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Standard Table of Body Measurements for Adult Female Misses Figure Type, Sizes 2–20[1]

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INTRODUCTION

This body measurement table was developed from body measurements used currently by apparel manufacturers and retail organizations and from anthropometric surveys conducted by the U.S. Army (Gordon, et al., 1988[2]) and by the U.S. Navy (Mellian, et al., 1990[3] and Robinette, 1990[4]). The measurements were derived originally from the PS 42-70 database,[5] which was developed from anthropometric research conducted in 1941 by O'Brien and Shelton.[6] It is important to note that the body measurements herein have been derived from designer experience and market observations and crosschecked with available databases in the attempt to identify current customer characteristics and changing proportions and not from new nationwide anthropometric research.

1. Scope

1.1 This table lists body measurements of the adult female misses figure type, sizes 2 through 20. Although these are body measurements, they can be used as a baseline in designing apparel for misses figures in this size range when considering such factors as fabric type, desired ease for body movement, styling, and fit.

1.2 The values stated in either acceptable SI units or inch-pound units shall be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently of the other, without combining values in any way.

2. Referenced Documents

2.1 *ASTM Standards:*

D 123 Terminology Relating to Textile Materials[7]

D 5219 Terminology Relating to a Body Dimension for Apparel Sizing[8]

2.2 *ISO Standards:*[9]

ISO 3635-1981 Size Designation of Clothes, Definition and Body Measurement Procedures

ISO 8559 Garment Construction and Anthropometric Surveys—Body Dimensions

3. Terminology

3.1 *Definitions*—For definitions relating to body dimensions, refer to Terminology D 5219. For definitions of other textile terms used in this table, refer to Terminology D 123.

4. Significance and Use

4.1 The use of the body measurement information given in Table 1 will enable manufacturers to develop patterns and garments that are consistent with the current anthopometric characteristics of the population of interest.

[1] This table is under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D13.55 on Body Measurement for Apparel Measurement.

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[2] Gordon, C., Churchill, T., Clauser, C., Bradtmiller, B., and McConville, J., *1988 Anthropometric Survey of the U.S. Army Natick R& D Center, Technical Report Natick/TR-89/044, 1988.*

[3] Mellian, S., Ervin, C., and Robinette, K., *Sizing Evaluation of Navy Women's Uniforms, Navy Clothing and Textile Research Facility Technical Report No. NCTRF 182*, 1990.

[4] Robinette, K., Mellian, S., and Ervin, C., *Development of Sizing Systems for Navy Women's Uniforms, Navy Clothing and Textile Research Facility Technical Report No. NCTRF 182*, 1990.

[5] U.S. Department of Commerce, *Voluntary Product Standard: Body Measurements for the Sizing of Women's Patterns and Apparel*, NIST Publication No. PS 42-70, Washington, DC, 1971.

[6] O'Brien, R., and Shelton, W. C., *Women's Measurements for Garment and Pattern Construction*, Miscellaneous Publication No. 454, U.S. Department of Agriculture, 1941.

[7] *Annual Book of ASTM Standards*, Vol 07.01.

[8] *Annual Book of ASTM Standards*, Vol 07.02.

[9] Available from American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036.

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TABLE 1 Standard Table of Body Measurements for Adult Female Misses Figure Type, Sizes 2–20

Size	2	4	6	8	10	12	14	16	18	20
Girth Measurements in in.										
Bust	32	33	34	35	36	37½	39	40½	42½	44½
Waist	24	25	26	27	28	29½	31	32½	34½	36½
High hip	31½	32½	33½	34½	35½	37	38½	40	42	44
Hip	34½	35½	36½	37½	38½	40	41½	43	45	47
Mid-neck	13	13¼	13½	13¾	14	14⅜	14¾	15⅛	15⅝	16⅛
Neck base	13½	13¾	14	14¼	14½	14⅞	15¼	15⅝	16⅛	16⅝
Armscye	14¼	14⅝	15	15⅜	15¾	16⅜	17	17⅝	18⅜	19⅛
Upper arm	10	10¼	10½	10¾	11	11⅜	11¾	12⅛	12¾	13⅜
Elbow	9⅜	9½	9⅝	9¾	9⅞	10⅛	10⅜	10⅝	11	11⅜
Wrist	5⅝	5¾	5⅞	6	6⅛	6¼	6⅜	6½	6⅝	6¾
Thigh, max	19½	20¼	21	21¾	22½	23½	24½	25½	26¾	28
Thigh, mid	18¼	18¾	19¼	19¾	20¼	21	21¾	22½	23½	24½
Knee	13	13⅜	13¾	14⅛	14½	15	15½	16	16½	17
Calf	12½	12⅞	13¼	13⅝	14	14½	15	15½	16	16½
Ankle	8⅜	8⅝	8⅞	9⅛	9⅜	9⅝	9⅞	10⅛	10⅜	10⅝
Vertical trunk	56	57½	59	60½	62	63½	65	66½	68	69½
Total crotch	25	25¾	26½	27¼	28	28¾	29½	30¼	31	31¾
Vertical Measurements in in.										
Stature	63½	64	64½	65	65½	66	66½	67	67½	68
Cervical height	54½	55	55½	56	56½	57	57½	58	58½	59
Waist height	39¼	39½	39¾	40	40¼	40½	40¾	41	41¼	41½
High hip height	35¼	35½	35¾	36	36¼	36½	36¾	37	37¼	37½
Hip height	31¼	31½	31¾	32	32¼	32½	32¾	33	33¼	33½
Crotch height	29½	29½	29½	29½	29½	29½	29½	29½	29½	29½
Knee height	17⅝	17¾	17⅞	18	18⅛	18¼	18⅜	18½	18⅝	18¾
Ankle height	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
Waist length (front)	13½	13¾	14	14¼	14½	14¾	15	15¼	15½	15¾
Waist length (back) (on Curve)	15½	15¾	16	16¼	16½	16¾	17	17¼	17½	17¾
True rise	9¾	10	10¼	10½	10¾	11	11¼	11½	11¾	12
Width and Length Measurements in in.										
Across shoulder	14⅜	14⅝	14⅞	15⅛	15⅜	15¾	16⅛	16½	17	17½
Cross-back width	13⅞	14⅛	14⅜	14⅝	14⅞	15¼	15⅝	16	16½	17
Cross-chest width	12⅞	13⅛	13⅜	13⅝	13⅞	14¼	14⅝	15	15½	16
Shoulder length	4 15/16	5	5 1/16	5⅛	5 3/16	5 5/16	5 7/16	5 9/16	5¾	5 15/16
Shoulder slope (degrees)	23	23	23	23	23	23	23	23	23	23
Arm length shoulder to wrist	22 15/16	23⅛	23 5/16	23½	23 11/16	23⅞	24 1/16	24¼	24 7/16	24⅝
Arm length shoulder to elbow	13¼	13⅜	13½	13⅝	13¾	13⅞	14	14⅛	14¼	14⅜
Arm length center back neck to wrist	30⅛	30 7/16	30¾	31 1/16	31⅜	31¾	32⅛	32½	32 15/16	33⅜
Bust point to bust point	7	7¼	7½	7¾	8	8¼	8½	8¾	9	9¼
Neck to bust point	9¼	9½	9¾	10	10¼	10⅝	11	11⅜	11⅞	12⅜
Scye depth	7⅛	7¼	7⅜	7½	7⅝	7¾	7⅞	8	8⅛	8¼
Girth Measurements in cm										
Size	2	4	6	8	10	12	14	16	18	20
Bust	81.3	83.8	86.4	89.0	91.4	95.2	99.1	102.9	107.9	113
Waist	61.0	63.5	66.0	68.5	71.1	74.9	78.7	82.6	87.6	92.7
High hip	80.0	82.5	85.1	87.6	90.2	94.0	97.7	101.6	106.7	111.8
Hip	86.4	90.2	92.7	95.2	97.8	101.6	105.4	109.2	114.3	119.4
Mid-neck	33.0	33.7	34.3	34.9	35.6	36.5	37.5	38.4	39.7	40.1
Neck base	34.3	34.9	35.6	36.2	36.8	37.8	38.7	39.7	40.9	42.2
Armscye	36.2	37.1	38.1	39.1	40.0	16.2	43.2	44.8	46.7	48.6
Upper arm	25.4	26.0	26.7	27.3	27.9	28.9	29.8	30.8	32.4	34.0
Elbow	23.8	24.1	24.4	24.8	25.1	25.7	26.4	27.0	27.9	28.9
Wrist	14.3	14.6	14.9	15.2	15.6	15.9	16.2	16.5	16.8	17.1
Thigh, max	49.5	51.4	53.3	55.2	57.2	59.7	62.2	64.5	67.9	71.1
Thigh, mid	46.4	47.6	48.9	50.2	51.4	53.3	55.2	57.1	59.7	62.2
Knee	33.0	34.0	34.9	35.9	36.8	38.1	39.4	40.6	41.9	43.2
Calf	31.8	32.7	33.6	34.6	35.6	36.8	38.1	39.4	40.6	41.9
Ankle	21.3	21.9	22.5	23.2	23.8	24.4	25.1	26.7	26.4	27.0
Vertical trunk	142.2	146.0	149.9	153.7	157.5	161.3	165.1	167.6	172.7	176.5
Total crotch	63.5	65.4	67.3	69.2	71.1	73.0	75.0	76.8	78.7	80.6
Vertical Measurements in cm										
Stature	161.3	162.6	163.8	165.1	166.4	167.6	169.0	170.2	171.5	172.7
Cervical height	138.4	139.7	141.7	142.2	143.5	144.8	146.1	147.3	148.6	149.9
Waist height	99.7	100.3	101.0	101.6	102.2	102.9	103.5	104.1	104.8	105.4
High hip height	89.5	90.2	90.8	91.4	92.1	92.7	93.3	94.0	94.6	95.2

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