac{1}{2} \\ 15\frac{1}{2} \\ 16\frac{1}{2} \\ 12\frac{1}{2} \end{array}$	$\begin{array}{c} 22 \\ 50 \\ 24^{1}/2 \\ 13^{1}/2 \\ 15^{1}/2 \\ 16^{1}/2 \\ 12^{1}/2 \end{array}$	1 inch. Do. Do. 34 inch. Do. Do. ½ inch.

# Table 64.—Union Suits—Standard measurements for men's flat fleece

 $\hbox{ (U. I. } M-4)$  Method of measuring, paragraphs 37-45

Location					Size	(incl	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment (all gages) Trunk Total length (ankle) Width of leg (all gages) Sleeve length Armhole length Leg cuff length Sleeve cuff length Collarette length	17 58 55 8½ 20 9 6 5½ 18	18 60 56 9 20 9 6 5½ 18	$   \begin{array}{c}     19 \\     62 \\     57 \\     91/2 \\     20 \\     9 \\     6 \\     51/2 \\     19   \end{array} $	20 $64$ $58$ $10$ $21$ $10$ $6$ $51/2$ $19$	$ \begin{array}{c} 21 \\ 66 \\ 59 \\ 10^{1} \\ 21 \\ 10 \\ 6 \\ 5^{1} \\ 2 \end{array} $	$\begin{array}{c} 22 \\ 68 \\ 60 \\ 11 \\ 21 \\ 10 \\ 6 \\ 5 \\ 20 \end{array}$	$\begin{array}{c} 23 \\ 70 \\ 61 \\ 111\frac{1}{2} \\ 21 \\ 10 \\ 6 \\ 5\frac{1}{2} \\ 20 \end{array}$	$24$ $72$ $62$ $12$ $22$ $11$ $6$ $5\frac{1}{2}$ $20$	$25$ $74$ $63$ $12\frac{1}{2}$ $22$ $11$ $6$ $5\frac{1}{2}$ $21$	22 11 6	$27$ $78$ $65$ $13\frac{1}{2}$ $22$ $11$ $6$ $5\frac{1}{2}$ $21$	6 percent. 2 inches. 2½ inches. 1 inch. Do. Do. Maximum. Do. 1 inch.

Table 65.—Union Suits—Standard measurements for men's flat knit cotton (bleached fabric from carded yarns)

(U. I. M-2) Method of measuring, paragraphs 37-45

Location					Size	(incl	nes)					Tolerances (plus or
	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment 1 (all gages)_ Trunk	17 60	18 62	19 64	20 66	21 68	22 70	23 72	24 74	25 76	26 78	27 80	6 percent. 2 inches.
Total length (ankle length suit) Width of leg (all gages)	56 8½	57 9	58 9½	59 10	$60\frac{1}{2}$ $10\frac{1}{2}$	62 11	$63 \\ 11\frac{1}{2}$	64 12	65 12½	66 13	67 13½	2½ inches. 1 inch.
Sleeve length: For military nonelastic shoulder For lap seam elastic shoul-	22	22	22	23	23	23	23	24	24	24	24	Do.
der For set-in shoulder 2	21	21	21	22	22	22	22	23	23	23	23	Do.
Armhole length Leg cuff length Sleeve cuff length	8 6 5½	8 6 5½	8 6 5½	9 6 5½	9 6 5½	$\begin{array}{c} 9 \\ 6 \\ 5\frac{1}{2} \end{array}$	9 6 5½	$ \begin{array}{c} 10 \\ 6 \\ 5\frac{1}{2} \end{array} $	$ \begin{array}{c} 10 \\ 6 \\ 5\frac{1}{2} \end{array} $	$ \begin{array}{c} 10 \\ 6 \\ 5\frac{1}{2} \end{array} $	$ \begin{array}{c} 10 \\ 6 \\ 5\frac{1}{2} \end{array} $	Do. Maximum. Do.
Collarette length: Military high neck Quarter sleeve length	18	18	19 7	19	19	20	20	20	21 7	21 7	21 7	1 inch. 1½ inches.
Length knee-length suit 3 Length 34-length suit Men's "stouts":	40 53	41 54	42 55	43 56	44½ 57	46 58	47 59	48 60	49 61	50 62	51 63	2½ inches. Do.
(a) Total length(b) Sleeve length:	53	54	55	56	57	58	59	60	61	62	63	Do.
For military non- elastic shoulder For lap-seam elastic	19½		191/2		201/2	201/2	$20\frac{1}{2}$	211/2	21½		211/2	1 inch.
shoulder(c) Trunk(d) Width (all gages)	18½ 60 18	$18\frac{1}{2}$ $62$ $19$	$18\frac{1}{2}$ $64$ $20$	$19\frac{1}{2}$ $66$ $21$	19½ 68 22	19½ 70 23	$19\frac{1}{2}$ $72$ $24$	20½ 74 25	20½ 76 26	20½ 78 27	20½ 80 28	Do. 2 inches. 6 percent.

On sizes 52 and 54, wherever widths specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.
 Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus amount or distance cut out of shoulder, with tolerances of 1 inch plus or minus.
 Total length of knee length and shorter suits may vary according to style.

Table 66.—Union Suits—Standard measurements for men's ribbed  $(1 \times 1)$  cotton (bleached fabric from carded yarns)

(U. I. M-1) Method of measuring, paragraphs 37-45

Location					Size	(inch	nes)					Tolerances (plus or
Location	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment: 1	131/2	141/	15	15¾	161/2	171/4	18	18¾	1017	201/4	21	6
7, 8, 9, 10 cut 11, 12, 14 cut	1372	$14\frac{1}{4}$ $13\frac{3}{4}$	141/2	151/4	$15\frac{3}{4}$				19½ 18½		191/2	6 percent. Do.
Trunk	60	62	64	66	68	70	72	74	76	78	80	2 inches.
Total length (ankle-length					****							01//
suit) Width of leg:	56	57	58	59	601/2	62	63	64	65	66	67	2½ inches.
7, 8, 9, 10 cut	63/4	71/8	71/2	77/8	81/4	85/8	9	93/8	93/4	101/8	101/2	1 inch.
11, 12, 14 cut	61/2	67/8	71/4	75/8	77/8	81/4	85/8	9	91/4	912		Do.
Sleeve length:							2					
For military nonelastic shoulder	22	22	22	23	23	23	23	24	24	24	24	Do.
For lap seam elastic	22	22	22	20	20	20	20	24	24	24	24	D0.
shoulder	21	21	21	22	22	22	22	23	23	23	23	Do.
For set-in shoulder 2												
Armhole length	8	8	8	9	9	9	9	10	10	10	10	Do.
Leg cuff lengthSleeve cuff length	51/2	6 5½	6 5½	6 5½	6 5½	6 5½	6 5½	6 5½	6 5½	6 5½	6 5½	Maximum. Do.
Collarette length (military	072	372	072	072	072	072	372	072	372	072	072	D0.
high neck)	18	18	19	19	19	20	20	20	21	21	21	1 inch.
Quarter sleeve length	7	7	7	7	7	7	7	7	7	7	7	1½ inches.

<sup>&</sup>lt;sup>1</sup> On sizes 52 and 54, wherever widths specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder, plus the amount or distance cut out of shoulder with tolerances of 1 inch plus or minus.

Table 66.—Union Suits—Standard measurements for men's ribbed  $(1 \times 1)$  cotton (bleached fabric from carded yarns)—Continued

					Size	(inch	ies)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Length knee-length suit 3 Length 34 length suit Men's "stouts":	40 53	41 54	42 55	43 56	44½ 57	46 58	47 59	48 60	49 61	50 62	51 63	2½ inches. Do.
(a) Total length(b) Sleeve length: For military non-	53	54	55	56	57	58	59	60	61	62	63	Do.
elastic shoulder For lap-seam elastic	191/2	$19\frac{1}{2}$	191/2	$20\frac{1}{2}$	201/2	201/2	20½	211/2	$21\frac{1}{2}$	211/2	21 ½	1 inch.
shoulder(d) Width:	18½ 60	$\frac{181/2}{62}$	18½ 64	19½ 66	19½ 68	$\frac{191/2}{70}$	$\frac{191/2}{72}$	$\frac{201}{2}$	20½ 76	20½ 78	20½ 80	Do. 2 inches.
7, 8, 9, 10 cut 11, 12, 14 cut	$\frac{14\frac{1}{4}}{13\frac{3}{4}}$	15 14½	$15\frac{3}{4}$ $15\frac{1}{4}$				18¾ 18	19½ 18½	$\frac{201}{4}$	21 19½	21¾ 20	6 percent. Do.

<sup>3</sup> Total length of knee-length and shorter suits may vary according to style.

## UNION SUITS—MEN'S RIBBED (1 $\times$ 1) COTTON

NO SLEEVES, THREE-QUARTER LENGTH, BUTTON FRONT, AND LOW NECK, NO SLEEVES, THREE-QUARTER LENGTH, BUTTON SHOULDER METHOD OF MEASURING

167. Width of garment.—Measured across garment 1 inch below

bottom of armholes. (From H to J, fig. 8.)

168. Trunk.—Twice the distance measured from point where shoulder joins collarette to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch gusset. (Twice C to D, fig. 8.)

169. Total length.—Measured from center of shoulder strap to

bottom edge of leg. (From A to B, fig. 8.)

170. Width of leg.—Measured across leg of suit 6 inches below point D, figure 1, and must equal one-half width of garment within tolerance of one inch plus or minus. (From O to P, fig. 7.)
171. Armhole length.—Measured from top point of armhole at

shoulder along outer edge of armhole to lowest point under arm. (From F to N, fig. 8.)

172. Leg cuff length.—Measured from middle of seam attaching cuff to leg to outside bottom edge of cuff. (From K to B, fig. 7.)

173. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point.

Table 67.—Union Suits—Standard measurements for men's ribbed  $(1 \times 1)$  cotton low neck, no sleeves, three-quarter length, button shoulder

				(U. I.	. M-6	)						
Location					Size	(incl	nes)					Tolerances (plus or
Location	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment (all cuts) Trunk Total length (¾ length) Width of leg (all cuts) Armhole length Leg cuff length Collarette length: ¹ Button shoulder	121/4 60 53 61/8 12 6	13 62 54 6½ 12 6	1334 64 55 678 13 6	14½ 66 56 7¼ 13 6	15 68 57 71/2 14 6	1534 70 58 77/8 14 6	16½ 72 59 8¼ 15 6	171/4 74 60 85/8 15 6	76 61	1814 78° 62 91⁄8 16 6	1834 80 63 938 16 6	6 percent. 2 inches. Do. 1 inch. 2 inches. Maximum.

<sup>1</sup> Collarette lengths may vary according to style.

Table 68.—Union Suits—Standard measurements for men's ribbed (1×1) cotton-no sleeves, three-quarter length, button front

(U. I. M-5)

Location					Size	(inch	nes)					Tolerances (plus or
Totalion .	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment: 7, 8, 9, 10 cut. 11, 12, 14 cut. Trunk Total length (¾ length) Width of leg: 7, 8, 9, 10 cut. 11, 12, 14 cut. Armhole length Leg cuff length Collarette length: Button front	13½ 13 60 53 6¾ 6½ 12 6 20	14½ 13¾ 62 54 7½ 67% 12 6	15 14½ 64 55 7½ 7¼ 13 6	66 56	16½ 1534 68 57 814 77/8 14 6	17½ 16½ 70 58 8½ 8½ 14 6	18 171/4 72 59 9 85/8 15 6	1834 18 74 60 938 9 15 6	19½ 18½ 76 61 9¾ 9¼ 16 6	2014 19 78 62 1018 912 16 6	21 19½ 80 63 10½ 9¾ 16 6	6 percent. Do. 2 inches. Do. 1 inch. Do. 2 inches. Maximum. 2 inches.

Table 69.—Union Suits—Standard measurements for men's ribbed  $(1 \times 1)$  worsted, worsted-merino, wool, and wool-cotton

[Made from fabric that has been washed in the roll and then cut and seamed]

(U. I. M-3)

#### Method of measuring, paragraphs 37-45

				asum	-0, F							
Location					Size	(inch	nes)					Tolerances
Docation	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment: 1 7, 8, 9, 10 cut	131/2	141/4	15	153/4	161/2	171/4	18	1834	191/2	201/4	21	6 percent.
11, 12, 14 cut Trunk	13 60	$\frac{1334}{62}$	14½ 64	1514 66	15¾ 68	16½ 70		18 74	18½ 76	19 78	19½ 80	Do. 2 inches.
Total length (ankle length suit)Width of leg:	56	57	58	59	601/2	62	63	64	65	66	67	2½ inches.
7, 8, 9, 10 cut	6¾ 6½	73/8 67/8	7½ 7¼	77/8 75/8	8½ 7%	858 814	9 85%	93/8 9	93/4 91/4	10½ 9½	10½ 9¾	1 inch. Do.
For military nonelastic shoulder	22	22	22	23	23	23	23	24	24	24	24	Do.
For lap seam elastic shoul- der For set-in shoulder <sup>2</sup>	21	21	21	22	22	22	22	23	23	23	23	Do.
Armhole length Leg cuff length Sleeve cuff length	8 6 5½	8 6 512	8 6 5½	9 6 5½	9 6 5½	9 6 5½	9 6 5½	$\begin{array}{c} 10 \\ 6 \\ 5\frac{1}{2} \end{array}$	10 6 5½	10 6 5½	$   \begin{array}{c}     10 \\     6 \\     5\frac{1}{2}   \end{array} $	Do. Maximum. Do.
Collarette length (military high neck)	18	18	19	19 7	19	20 7	20 7	20 7	21 7	21 7	21 7	1 inch.
Length knee-length suit 3 Length: 34 length suit	40 53	41 54	42 55	43 56	44½ 57	46 58	47 59	48 60	49 61	50 62	51 63	2½ inches. Do.
Men's "stouts":  (a) Total length  (b) Sleeve length:	53	54	55	56	57	58	59	60	61	62	63	Do.
For military non- elastic shoulder For lap seam elastic	191/2	19½	191/2	201/2	201/2	201/2	201/2	21½	211/2	21½	211/2	1 inch.
shoulder (c) Trunk (d) Width:	18½ 60	$\frac{18\frac{1}{2}}{62}$	18½ 64	19½ 66	19½ 68	$\frac{191/2}{70}$	$\frac{191/2}{72}$	$\frac{20\frac{1}{2}}{74}$	$\frac{201}{2}$	$\frac{20\frac{1}{2}}{78}$	20½ 80	Do. 2 inches.
7, 8, 9, 10 cut	14¼ 13¾	15 14½	15¾ 15¼		$17\frac{1}{4}$ $16\frac{1}{2}$		18¾ 18	19½ 18½		21 19½	$\frac{2134}{20}$	6 percent. Do.

<sup>&</sup>lt;sup>1</sup> On sizes 52 and 54, wherever width specified cannot be produced on a single machine, fabric is to be taken from 2 smaller machines and seamed together to produce the specified widths.

<sup>2</sup> Sleeve lengths for set-in shoulder shall be the same as those for military nonelastic shoulder plus the amount or distance cut out of shoulder, with tolerance of 1 inch plus or minus.

<sup>3</sup> Total length of knee length and shorter suits may vary according to style.

Table 70 .- Union Suits, Athletic-Standard measurements for men's cotton flat knit-no sleeves, button shoulder, short leg

(U. I. M-8)

Method of measuring, paragraphs 46-51

Tarakina			-		Size	e (inch	ies)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment	15 60 38 9 12 26	$16 \\ 62 \\ 39 \\ 91/2 \\ 12 \\ 26$	17 64 40 10 13 27	18 66 41 10½ 13 27	19 68 42 11 14 28	20 70 43 11½ 14 28	21 72 44 12 15 29	22 74 45 12½ 15 29	23 76 46 13 16 30	24 78 47 13½ 16 30	25 80 48 14 16 30	6 percent. 2 inches. 2½ inches. 6 percent. 2 inches. Do.

Total length of athletic suits may vary according to style.
 Collarette lengths may vary according to style.

Table 71.—Union Suits, Athletic-Standard measurements for men's cotton ribbed  $(1 \times 1)$  knit—no sleeves, button shoulder, short leg

(U. I. M-7)

#### Method of measuring, paragraphs 46-51

Location					Size	(incl	nes)					Tolerances (plus or
Docation	34	36	38	40	42	44	46	48	50	52	54	minus)
Width of garment Trunk Total length 1. Width of leg bottom Armhole length Collarette length 2.	$12\frac{1}{4}$ $60$ $38$ $6\frac{1}{2}$ $12$ $26$	13 62 39 7 12 26	13 <sup>3</sup> ⁄ <sub>4</sub> 64 40 7 <sup>1</sup> ⁄ <sub>2</sub> 13 27	14½ 66 41 8 13 27	15 68 42 8 <sup>1</sup> / <sub>2</sub> 14 28	15 <sup>3</sup> / <sub>4</sub> 70 43 9 14 28	16½ 72 44 9½ 15 29	17½ 74 45 10 15 29	$17\frac{3}{4}$ $76$ $46$ $10\frac{1}{2}$ $16$ $30$	18½ 78 47 11 16 30	18 <sup>3</sup> / <sub>4</sub> 80 48 11 <sup>1</sup> / <sub>2</sub> 16 30	6 percent. 2 inches. 2½ inches. 6 percent. 2 inches. Do.

¹ Total length of athletic suits may vary according to style.
 ² Collarette lengths may vary according to style.

Table 72.—Union Suits, Athletic—Standard measurements for men's panel ribbed (needle out) knit-no sleeve, button shoulder, short leg

[Made from fabric on machines with other than swiss cams]

(U. I. M-9)

#### Method of measuring, paragraphs 46-51

					Siz	e (incl	nes)					Tolerances
Location	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment	11 <sup>1</sup> / <sub>4</sub> 60 38 6 12 26	12 62 39 6½ 12 26	12 <sup>3</sup> / <sub>4</sub> 64 40 7 13 27	13½ 66 41 7½ 13 27	68 42	14 <sup>3</sup> / <sub>4</sub> 70 43 8 <sup>1</sup> / <sub>2</sub> 14 28	15½ 72 44 9 15 29	16½ 74 45 9½ 15 29	16 <sup>3</sup> ⁄ <sub>4</sub> 76 46 10 16 30	17½ 78 47 10½ 16 30	173/4 80 48 11 16 30	6 percent. 2 inches. 2½ inches. 6 percent. 2 inches. Do.

<sup>&</sup>lt;sup>1</sup> Total length of athletic suits may vary according to style.
<sup>2</sup> Collarette lengths may vary according to style.

Table 73.—Union Suits, Athletic—Standard measurements for men's swiss ribbed knit—no sleeve, button shoulder, short leg

[Measurements herein given do not apply to fabrics made on flat bed machines]

(U. I. M-10)

Method of measuring, paragraphs 46-51

Location	Size (inches)											
Docamon	34	36	38	40	42	44	46	48	50	52	54	(plus or minus)
Width of garment:  Il and 12 cut	10 9 62 38 5½ 12 28	10 9 64 39 5½ 12 28	11 10 66 40 6 13 29	11 10 68 41 6 13 29	12 11 70 42 6½ 14 30	$   \begin{array}{c}     12 \\     11 \\     72 \\     43 \\     6 \\     14 \\     30   \end{array} $	13 12 74 44 7 15 31	13 12 76 45 7 15 31	13 12 78 46 7½ 16 32	14 13 80 47 7½ 16 32	14 13 82 48 8 16 32	10 percent. Do. 2 inches. 2½ inches. 6 percent. 2 inches. Do.

<sup>1</sup> Total lengths of athletic suits may vary according to style.

<sup>2</sup> Collarette lengths may vary according to style.

# PART VII. WOMEN'S GARMENTS—STANDARD MEASUREMENTS AND METHODS IN DETAIL

# BLOOMERS-WOMEN'S RIBBED (1×1)

# ELASTIC WAIST BAND, ELASTIC AT KNEE METHOD OF MEASURING

174. Total length.—Measured from outside edge of waist band (unstretched) to bottom edge of leg. (From A to B, fig. 16.)

175. Waist.—Twice the distance measured between outside edges of waist band when elastic in waist band is not stretched. (Twice A to C, fig. 16.)

176. Width across seat.—Measured across back of garment halfway between bottom of crotch and top edge of waist band. (From K to L, fig. 16.)

177. Width of leg bottom.—Measured across leg at bottom edge when

elastic is not stretched. (From B to E, fig. 16.)

178. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G, fig. 16.)

179. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H,

fig. 16.)

180. Width across crotch.—Measured at widest point of fold after garment has been folded in half lengthwise. (From F to J, fig. 16.)

Table 74.—Bloomers—Standard measurements for women's ribbed  $(1 \times 1)$ —elastic waist band, elastic at knee

(U. I. W-13)

Landian				Size	e (inch	es)				Tolerances
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Total length_ Waist_ Width across seat_ Width of leg bottom Front rise_ Back rise_ Width across crotch_	$ \begin{array}{c} 21 \\ 21 \\ 19 \\ 5\frac{1}{2} \\ 13\frac{1}{2} \\ 15 \\ 10\frac{1}{2} \end{array} $	22 22 20 6 14 15½ 11	23 23 21 6 14½ 16 11½	24 24 22 6½ 15 16½ 12	$25$ $25$ $23$ $7$ $15\frac{1}{2}$ $17$ $12\frac{1}{2}$	$25\frac{1}{2}$ $26$ $24$ $7$ $16$ $17\frac{1}{2}$ $13$	$   \begin{array}{c}     26 \\     27 \\     25 \\     7 \frac{1}{2} \\     16 \frac{3}{4} \\     18 \frac{1}{4} \\     13 \frac{1}{2}   \end{array} $	26½ 28 26 8 17½ 19	27 29 27 8 18 <sup>1</sup> / <sub>4</sub> 19 <sup>3</sup> / <sub>4</sub> 14 <sup>1</sup> / <sub>2</sub>	1 inch.  Do.  Do.  ½ inch.  34 inch.  Do.  ½ inch.

# DRAWERS—WOMEN'S RIBBED (1 $\times$ 1) COTTON—KNEE LENGTH, TIGHT KNEE

#### METHOD OF MEASURING

181. Total length.—Measured from outside edge of waist band to bottom edge of leg. (From A to B, fig. 23.)

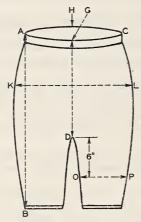


FIGURE 23.—Drawers—women's ribbed (1×1) cotton, knee length, tight knee.

182. Waist.—Twice the distance between the outside edges of waist band, when garment lies out smoothly. (Twice A to C, fig. 23.)

183. Width across seat.—Measured across back of garment half-way between bottom of crotch and top edge of waist band. (From K to L fig. 23.)

184. Width of thigh.—Measured across leg at point 6 inches below

bottom of crotch. (From O to P, fig. 23.)

185. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G, fig. 23.)

186. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H, fig. 23.)

Table 75.—Drawers—Standard measurements for women's ribbed (1×1) cotton knee length, tight knee

(U. I. W-12)

Taradian					Size	(incl	ies)					Tolerances
Location 30	30	32	34	36	38	40	42	44	46	48	50	(plus or minus)
Total length Waist. Width across seat. Width of thigh Front rise. Back rise	26 26 15 7½ 14 16	26½ 28 16 7½ 14½ 16½	30 17 8	28 31 18 8½ 15½ 17½	29 32 19 8½ 16½ 18½	29½ 34 20 9 17	$\begin{array}{c} 30 \\ 36 \\ 20\frac{1}{2} \\ 9\frac{1}{2} \\ 17\frac{1}{2} \\ 19\frac{1}{2} \end{array}$	30½ 38 21 10 18 20	31 40 22 10 19 21	$31\frac{1}{2}$ $41$ $23$ $10\frac{1}{2}$ $19$ $21$	43 24	1 inch. Do. Do. 6 percent. 3/4 inch. Do.

# PAJAMAS, SLEEPING-WOMEN'S BALBRIGGAN

## FLAT KNIT, TWO-PIECE, PULLOVER, SHORT SLEEVES OR SLEEVE-LESS, ELASTIC IN WAIST BAND

#### METHOD OF MEASURING

PAJAMA BLOUSE.

187. Width of garment.—Measured across garment 1 inch below bottom of armholes. (From H to J, fig. 24.)

188. Total length.—Measured from point where shoulder joins collarette or neck opening to bottom edge of blouse. (From A to B, fig. 24.)

189. Sleeve length.—Measured from point where sleeve is attached to shoulder to upper outside edge of sleeve. (From F to G, fig. 24.)

190. Armhole length.—Measured from point where sleeve is attached to shoulder to lowest point under arm or for sleeveless garment measured from top of armhole at shoulder along outer edge of armhole to lowest point under arm. (From F to N, fig. 24.)

PAJAMA TROUSERS.

191. Total length.—Measured from outside edge of waist band to

outside lower edge of leg. (From A to B, fig. 24.)

192. Waist.—Twice the distance measured between outside edges of waist band when elastic is not stretched. (Twice A to C, fig. 24.)

193. Width across crotch.—Measured at widest point of fold after garment has been folded in half lengthwise. (From D to N, fig. 24.)

194. Width across leg bottom.—Measured across leg along lower edge.

(From B to E, fig. 24.)

195. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G,

fig. 24.)

196. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H, fig. 24.)

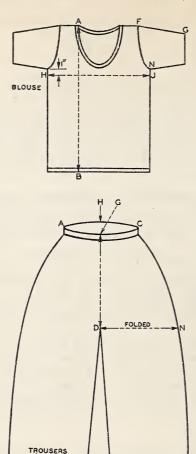


Figure 24.—Pajamas, Sleeping—women's balbriggan—flat knit, two-piece, pull-over, short sleeve or sleeveless, elastic in waist band.

Table 76.—Pajamas, Sleeping—Standard measurements for women's balbriggan—flat knit, two-piece, pullover, short sleeve or sleeveless, elastic in waist band

PAJAMA BLOUSE (U. I. W-15) Size (numbers) 15 16 17 (Alternative marking) Tolerances (plus or Location minus) 34/36 38/40 42/44 46/48 (Alternative marking) Small Medium Ex. large Large Width of garment.  $16\frac{1}{2}$   $23\frac{1}{2}$   $7\frac{1}{2}$  $18\frac{1}{2}$   $24\frac{1}{2}$   $7\frac{1}{2}$  $22\frac{1}{2}$   $26\frac{1}{2}$   $8\frac{1}{2}$ 6 percent. 1 inch. Total length. Do. Do. Sleeve length, short 1\_\_ Armhole length (short sleeve) \_\_\_\_\_\_Armhole length (sleeveless) \_\_\_\_\_ 10 10 2 inches.

<sup>&</sup>lt;sup>1</sup> Sleeve lengths may vary according to style.

Table 77.—Pajamas, Sleeping—Standard measurements for women's balbriggan flat knit, two-piece, pullover, short sleeve or sleeveless, elastic in waist band

PAJAMA TROUSERS

(U. I. W-15)

		Size (nu	mbers)					
Location	15	15 16 17 18						
Location		(plus or minus)						
	Small	Medium	Large	Ex. large				
Total lengthWaist	39½ 24	26	$\frac{411/4}{28}$	42 31	1 inch. Do.			
Width across crotch————————————————————————————————————	$12\frac{1}{2}$ $12\frac{1}{2}$ $15$	$13\frac{1}{2}$ $13\frac{1}{2}$ $16$	$14\frac{1}{2}$ $14\frac{1}{2}$ $17$	$15\frac{1}{2}$ $15\frac{1}{2}$ $18$				
Back rise	17	18	19	20	Do.			

## PANTIES-WOMEN'S TUCK STITCH-KNEE LENGTH

#### METHOD OF MEASURING

197. Total length.—Measured from top outside edge of waistband

to bottom edge of leg. (From A to B, fig. 17.)
198. Waist.—Twice the distance between outside edge of waist band when elastic in waist band is not stretched. (Twice A to C, fig. 17.)

199. Width across seat.—Measured across back of garment half way between bottom of crotch and top edge of back waist band. (From

K to L, fig. 17.)

200. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. (From D to G,

fig. 17.)

201. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. (From D to H, fig. 17.)

Table 78.—Panties—Standard measurements for women's tuck stitch—knee length (U. I. W-14)

				1	
Location	34 — 36	38 — 40	42 — 44	46 — 48	Tolerances (plus or minus)
	Small	Medium	Large	Extra large	,
Total length <sup>1</sup> Waist. Width across seat (all cuts). Front rise. Back rise.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c cccc}  & 19\frac{1}{2} & 19\frac{1}{2} \\  & 12\frac{1}{2} & 12\frac{1}{2} \end{array} $	21½ 21½ 21 21 13½ 13½ 13½ 14½ 14½ 16 16	23 23 15 15	1 inch. Do. 10 percent. 1 inch. Do.

<sup>1</sup> Total length may vary according to style.

Table 79.—Shoulder Straps—Standard practice of spacing on women's bodice top union suits and vests

(U. I. W-11)

Taration		Size (inches)								
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Front spacing between strap	7	71/4	$7\frac{1}{2}$	73/4	8	81/4	8½	83/4	9	½ inch.
Back spacing between strap	6	$6\frac{1}{4}$	$6\frac{1}{2}$	$6\frac{3}{4}$	7	71/4	$7\frac{1}{2}$	$7\frac{3}{4}$	8	Do.
ends.¹ Strap length	14	$14\frac{1}{2}$	15	$15\frac{1}{2}$	16	16½	17	17½	18	Do.

<sup>&</sup>lt;sup>1</sup> Spacing between ends of straps on front and back of garment is measured from inside edge of 1 strap to inside edge of the other strap. This measurement is taken after the garment is brought to the chest size.

Table 80.—Union Suits—Standard measurements for women's ribbed (1×1) cotton—dutch neck, elbow sleeve, ankle length, button front

(U. I. W-3)

Method of measuring, paragraphs 52-61

Taration				Size	(inche	es)				Tolerances
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Width of garment: 7, 8, 9, 10 cut	13½ 13 62 53 634 6½ 10 8 6	14 <sup>1</sup> / <sub>4</sub> 13 <sup>3</sup> / <sub>4</sub> 64 54 7 <sup>1</sup> / <sub>6</sub> 6 <sup>7</sup> / <sub>6</sub> 10 8 <sup>1</sup> / <sub>2</sub> 6	15 14½ 66 55 7½ 7¼ 10 9 6	1534 1514 68 56 778 758 10 91/2 6	16½ 1534 70 57 8¼ 778 11 9½ 6	1714 1612 72 58 856 814 11 10 6	18 171/4 74 59 9 85/8 11 101/2 6	18 <sup>3</sup> / <sub>4</sub> 18 76 60 9 <sup>3</sup> / <sub>8</sub> 9 11 10 <sup>1</sup> / <sub>2</sub> 6	19½ 18½ 78 61 9¾ 11 11 6	Do. 2 inches. 2½ inches. 1 inch. Do. Do. Do. Maximum.
Neck opening (dutch neck) Waist:	26	26	27	28	28	29	30	30	31	2 inches.
7, 8, 9, 10 cut	$\frac{23}{22\frac{1}{2}}$	24 23½	$25\frac{1}{2}$ $25$	27 26½	28 27½	29½ 29	31 30½	32 31½	33½ 33	6 percent. Do.

<sup>1</sup> Elbow sleeve lengths may vary according to style.

Table 81.—Union Suits—Standard measurements for women's ribbed  $(1 \times 1)$  cotton—high neck, long sleeve, ankle length

(U. I. W-1)

Method of measuring, paragraphs 52-61

	MECH	or or in	icasuii.	us, par	asraph	5 02 01				
Location			Tolerances (plus or							
Location	34	36	38	40	42	44	46	48	50	minus)
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Trunk Total length Width of leg: 7, 8, 9, 10 cut 11, 12, 14 cut Sleeve length Armhole length Leg cuff length (if cuff is used) Sleeve cuff length (if cuff is used) Neck opening (high neck) Waist: 7, 8, 9, 10 cut 11, 12, 14 cut	13½ 13 62 53 6 <sup>3</sup> 4 6½ 20 8 6 5½ 18	1414 1334 64 54 718 678 20 812 6 512 18 24 2312	15 141/ <sub>2</sub> 66 55 71/ <sub>2</sub> 71/ <sub>4</sub> 21 9 6 51/ <sub>2</sub> 19	1534 1514 68 56 778 758 21 91/2 6 51/2 19 27 261/2	16½ 15¾ 70 57 8¼ 7½ 21 9½ 6 5½ 19 28 27½	1714 1612 72 58 858 814 22 10 6 512 20 2912	18 171/4 74 59 9 85/8 22 101/2 6 51/2 20 31 301/2	183/4 1876 60 93/8 9 22 101/2 6 51/2 20 32 311/2	$     \begin{array}{r}       19142 \\       18142 \\       78 \\       61     \end{array} $ $     \begin{array}{r}       934 \\       914 \\       22 \\       11 \\       6     \end{array} $ $     \begin{array}{r}       5142 \\       21 \\     \end{array} $ $     \begin{array}{r}       33142 \\       33     \end{array} $	Do. 2 inches. 2½ inches. 1 inch. Do. Do. Do. Maximum. Do. 1 inch.

Table 82.—Union Suits—Standard measurements for women's ribbed  $(1 \times 1)$  cotton—low neck, no sleeves, knee length, built-up shoulder, tight knee

(U. I. W-5)

	Meth	od of n	neasuri	ng, par	agraph	ns 62-67				
Location		Size (inches)								Tolerances (plus or
	34	36	38	40	42	44	46	48	50	minus)
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut Trunk Total length   Armhole length Neck opening (low neck) Waist: 7, 8, 9, 10 cut 11, 12, 14 cut	12½ 11½ 62 40 9½ 40 21½ 21	13½ 12½ 64 41 10 42 22½ 22	$14$ $13$ $66$ $42$ $10$ $43$ $24$ $23\frac{1}{2}$	14 <sup>3</sup> ⁄ <sub>4</sub> 13 <sup>3</sup> ⁄ <sub>4</sub> 68 43 10 <sup>1</sup> ⁄ <sub>2</sub> 44 25 <sup>1</sup> ⁄ <sub>2</sub> 25	$   \begin{array}{c}     15\frac{1}{2} \\     14\frac{1}{2} \\     70 \\     44 \\     10\frac{1}{2} \\     45\frac{1}{2} \\     26\frac{1}{2} \\     26   \end{array} $	$16\frac{1}{4}$ $15\frac{1}{4}$ $72$ $45$ $11$ $47$ $28$ $27\frac{1}{2}$	17 16 74 46 11½ 48½ 29½ 29	$   \begin{array}{c}     17\frac{1}{2} \\     16\frac{1}{2} \\     76 \\     47 \\     11\frac{1}{2} \\     50 \\     \hline     30\frac{1}{2} \\     30   \end{array} $	18 17 78 48 12 51½ 32 31½	6 percent. Do. 2 inches. 1½ inches. 1 inch. 2 inches. 6 percent. Do.

<sup>&</sup>lt;sup>1</sup> Total length of trunk and sport leg models according to style. Tolerance  $\pm 1\frac{1}{2}$  inches.

Table 83.—Union Suits—Standard measurements for women's ribbed (1×1) cotton—medium weight, dutch neck, elbow sleeve, knee length

(U. I. W-4)

Method of measuring, paragraphs 68-75

Location		Size (inches)								
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Width of garment: 7, 8, 9, 10 cut	13½ 13 62 40 10 8 5½ 26 23 22½	141/4 133/4 64 41 10 81/2 51/2 26 24 231/2	15 14½ 66 42 10 9 5½ 27 25½ 25	1534 1514 68 43 10 912 512 28 27 2612	16½ 15¾ 70 44 11 9½ 5½ 28 28	17½ 16½ 72 45 11 10 5½ 29 29½	18 1734 74 46 11 101/2 53/2 30	18¾ 18 76 47 11 10½ 5½ 30 32 31½	19½ 18½ 78 48 11 11 5½ 31	6 percent. Do. 2 inches. 1½ inches. 1 inch. Do. Maximum. 2 inches. 6 percent. Do.

<sup>&</sup>lt;sup>1</sup> Total length of knee length suits may vary according to style.

Table 84.—Union Suits—Standard measurements for women's ribbed  $(1 \times 1)$  worsted, worsted-merino, wool and wool-cotton—high neck, long sleeve, ankle length

[Made from fabric that has been washed in the roll and then cut and seamed]

(U. I. W-2)

Method of measuring, paragraphs 52-61

	1/10/10	- OI III	casurii	is, par	тетари	3 02 01				
Location		size (inches)								Tolerances
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Width of garment: 7, 8, 9, 10 cut	131/2	141/4	15	15¾	161/2	1714	18	18¾	191/2	6 percent.
11, 12, 14 cut Trunk Total length Width of leg:	13 62 53	13¾ 64 54	14½ 66 55	15¼ 68 56	15¾ 70 57	16½ 72 58	17¼ 74 59	18 76 60	18½ 78 61	Do. 2 inches. 2½ inches.
7, 8, 9, 10 cut 11, 12, 14 cut Sleeve length	63/4 61/2	7½ 6%	7½ 7¼	77/8 75/8	8½ 7½	85/8 81/4	9 85/8	93/8 9 22	934 914	1 inch.
Armhole length Leg cuff length (if cuff is used) Sleeve cuff length (if cuff is used)	20 8 6	20 8½ 6	21 9 6	21 9½ 6	21 9½ 6	22 10 6	22 10½ 6	10½ 6	22 11 6	Do. Do. Maximum.
Neck opening (high neck) Waist:	5½ 18 23	53/2 18	5½ 19	5½ 19	5½ 19	5½ 20	5½ 20	20 20	5½ 21	Do. 1 inch.
11, 12, 14 cut	221/2	24 23½	25½ 25	27 26½	28 27½	29½ 29	31 30½	32 31½	33½ 33	6 percent. Do.

# UNION SUITS-WOMEN'S TUCK STITCH-KNEE LENGTH

#### METHOD OF MEASURING

202. Width of garment at waist line  $(1 \times 1)$  rib portion.—Measured across garment at narrowest part of body of garment. (From H to J.

fig. 18.)

203. Trunk.—Twice the distance measured from point where shoulder joins neck opening to center of bottom line of crotch. Spread legs in measuring only sufficiently to adjust crotch. (Twice A to D, fig. 18.)

204. Total length.—Measured from point where shoulder joins

neck opening to bottom edge of leg. (From A to B, fig. 18.)

205. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. (One-half length of armhole band.) (From F to N, fig. 18.)

206. Neck opening.—Measured from point where shoulder joins neck opening around inner edge of neck opening back to starting point or twice the distance across aperture of neck opening secured by grasping opposite sides of neck opening and bringing the two opposite edges parallel.

207. Length of leg opening (closed crotch style only).—Measured

from top point of opening to bottom of opening.

Table 85.—Union Suits—Standard measurements for women's tuck stitch—knee length

	_	_		_	
- / 1	T	I.	٦X	Т. 1	G)

Location	34 -	- 36	38 —	- 40	42 -	- 44	46 -	- 48	Tolerances (plus or minus)
	Sm	all	Med	ium	Laı	rge	Extra	large	
Width of garment at waist line (1×1 rib portion) all cuts	8½ 60 63 36½ 10 41 13½	8½ 60 63 36½ 10 41 13½	$9\frac{1}{2}$ $64$ $67$ $38\frac{1}{2}$ $11$ $44$ $14\frac{1}{2}$	$9\frac{1}{2}$ $64$ $67$ $38\frac{1}{2}$ $11$ $44$ $14\frac{1}{2}$	$   \begin{array}{c}     10\frac{1}{2} \\     68 \\     71 \\     40\frac{1}{2} \\     12 \\     47 \\     15\frac{1}{2}   \end{array} $	$10\frac{1}{2}$ $68$ $71$ $40\frac{1}{2}$ $12$ $47$ $15\frac{1}{2}$	12 72 75 42½ 13 50	12 72 75 42½ 13 50	10 percent.  2 inches. Do. Do. 1 inch. 2 inches.

<sup>1</sup> Total lengths may vary according to style.

# VESTS—WOMEN'S RIBBED (1 $\times$ 1) COTTON SHAPED

# LOW NECK, NO SLEEVES, BUILT-UP SHOULDER METHOD OF MEASURING

208. Width of garment.—Measured across garment 1 inch below bottom of armholes. (From H to J, fig. 25.)

209. Waist.—Twice the distance measured across garment at the narrowest part of the body of the garment. (Twice S to T, fig. 25.)

210. Total length.—Measured from top edge of shoulder strap to bottom edge of vest. (From A to B, fig. 25.)

211. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm (one-half length of armhole band). (From F to N, fig. 25.)
212. Neck opening.—Measured from point where shoulder joins neck opening around inner edge of neck opening back to starting

point, or twice the distance across aperture of neck opening secured

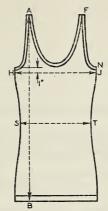


Figure 25.—Vests—women's ribbed  $(1 \times 1)$  cotton shaped, low neck, no sleeves, built-up shoulder.

by grasping the opposite sides of neck opening and bringing the two opposite edges parallel.

Table 86.—Vests—Standard measurements for women's ribbed  $(1 \times 1)$  cotton shaped—low neck, no sleeves, built-up shoulder

			(U. 1.	. W-7,	)					
				Tolerances						
Location	34	36	38	40	42	44	46	48	50	(plus or minus)
Width of garment: 7, 8, 9, 10 cut 11, 12, 14 cut. Waist: 7, 8, 9, 10 cut 11, 12, 14 cut Total length Armhole length Neck opening	$12\frac{1}{2}$ $11\frac{1}{2}$ $21\frac{1}{2}$ $21$ $32$ $9\frac{1}{2}$ $40$	$ \begin{array}{c} 13\frac{1}{4} \\ 12\frac{1}{4} \end{array} $ $ \begin{array}{c} 22\frac{1}{2} \\ 22 \\ 32 \\ 10 \\ 42 \end{array} $	14 13 24 23 <sup>1</sup> / <sub>2</sub> 33 10 43	$14\frac{3}{4}$ $13\frac{3}{4}$ $25\frac{1}{2}$ $25$ $34$ $10\frac{1}{2}$ $44$	$ \begin{array}{c} 15\frac{1}{2} \\ 14\frac{1}{2} \end{array} $ $ \begin{array}{c} 26\frac{1}{2} \\ 26 \\ 35 \\ 10\frac{1}{2} \\ 45\frac{1}{2} \end{array} $	16 <sup>1</sup> / <sub>4</sub> 15 <sup>1</sup> / <sub>4</sub> 28 27 <sup>1</sup> / <sub>2</sub> 35 11 47	$17$ $16$ $29\frac{1}{2}$ $29$ $36$ $11\frac{1}{2}$ $48\frac{1}{2}$	$   \begin{array}{c}     17\frac{1}{2} \\     16\frac{1}{2} \\     30\frac{1}{2} \\     30 \\     36 \\     11\frac{1}{2} \\     50   \end{array} $	18 17 32 31½ 37 12 51½	6 percent. Do. Do. Do. 1 inch. Do. 2 inches.

Table 87.—Vests—Standard measurements for women's ribbed  $(1 \times 1)$  straight light weight, low neck, no sleeves, built-up shoulder or bodice top

	(U. 1. W-8)
Method	of measuring, paragraphs 76–79

			reasarr								
		Tolerances									
Location	34	36	38	40	42	44	46	48	50	(plus or minus)	
Width of garments (all cuts) Total length (built-up shoulder	11	11½	121/4	13	13¾	14½	151/4	16	161/2	6 percent.	
or bodice top)	31	32	33	34	35	35½	36	361/2	37	1 inch.	
der type only) Neck opening (built-up shoul-	$9\frac{1}{2}$	10	101/2	101/2	11	$11\frac{1}{2}$	$11\frac{1}{2}$	12	12½	Do.	
der type only) Length of bodice strap	$\frac{391/2}{16}$	41 16	42½ 16	44 16	$\frac{451/2}{16}$	47 16	$\frac{481/2}{16}$	50 16	51½ 16	2 inches. Do.	

Table 88.—Vests-Standard measurements for women's swiss rib straightlight weight, low neck, no sleeves, built-up shoulder

(U, I, W-9) Method of measuring, paragraphs 76-79

Location		Tolerances (plus or								
Location	34	36	38	40	42	44	46	48	50	minus)
Width of garment: 12 cut	9 8 32 10 39½	9 8 33 10 41	10 9 34 10 42½	10 9 35 11 44	11 10 36 11 45½	11 10 37 11 47	12 11 38 12 48½	12 11 39 12 50	13 12 40 12 51½	10 percent. Do. 1 inch. 2 inches. Do.

## VESTS-WOMEN'S TUCK STITCH

## LOW NECK, NO SLEEVES, BUILT-UP SHOULDER

#### METHOD OF MEASURING

213. Width of garment at waistline  $(1 \times 1 \text{ rib portion})$ .—Measured across garment at narrowest part of body of garment. (From H to J. fig. 20.)

214. Total length.—Measured from top edge of shoulder strap to

bottom edge of vest. (From A to B, fig. 20.)

215. Armhole length. - Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm.

(One-half length of armhole band). (From F to N, fig. 20.) 216. Neck opening.—Measured from point where shoulder joins neck opening around inner edge of neck opening back to starting point or twice the distance across aperture of neck opening secured by grasping opposite sides of neck opening and bringing the two opposite edges parallel.

Table 89.—Vests—Standard measurements for women's tuck stitch—low neck, no sleeves, built-up shoulder

(U. I. W-10)

Location		34—36 Small		38—40 Medium		42—44 Large		-48	Tolerances (plus or minus)
								large	
Width of garment at waist line (1 × 1 rib portion) all cuts	8 28 10 41	8 28 10 41	9 30 11 44	9 30 11 44	10 32 12 47	10 32 12 47	11½ 34 13 50	11½ 34 13 50	10 per cent. 1 inch. Do. 2 inches.

## LABELING

217. In order that consumers may become familiar with the significance of standard measurements, it is recommended that knit underwear manufactured to conform to such standards be identified

by a tag or other label attached to the garment and carrying the following statement:

This garment is GUARANTEED by the manufacturer to be full size in accordance with Commercial Standard CS33-43 as issued by the National Bureau of Standards of the U. S. Department of Commerce.

or more briefly

FULL SIZE Conforming to CS33-43.

# RECOMMENDED SYMBOLS FOR DESIGNATING DIFFERENT MODELS

218. The following is a proposed system of standard symbols for designating different models or types of knit underwear to be used in marking underwear boxes. Symbols other than those proposed can

be added from time to time as necessity arises.

-219. Symbols always shall be given in the order of the groups as numbered. Thus neck symbols shall come first, sleeve second, length third, etc. The last group shall describe the class of garment other than regular. This may be the same as the manufacturers are using and should preferably be spelled out to avoid confusion. Symbols from each group, used in describing a garment, shall be separated by a comma, viz: HN, NS, AL/Stout. If more than one symbol from the same group is used in describing a garment, then they shall be used in the order that they are listed in each group, the first coming first, the second, second, and so on, the two or more symbols so used from the same group not being separated by comma—for example, DN, NS, KL, SLWK (dutch neck, no sleeve, knee length, shell leg, wide knee).

	110000	*** * *
	HN	High neck.
	LN	Low neck.
	DN	Dutch neck.
	VN	V neck.
	RN	Round neck.
	TN	Tubular neck.
	AN	Athletic neck.
2.	Sleeve:	
	LS	Long sleeve.
	SS	Short sleeve.
	NS	No sleeve.
		Elbow sleeve.
	. WS	Wing sleeve.
3.	Total length:	<u> </u>
	AL	Ankle length.
		Knee length.
	3/4L	-1.3/4-length.
	1/4L	Trunk length.
4.	Leg types:	
	ŠL	Shell leg.
	WL	Wide leg.
	WSL	Wide shell leg.
	TK	Tight knee. Wide knee.
	'WK	Wide knee.

1. Neck:

5.	Finish:	
	CF	Crochet finish.
	TF	Tubular finish.
	BT	Bodice top.
	EN	Envelope.
6.	Gussets:	_
	OG.	Open gusset.
	CG	Closed gusset.
	DS	Drop seat.
	OS	Open seat.
	CC	Closed crotch.
7:		
	Stout.	
	/Slim.	
	/For short men.	
	/Short.	
	Stub.	
	/Athletic.	
	/Slender.	
	/Tall.	
	•	

## RECOMMENDED UNDERWEAR BOX SIZES

# (Outside Measurements in Inches)

220. 16 by 9¼, for men's ribbed union suits.

17 by 10½, for men's heavy fleeced suits and fleeced shirts and drawers.

12½ by 9¼, for boys' and children's ribbed union suits.

14½ by 9¼, for boys' fleeced union suits and shirts and drawers. 13 by 8½, for boys' fleeced union suits and shirts and drawers.

# RECOMMENDED CONE COLORS FOR SINGLE COTTON YARNS

221. The following is a proposed system of designating single cotton yarn sizes by the colors of the cones upon which they are wound. Some knitting mills and some yarn mills have already adopted individual color codes and, in order to avoid further confusion, this code has been adopted by the Underwear Institute as a guide for mills wishing to standardize in this way.

Color of cone		Yarn si	zes	
Gray	6s 6.5s 7s 7.5s 8s 8.5s 9s 9.5s	12s 13s 14s 15s 16s 17s 18s 19s	24s 26s 28s 30s 32s 34s 36s 38s	70s 60s
Brown Purple Yellow	10s 10. 5s 11s	20s 22s	40s	80s
Pink	***	223	50s	100

# RECOMMENDED METHOD OF WASHING KNIT WOOL AND WOOL-COTTON UNDERWEAR

222. Washing.—Use only a mild soap that is free from excess alkali. If the soap is in powdered or chip form, dissolve it first in hot water. Do not rub bar soap directly on the garment, but cut thin slices of it and dissolve as for chip or powdered soap. Soak the garment for about one-half hour in warm water (about 100° F) with enough of the soap solution to give a good suds and then change to a clean bath of suds. Then press or squeeze the suds through the soiled spots until clean. Avoid rubbing garment on the washboard or between the hands, as this is a sure way to shrink woolen underwear.

223. Rinsing.—Rinse garment in clean warm water of approximately the same temperature as the washing solutions until all soap and dirt have been removed. Run through a wringer, using only light pressure on the rolls. Lay the garment on a flat surface (or whenever possible on a form) and stretch back to the original shape and size. Then hang it up by the top in a warm room or out of doors if the weather is warm and dry. Do not hang the garment out in

freezing weather when drying.

224. Avoid sharp contrasts in temperatures while washing, rinsing, and drying. Dry slowly.

225. Remember not to boil or rub goods in washing and rinsing, as

this causes shrinkage.

226. The use of soft water increases the efficiency of the soap. If the water is hard, soften first by adding borax.

## EFFECTIVE DATE

The standard is effective for new production from July 30, 1943.

### STANDING COMMITTEE

The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision, may be addressed to any member of the committee or to the Division of Trade Standards, National Bureau of Standards, which acts as secretary for the committee:

## Manufacturers:

Roy A. Cheney (chairman), Underwear Institute, Room 1219, 2 Park Avenue, New York (16), N. Y. RALPH M. Jones, Utica Knitting Co., Utica, N. Y.

E. C. Wilson, Munsingwear, Inc., Minneapolis, Minn.

### Distributors:

Gerald Grosner, Grosner of Washington, 1325 F Street, NW., Washington (25), D. C., Representing National Association of Retail Clothiers and Furnishers. L. P. Burrland, Burkland & Gaede, 300 W. Adams St., Chicago, Ill., Representing Wholesale Dry Goods Institute.

T. L. Blanke, National Retail Dry Goods Association, 101 W. 31 st. St. New

York (1), N. Y.

#### Consumers:

CLARICE L. Scott, Research Center, Beltsville, Md., Representing American Home Economics Association.

Mrs. Margaret H. Kingsbury, Purchasing Office, Department of Interior, Washington (25), D. C.

Mrs. Charlotte Payne. 501 Madison Ave., New York, N. Y., Representing National Council of Women of the United States, Inc.

# HISTORY OF PROJECT

Around 1920-22 the Associated Knit Underwear Manufacturers of America, feeling that the interest of the consumer is the first consideration of the manufacturer, and in view of the desire to be of service to the consumer, as well as the jobber and the retailer, began work on the collection of data looking toward the standardization of methods of measuring, measurements, and tolerances for knit underwear.

In order to get effective service in developing the technical and scientific details incident to the standardization project, C. H. Hamlin, a research associate representing the Associated Knit Underwear Manufacturers of America, was detailed to the National Bureau of Standards, Washington, D. C. Mr. Hamlin began his duties on July 26, 1923, and for 7½ years collected and tabulated essential data covering the measurements, tolerances, and method of measuring all types of knit underwear in an effort to set up standard specifications for these garments that would be acceptable to all classes of the industry.

On December 31, 1930, the Associated Knit Underwear Manufacturers of America, conscious of the fact that the data assembled were sufficiently accurate to be used by all manufacturers as a specification in the manufacture of knit underwear, requested the cooperation of the National Bureau of Standards in the establishment of a

commercial standard.

On February 19, 1931, a general conference, composed of manufacturers, distributors, and organized users of knit underwear, was held at the National Bureau of Standards in Washington, D. C. Comments, criticisms, and suggestions were invited, with the result that the conference voted that the measurements, tolerances, and other data relative to knit rayon underwear be omitted from the knit underwear standard and that the title for the standard be changed to read "Knit Underwear (Exclusive of Rayon)."

On June 18, 1931, a circular letter to the trade announced the success of the project and promulgated the standard as Commercial Standard CS33-32, effective for new production from January 1, 1932.

#### FIRST REVISION

On March 3, 1942, the Underwear Institute requested that this commercial standard be revised to include 30 additional garments, the measurements of which have been in general use over a period of years. Agreeable to this request, copies of the proposed additions, together with suggested minor changes in the original draft, were approved by a majority of the standing committee and circulated on December 7, 1942 to manufacturers, distributors, and consumers for written acceptance. The recommended revision was subsequently accepted and approved for promulgation by the United States Department of Commerce, as Knit Underwear (Exclusive of Rayon), Commercial Standard CS33-43. An announcement was issued on June 30, 1943, that the revised standard would become effective for new production from July 30, 1943.

Date

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# ACCEPTANCE OF COMMERCIAL STANDARD

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Division of Trade Standards, National Bureau of Standards, Washington, D. C.
Gentlemen: Having considered the statements on the reverse side of this sheet, we accept the Commercial Standard CS33-43 as our standard of practice in the
Production <sup>1</sup> Distribution <sup>1</sup> Use <sup>1</sup> Testing <sup>1</sup>
of knit underwear (exclusive of rayon).  We will assist in securing its general recognition and use and will cooperate with the standing committee to effect revisions of the standard when necessary.
Signature of individual officer(In ink)
(Kindly typewrite or print the following lines)
Name and title of above officer
Organization(Fill in exactly as it should be listed)
Street address
City and State
<sup>1</sup> Please designate which group you represent by drawing lines through the other three. Please file separate acceptances for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "in principle" should be added after the signature.

### TO THE ACCEPTOR

The following statements answer the usual questions arising in

connection with the acceptance and its significance:

1. Enforcement.—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices and the like.

2. The acceptor's responsibility.—The purpose of commercial standards is to establish for specific commodities, nationally recognized grades or consumer criteria and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard where practicable, in the production, dis-

tribution, or consumption of the article in question.

3. The Department's responsibility.—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. Announcement and promulgation.—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and

publication.

### ACCEPTORS

The organizations and individuals listed below have accepted these methods of measuring and measurements as their standard of practice in the production, distribution, and use of knit underwear (exclusive of rayon). Such endorsement does not signify that they may not find it necessary to deviate from the standard, nor that producers so listed guarantee all of their products in this field to conform with the requirements of this standard. Therefore, specific evidence of conformity should be obtained where required.

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Underwear Institute, New York, N. Y. Wholesale Dry Goods Institute, Inc., The, New York, N. Y.

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