



Proposed 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 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.

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:

D 123 Terminology Relating to Textile Materials³

D 5219 Terminology Relating to Body Dimensions for Apparel Sizing⁴

2.2 ISO Standard:

ISO 3635 Size Designation of Clothes, Definitions, and Body Measurement Procedures⁵

3. Terminology

3.1 Definitions:

3.1.1 For definitions relating to body dimensions, refer to Terminology D 5219.

3.1.2 For definitions of other textile terms used in this standard, refer to Terminology D 123.

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 6.2.28 through 6.2.30, arm is to be bent at 1.57 rad (90°), and the hand placed on the hip.

6.1.2 Take measurements over regular undergarments normally worn.

6.1.3 Take all measurements from the same side of the body for consistency.

6.1.4 Refer to Terminology D 5219 for the location of all points to be measured.

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 *Annual Book of ASTM Standards*, Vol 07.01.

⁴ *Annual Book of ASTM Standards*, Vol 07.02.

⁵ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

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
Soye 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 to Hip 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

TABLE 2 Husky Boys Sizes 6 to 24—Body Measurements, Inch Pound Units

Size	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Stature, in.	46	48	50	52	54	56	58	59½	61	62½	64	65	66	67	68	69	70	71	72
Body Weight, lb	55	61	67	73	81	88	95	103	112	121	130	137	143	150	156	163	170	178	186
Girth Measurements in Inches																			
Chest Girth	26	26¾	27½	28¼	29	30	31	32	33	34	35	35¾	36½	37¼	38	38¾	39½	40¼	41
Waist Girth	24½	25	25½	26	26½	27	27½	28	29	29½	30	30½	31	31½	32	32½	33	33½	34
Hip Girth	26¼	27¼	28¼	29¼	30¼	31¼	32¼	33¼	34¼	35¼	36¼	36¾	37½	38½	38¾	39¾	40	40¾	41¼
Neck Base Girth	12	12¼	12½	12¾	13	13¼	13½	13¾	14¼	14½	14¾	15¼	15½	16	16¾	16¾	17½	17½	17¾
Upper-Arm Girth	11½	11¾	12¼	12¾	13¾	13¾	14½	14¾	15½	15¾	16	16¾	16¾	17½	17½	17¾	18¼	18¾	19
Armscye Girth	7½	7¾	8	8¼	8½	8¾	9	9¼	9½	10	10¾	10¾	11	11¼	11½	11¾	12	12¼	12½
Elbow Girth	8	8¼	8½	8¾	9	9¾	9¾	10¼	10½	10¾	11	11¼	11½	11¾	12	12¼	12½	12¾	13
Thigh Girth	15	15½	16¼	16¾	17½	18½	18¾	19¾	19¾	20¾	20¾	21¼	21¾	22	22¾	22¾	23¾	23¾	23¾
Knee Girth	10½	10¾	11½	11½	11¾	12¼	12¾	13	13¾	13¾	13¾	14¼	14¾	14¾	14¾	15¾	15¾	15¾	15¾
Calf Girth	9¼	10¼	10½	10¾	11¼	11¾	12	12¾	12¾	13¼	13¼	13¾	14	14¼	14¼	15¼	15¼	15¼	15¼
Total Vertical Trunk Length	43½	45	46½	48	49½	51	52½	54	55½	57	58½	60	61	62	63	64	65	66	67
Total Crotch Length	20½	21¾	22½	22½	23¾	24¾	25½	25½	26¾	27¾	28½	28½	29¾	29¾	30¾	30¾	31¾	31¾	32¾
Vertical Measurements in Inches																			
Cervicale Height	38	39¾	41½	43½	45¾	47¼	49½	50½	51¾	53½	54¾	55½	56¾	57¾	58¼	59¼	60½	61½	62
Head and Neck Length	8	8½	8¾	8¾	8¾	8¾	8¾	9	9½	9¼	9¾	9½	9½	9¾	9¾	9¾	9¾	9¾	10
Center Back Waist Length	10¾	10¾	11½	11½	11¾	12¼	12¾	13	13¾	13¾	14¼	14¼	14¾	15¾	15¾	16¼	16¾	17½	17½
Center Front Waist Length	9½	9¾	10½	10½	10¾	11½	11¾	11¾	12	12¼	12¾	12¾	13½	13½	13¾	14¼	14½	14¾	15¼
Scoye Depth	5¼	5¾	5¾	5¾	6	6½	6½	6½	6¾	6¾	7¼	7¼	7½	7¾	7¾	8	8¼	8¾	8¾
Waist Height	28	29½	31	32½	34	35½	37	38	39	40	41	41½	42	42½	43	43½	44	44½	45
Waist to Hip Height	5¾	6	6½	6¼	6½	6¾	6¾	7	7¼	7¾	7¾	7¾	8	8½	8¾	8½	8¾	8¾	9¾
Crotch Height	19¾	20¾	22½	23¾	24¾	25¾	27½	27½	28¾	29¾	30½	30½	30¾	31¼	31½	32	32¾	32¾	33¾
Knee Height	12¼	12¾	13½	14¼	14¾	15¾	16	16½	17	17½	18	18¼	18½	18¾	19	19¼	19½	19¾	20
Ankle Height	2¾	2¾	2¾	2½	2½	2½	2½	2½	2½	2½	2½	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
Width and Length Measurements in Inches																			
Shoulder Length	3½	3¼	3¾	3½	3¾	3¾	4	4	4¼	4¼	4¾	4½	4¾	4¾	4¾	5	5½	5¼	5½
Back Width	10½	10¾	11½	11¾	11¾	12	12¾	12¾	13	13¼	13¾	13¾	14½	14¾	14¾	14¾	15½	15½	15½
Front Chest Width	8½	9¼	9½	9¾	10½	10½	10¾	11½	11¾	11¾	12	12¾	12¾	13	13¼	13¾	13¾	14¼	14½
Arm Length	16¼	17½	17½	19	19¾	20½	21½	22	22½	23½	23½	24½	24¾	25	25¾	25¾	26¾	26¾	26¾
Shoulder and Arm Length	19¾	20¾	21½	22¾	23¾	24¼	25¾	26	26¾	27¾	28	28¾	29	29½	30¾	30¾	31½	31½	32¾
Cervicale to Wrist	21½	22½	23½	24¼	25½	26½	27½	28¼	29	29¾	30½	31	31½	32½	32¾	33¼	33¾	34¼	34¾
Shoulder Slope (degrees)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

6.2 Body Measurements:

6.2.1 *Stature*—Measure the vertical distance taken from the crown of the head to the floor with subject standing and without shoes.

6.2.2 *Body Weight*—Measure on a calibrated scale take with the subject in undergarments.

6.2.3 *Chest Girth*—Measure the horizontal circumference around the body under the arms and across the bust apex including the lower portion of the shoulder blades.

6.2.4 *Waist Girth*—Measure the minimum horizontal circumference around the body at waist height.

6.2.5 *Hip Girth*—Measure the maximum horizontal circumference around the body at hip height.

6.2.6 *Neck Base Girth*—Measure the circumference of the neck, over the cervicale at the back, and the top of the collar bone at the front.

6.2.7 *Armscye Girth*—Measure the circumference from the shoulder joint through the front-break point, the armpit, the back-break point, and back to the starting point with the arm down.

6.2.8 *Upper-Arm Girth*—Measure the maximum circumference of the arm midway between the elbow and shoulder joint.

6.2.9 *Elbow Girth*—Measure the maximum circumference of the elbow over the outer prominence of the elbow bone.

6.2.10 *Thigh Girth*—Measure the maximum horizontal circumference of the upper leg close to the crotch.

6.2.11 *Knee Girth*—Measure the maximum horizontal circumference of the knee over the knee cap with the leg straight.

6.2.12 *Calf Girth*—Measure the maximum horizontal circumference of the lower leg between the knee and the ankle.

6.2.13 *Total Vertical Trunk Length*—Measure the circumference from a point on the right shoulder midway between the neck base and shoulder joint, down the back, through the crotch, and up over the prominence of the right bust apex to the starting point avoiding constriction at the crotch.

6.2.14 *Total Crotch Length*—Measure the distance from waist level at the center front through the crotch and to the waist level at center back avoiding constriction at the crotch.

6.2.15 *Cervicale Height*—Measure the vertical distance from the cervicale to the floor.

6.2.16 *Head and Neck Length*—Measure the distance from the crown of the head to the cervicale (contour) taken with the head erect and the neck unbent.

6.2.17 *Center Back Waist Length*—Measure the distance from the cervicale to center back waist level along the spine.

6.2.18 *Center Front Waist Length*—Measure the distance from the center front neck base line to center front waist level.

6.2.19 *Scye Depth*—Measure the vertical distance from the cervicale to the back-break point level. of the body (contour) then vertically to the floor.

6.2.20 *Waist Height*—Measure the distance from the waist level to the hip girth level along the side of the body (contour) then vertically to the floor.

6.2.21 *Waist to Hip Height*—Measure the vertical distance from the hip girth level to the floor along the side of the body.

6.2.22 *Crotch Height*—Measure the vertical distance from the midpoint of the crotch to the floor.

6.2.23 *Knee Height*—Measure the vertical distance from the midpoint of the back of the knee (or crease) to the floor.

6.2.24 *Ankle Height*—Measure the vertical distance from the prominence of the outer ankle bone to the floor.

6.2.25 *Shoulder Length*—Measure the distance from the side of the neck base to the top of the shoulder joint.

6.2.26 *Back Width*—Measure the horizontal distance across the back from back-break point to back-break point over the shoulder blades.

6.2.27 *Front Chest Width*—Measure the horizontal distance across the chest from front-break point to front break point.

6.2.28 *Arm Length*—Measure the distance from the top of the shoulder joint along the outside of the arm over the elbow to the prominent wrist bone.

6.2.29 *Shoulder and Arm Length*—Measure the distance from the side of the neck base across the shoulder joint and along the outside of the arm over the elbow to the prominent wrist bone.

6.2.30 *Cervicale to Wrist*—Measure the distance from the cervicale over the top of the shoulder joint, along the outside of the arm over the elbow to the prominent wrist bone.

6.2.31 *Shoulder Slope*—Position the goniometer on the shoulder and move the baseline until it is parallel to the floor; identify on the dial the rad (degrees) of difference between the shoulder slant and the horizontal measure of the goniometer.

7. Keywords

7.1 apparel; body measurements; boys; garment sizes; husky; tables

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