



Designation: D6860/D6860M – 09

Standard Tables of Body Measurements for Boys, Sizes 6 to 24 Husky¹

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INTRODUCTION

These tables were developed from body measurements used currently by apparel manufacturers and retail organizations. The measurements were derived originally from the 1970 Voluntary Product Standard PS 36-70 by the U.S. Department of Commerce National Bureau of Standards.²

1. Scope

1.1 These tables list body measurements of boys, sizes 6 to 24 Husky. Although these are body measurements, they can be used as a baseline in designing apparel for boys and students in this size range when considering such factors as fabric type, ease for body movement, styling, and fit.

1.2 The husky body has a heavier build and higher body weight than other boys size ranges.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

2.2 *ISO Standard:*

ISO 3635 Size Designation of Clothes, Definitions, and Body Measurement Procedures³

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions relating to body dimensions, refer to Terminology **D5219**.

3.1.2 For definitions of other textile terms used in this standard, refer to Terminology **D123**.

4. Significance and Use

4.1 The use of the body measurement information in **Tables 1 and 2** will assist manufacturers in developing patterns and garments that are consistent with the current anthropometric characteristics of the population of interest. This practice should in turn reduce or minimize consumer confusion and dissatisfaction related to apparel sizing. (Also refer to ISO 3635 Size Designation Procedures.)

5. Apparatus

5.1 *Tape Measure*, dimensionally stable and approximately 15-mm (1/2-in.) wide and accurately graduated in mm (1/16-in.) increments.

5.2 *Plastic Goniometer*, to measure the degree of shoulder slope.

5.3 *Scale*, standard, calibrated body weight type.

6. Procedure

6.1 *General:*

6.1.1 For all measurements, subject is to be standing erect, arms down, without shoes and with feet approximately 15-cm (6-in.) apart unless otherwise specified. For **6.2.8**, **6.2.9**, and

¹ This test method is under the jurisdiction of ASTM Committee **D13** on Textiles and is the direct responsibility of Subcommittee **D13.55** on Body Measurement for Apparel Sizing.

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² U.S. Department of Commerce, *Voluntary Product Standard: Body Measurements for the Sizing of Boys' Apparel*, NIST Publication No. PS 36-70, Washington, DC.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.



TABLE 1 Husky Boys Sizes 6 to 24—Body Measurements, SI Units

Size	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Stature, cm	116.8	121.9	127.0	132.1	137.2	142.2	147.3	151.1	154.9	158.7	162.6	165.1	167.6	170.2	172.7	175.3	177.8	180.3	182.9
Body Weight, kg	25	27.7	30.4	33.1	36.7	39.9	43.1	46.7	50.8	54.9	59.0	62.1	64.9	68.0	70.8	73.9	77.1	80.7	84.4
Girth Measurements in Centimetres																			
Chest Girth	66.0	67.9	69.8	71.8	73.7	76.2	78.7	81.3	83.8	86.4	88.9	90.8	92.7	94.6	96.5	98.4	100.3	102.2	104.1
Waist Girth	62.2	63.5	64.8	66.0	67.3	68.6	69.8	71.1	73.7	74.9	76.2	77.5	78.7	80.0	81.3	82.5	83.8	85.1	86.4
Hip Girth	66.7	69.2	71.8	74.3	77.5	79.4	81.9	84.5	87.0	89.5	92.1	93.7	95.2	96.8	98.4	100.0	101.6	103.2	104.8
Neck Base Girth	30.5	31.1	31.7	32.4	33.0	33.7	34.3	34.9	35.9	36.8	37.8	38.7	39.7	40.6	41.6	42.5	43.5	44.4	45.4
Armscye Girth	29.2	30.2	31.1	32.1	33.3	34.6	35.9	37.1	38.4	39.7	40.6	41.6	42.5	43.5	44.4	45.4	46.4	47.3	48.3
Upper-Arm Girth	19.0	19.7	20.3	21.0	21.6	22.2	22.9	23.5	24.4	25.4	26.4	27.3	27.9	28.6	29.2	29.8	30.5	31.1	31.7
Elbow Girth	20.3	21.0	21.6	22.2	22.9	23.8	24.8	25.7	26.7	27.3	27.9	28.6	29.2	29.8	30.5	31.1	31.7	32.4	33.0
Thigh Girth	38.1	39.7	41.3	42.9	44.4	46.0	47.6	49.2	50.5	52.4	53.0	54.0	54.9	55.9	56.8	57.8	58.7	59.7	60.6
Knee Girth	26.4	27.3	28.3	29.2	30.2	31.1	32.1	33.0	34.0	34.6	35.2	35.9	36.5	37.1	37.8	38.4	39.1	39.7	40.3
Calf Girth	24.8	25.7	26.7	27.6	28.6	29.5	30.5	31.4	32.4	33.3	34.3	34.9	35.6	36.2	36.8	37.5	38.1	38.7	39.4
Total Vertical Trunk Length	110.5	114.3	118.1	121.9	125.7	129.5	133.3	137.2	141.0	144.8	148.6	152.4	154.9	157.5	160.0	162.6	165.1	167.6	170.2
Total Crotch Length	52.4	54.3	56.2	58.1	60.0	61.9	63.8	65.7	67.6	69.5	71.4	73.3	74.6	75.9	77.2	78.4	79.7	81.0	82.2
Vertical Measurements in Centimetres																			
Cervicale Height	96.5	101.3	105.7	110.4	115.3	120.0	124.8	128.3	131.8	135.9	138.7	141.0	143.2	145.7	148.0	150.5	152.7	155.3	157.5
Head and Neck Length	20.3	20.6	21.3	21.6	21.9	22.2	22.5	22.9	23.2	23.5	23.8	24.1	24.4	24.4	24.8	24.8	25.1	25.1	25.4
Center Back Waist Length	26.4	27.3	28.3	29.2	30.2	31.1	32.1	33.0	34.0	34.9	35.9	36.8	37.8	39.1	40.0	41.3	42.2	43.5	44.4
Center Front Waist Length	24.1	24.8	25.7	26.7	27.3	28.3	28.9	29.8	30.5	31.1	32.1	32.7	33.3	34.3	35.2	36.2	36.8	37.8	38.7
Scye Depth	13.3	13.7	14.3	14.6	15.2	15.6	16.2	16.5	17.1	17.5	18.1	18.4	19.0	19.4	20.0	20.3	21.0	21.3	21.9
Waist Height	71.1	74.9	78.7	82.5	86.4	90.2	94.0	96.5	99.1	101.6	104.1	105.4	106.7	107.9	109.2	110.5	111.8	113.0	114.3
Waist to Hip Height	14.9	15.2	15.6	15.9	16.5	16.8	17.5	17.8	18.4	18.7	19.4	19.7	20.3	20.6	21.3	21.6	22.2	22.5	23.2
Crotch Height	49.8	53.0	56.2	59.4	62.5	65.7	68.9	70.8	72.7	74.6	76.5	77.5	78.4	79.4	80.3	81.3	82.2	83.2	84.1
Knee Height	31.1	32.7	34.3	35.9	37.5	39.1	40.6	41.9	43.2	44.4	45.7	46.4	47.0	47.6	48.3	48.9	49.5	50.2	50.8
Ankle Height	6.0	6.0	6.0	6.3	6.3	6.3	6.3	6.7	6.7	6.7	6.7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Width and Length Measurements in Centimetres																			
Shoulder Length	7.9	8.3	8.6	8.9	9.2	9.5	9.8	10.2	10.5	10.8	11.1	11.4	11.7	12.1	12.4	12.7	13.0	13.3	13.7
Back Width	26.7	27.3	28.3	28.9	29.8	30.5	31.4	32.1	33.0	33.7	34.6	34.9	35.9	36.5	37.1	37.8	38.4	39.1	39.7
Front Chest Width	22.5	23.5	24.1	25.1	25.7	26.7	27.3	28.3	28.9	29.8	30.5	31.4	32.1	33.0	33.7	34.6	35.2	36.2	36.8
Arm Length	41.3	43.5	45.6	47.8	49.8	52.1	54.1	55.7	57.1	58.7	60.2	61.3	62.1	63.3	64.6	65.6	66.5	67.5	68.4
Shoulder and Arm Length	49.2	51.8	54.1	56.7	59.1	61.6	64.0	65.9	67.6	69.5	71.3	72.7	73.8	75.4	77.0	78.3	79.5	80.8	82.1
Cervicale to Wrist	54.6	57.1	59.7	62.2	64.8	67.3	69.8	71.8	73.7	75.6	77.5	78.7	80.0	81.6	83.2	84.5	85.7	87.0	88.3
Shoulder Slope (rad)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4