



Designation: D6192 – 07

Standard Tables of Body Measurements for Girls, Sizes 2 to 20 (Reg & Slim) and Girls Plus¹

This standard is issued under the fixed designation D6192; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

These tables were developed from data published by the U.S. Department of Commerce. These data were based on original research conducted by the U.S. Department of Agriculture² in the 1930's. This standard takes into consideration Infant's growth patterns reflected in the 1980 charts for the National Center for Health Statistics and the 1977 Anthropometric Study of U.S. Infants and Children conducted by the University of Michigan and 2000 CDC Growth Charts for the United States.³ All sudden shifts of proportion have been eliminated so as to reflect the gradual growth and development of the infant. To verify the proposed body measurements, a limited sampling of Infant was measured and fitted with garments made as directed in these tables.

1. Scope

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

1.2 The maximum age for the Girl's chart is 12½ years old to the size 20.

1.3 The size table includes the range of toddler sizes, these values are for both girl's & boy's and will be included in the boy's standard as well.

1.4 These tables list body measurements for the complete range of Girls sizing. Slim subjects are of same stature (height), with a slimmer body, and lower body weight than regular subjects as illustrated by the measurement charts.

1.5 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.

1.6 *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:*⁴

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

2.2 *ISO Standard:*⁵

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

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 1-6** 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

¹ These tables are under the jurisdiction of ASTM Committee **D13** on Textiles and are 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 Girls' Apparel*, NIST Publication No. PS 54-172, Washington DC.

³ 2000 CDC Growth Charts for the United States: Methods and Development, National Center for Health Statistics, Vital Health Stat 11 (246), 2002.

⁴ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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

TABLE 1 Girls Sizes 2-20 Body Measurements, Inch-Pound Units

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3								Girls table maximum age based at 12 1/2 Years.							
4	Size	2	3	4	5	6	6X	7	8	10	12	14	16	18	20
5	Stature/Height, inches	35	36	41	44	46 1/2	48 1/2	50 1/2	52 1/2	55	58	61	62 1/2	62 1/2	62 1/2
6	Regular Body Weight Range, lb	28-30	30-33	34-38	39-43	42-48	47-53	52-58	61-68	71-87	85-95	99-110	109-120	118-131	128-142
7	Average Weight for Size	29	31 1/2	36	41	45	50	55	65	75	90	105	115	125	135
11	Birth Measurements, inches														
12	Chest/Bust	20 1/2	21	22	23	24	24 3/4	26	27	28 1/2	30	31 1/2	33 1/2	35 1/2	37 1/2
13	Waist	21	21 1/2	22	22 1/2	23	23 1/2	23 1/2	24 1/4	25	26	28	30	32	34
14	Hip/Seat	21	22	23	24	25	25 3/4	27 1/2	28 1/2	30	32	34	36	38	40
15	Head Circumference	20	20 1/4	20 1/2	20 3/4	21	21 1/4	21 1/4	21 1/2	21 3/4	22	22 1/2	22 1/2	23	23
16	Neck Base	10 1/8	10 3/8	10 3/4	11 1/8	11 1/2	11 5/8	11 7/8	12 1/8	12 5/8	13 1/8	13 5/8	14 1/8	14 5/8	15 1/8
17	Armhole Circumference	8 1/2	9 1/8	9 3/4	10 3/8	11	11 1/4	11 1/2	12	12 1/2	13 1/4	14	14 3/4	15 1/2	16 1/4
18	Upper Arm	6 1/8	6 3/8	6 5/8	6 7/8	7 1/8	7 3/8	7 5/8	7 3/4	8 1/8	8 1/2	9	9 1/2	10	10 1/2
19	Elbow	6 1/4	6 1/2	6 3/4	7	7 1/4	7 1/2	7 5/8	8	8 3/8	8 3/4	9 1/8	9 1/2	10 1/8	10 5/8
20	Wrist	4 1/2	4 5/8	4 3/4	4 7/8	5	5 1/8	5 3/8	5 1/2	5 3/4	5 7/8	6 1/8	6 3/8	6 3/8	6 3/8
21	Thigh	11 3/4	12 3/8	13	13 5/8	14 1/4	14 7/8	15 3/4	16 3/8	17 1/4	18 3/8	19 1/2	20 5/8	21 3/4	22 7/8
22	Knee	8 1/2	8 3/4	9 1/8	9 1/2	9 3/8	10 1/8	10 3/4	11 1/4	11 3/4	12 1/4	12 7/8	13 1/2	14 1/8	14 3/4
23	Calf	8 1/4	8 3/8	8 5/8	9	9 3/8	9 3/4	10 1/8	10 1/2	11	11 1/2	12 1/4	13	13 7/8	14 1/2
24	Ankle	5 1/2	5 7/8	6 1/4	6 5/8	7	7 1/8	7 3/8	7 5/8	7 7/8	8 1/8	8 3/8	8 5/8	8 7/8	9 1/8
25	Total Vertical Tunic Length	33 3/4	35 7/8	38 3/8	40 1/4	42 3/8	43	44 5/8	46 1/4	48 1/8	50 5/8	53 3/8	56	56 5/8	57 1/4
26	Cloth Length	14 3/4	15 5/8	17	18	19 1/8	19 1/4	20	20 7/8	21 7/8	23	24 1/8	25 3/4	26 1/8	26 1/2
27	Vertical Measurements, inches														
28	Cervicale Height	28 1/4	31	33 3/4	36 1/4	38 3/4	40 5/8	42 1/2	44 1/2	46 7/8	49 3/4	52 1/4	53 5/8	53 3/4	53 3/4
29	Cervicale to Crotch	14 1/4	15 3/8	16 5/8	17 1/2	18 1/2	18 3/4	19 3/8	20	20 7/8	22	23 1/4	24	24	24
30	Head and Neck Length	6 3/4	7	7 1/4	7 3/4	7 3/4	7 7/8	8	8	8 1/8	8 1/4	8 5/8	8 7/8	8 7/8	8 7/8
31	Center Back Waist Length	8 7/8	9 5/8	10 1/8	10 5/8	11 1/8	11 3/8	11 3/4	12 1/8	12 1/2	13 1/8	13 7/8	14 1/4	14 1/4	14 1/4
32	Center Front Waist Length	8	8 1/2	9	9 3/8	9 7/8	10	10 1/2	10 7/8	11 1/4	11 7/8	12 1/2	12 7/8	13	13
33	Sleeve Depth	3 1/4	3 5/8	3 7/8	4 1/4	4 1/2	4 1/2	4 5/8	4 3/4	5	5 1/2	5 1/2	5 3/4	6	6 1/4
34	Waist Height	19 1/2	21 5/8	23 7/8	26	28	29 5/8	31 1/8	32 7/8	34 3/4	36 7/8	38 7/8	39 7/8	39 7/8	39 7/8
35	Hip Height	16 1/8	17 7/8	19 1/2	21 1/4	22 3/4	24 3/8	25 5/8	27	28 5/8	30 1/8	31 3/4	32 3/8	32 3/8	32 3/8
36	Crotch Height (Inseam)	14	15 5/8	17 1/8	18 3/4	20 1/4	21 7/8	23 1/8	24 3/8	26	27 5/8	29 1/8	29 5/8	29 5/8	29 5/8
37	Rise Height	5 1/2	6	6 3/4	7 1/4	7 3/4	7 3/4	7 7/8	8 1/4	8 3/4	9 1/8	9 5/8	10 1/8	10 1/8	10 1/8
38	Knee Height	8 1/2	9 3/8	10 1/4	11 1/8	12	12 1/2	13 3/8	14	15 1/8	16 3/8	17 1/2	18 1/4	18 1/4	18 1/4
39	Ankle Height	2	2 1/8	2 1/4	2 3/8	2 1/2	2 1/2	2 1/2	2 5/8	2 5/8	2 5/8	2 5/8	2 3/4	2 3/4	2 3/4
40	Width and Length Measurements, inches														
41	Shoulder Length	2 7/8	3	3 1/8	3 1/4	3 3/8	3 3/8	3 3/8	3 3/8	3 5/8	3 3/4	3 7/8	4	4 1/8	4 3/8
42	Upper Back	8 7/8	9 1/8	9 3/8	9 3/4	10	10	10 1/4	10 5/8	11 1/8	11 3/4	12 3/8	12 7/8	13 1/4	13 3/4
43	Upper Front Chest	8 1/8	8 1/2	8 7/8	9 1/4	9 1/2	9 3/4	9 7/8	10 1/8	10 5/8	11	11 3/8	11 7/8	12 3/8	12 7/8
44	Across Back Shoulder	9 1/4	9 5/8	10	10 3/8	10 3/4	10 7/8	10 7/8	11 1/8	11 5/8	12 1/8	12 3/4	13 1/4	13 3/4	14 1/8
45	Arm Length	12 7/8	13 7/8	14 7/8	15 3/4	16 5/8	16 7/8	17 1/2	18 1/8	18 7/8	20 1/4	21 1/4	21 7/8	21 7/8	22 1/8
46	Cervicale to Wrist Length	17 1/2	18 5/8	19 3/4	20 7/8	21 7/8	22 1/4	23	23 3/4	24 5/8	26 1/4	27 5/8	28 3/8	28 3/4	29 1/8
47	Shoulder and Arm Length	15 3/4	16 7/8	18	19	19 7/8	20 3/8	20 7/8	21 5/8	22 1/2	24	25 1/8	25 7/8	26 1/8	26 1/2
48	Foot Length	5 1/4	5 5/8	6	6 1/2	6 7/8	7 3/8	7 3/4	7 7/8	8 1/8	8 1/4	8 5/8	9	9 1/8	9 1/8
49	Foot Width	2 1/4	2 3/8	2 1/2	2 5/8	2 5/8	2 7/8	2 7/8	3	3 1/8	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
50	Hand Length	3 7/8	4	4 1/4	4 4/8	5	5 1/4	5 1/4	5 3/8	5 1/2	5 3/4	6	6 1/4	6 1/4	6 1/4
51	Hand Length	N/A	N/A	N/A	N/A	N/A	N/A	19 3/8	19 3/4	20 3/4	22	23 3/8	24 1/2	25 1/2	26 1/4
52	Bust Point to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	5 3/8	5 7/8	6 1/4	6 3/4	7 1/4	7 1/4	7 1/4	7 3/8

TABLE 2 Girls Sizes 2-20 Body Measurements, SI Units

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3								Girls table maximum age based at 12 1/2 Years							
4	Size	2	3	4	5	6	6X	7	8	10	12	14	16	18	20
5	Stature / Height, inches	89.04	96.67	104.30	111.94	118.30	123.38	128.47	133.56	139.92	147.55	155.18	159.00	159.00	159.00
6	Regular Body Weight Range, kg	12.7-13.61	13.61-14.97	15.42-17.23	17.69-19.5	19.05-21.77	21.32-24.04	23.58-26.3	27.66-30.84	32.2-39.46	38.55-43.08	44.9-49.89	49.43-54.42	53.51-59.41	58.05-64.4
7	Average Weight for Size, kg	12.49	13.57	15.51	17.66	19.39	21.54	23.70	28.00	32.31	38.78	45.24	49.55	53.85	58.16
11	Length Measurements, cm														
12	Chest / Bust	52.15	53.42	55.97	58.51	61.06	62.96	66.14	68.69	72.50	76.32	80.14	85.22	90.31	95.40
13	Waist	53.42	54.70	55.97	57.24	58.51	59.78	59.78	61.06	63.60	66.14	71.23	76.32	81.41	86.50
14	Hip / Seat	53.42	55.97	58.51	61.06	63.60	65.51	69.96	72.50	76.32	81.41	86.50	91.58	96.67	101.76
15	Head Circumference	50.88	51.52	52.15	52.79	53.42	54.06	54.06	54.70	55.33	55.97	55.97	57.24	57.24	58.51
16	Neck Base	25.76	26.39	27.35	28.30	29.26	29.57	30.21	30.85	32.12	33.39	34.66	35.93	37.21	38.48
17	Armhole Circumference	21.62	23.21	24.80	26.39	27.98	28.62	29.26	30.53	31.80	33.71	35.62	37.52	39.43	41.34
18	Upper Arm	15.58	16.22	16.85	17.49	18.13	18.76	19.40	19.72	20.67	21.62	22.90	24.17	25.44	26.71
19	Elbow	15.90	16.54	17.17	17.81	18.44	19.08	19.40	20.35	21.31	22.26	23.21	24.17	25.76	27.03
20	Wrist	11.45	11.77	12.08	12.40	12.72	13.05	13.67	13.99	14.63	14.95	15.58	16.22	16.22	16.22
21	Thigh	29.89	31.48	33.07	34.66	36.25	37.84	40.07	41.66	43.88	46.75	49.61	52.47	55.33	58.19
22	Knee	21.62	22.26	23.21	24.17	25.12	25.76	27.35	28.62	29.89	31.16	32.75	34.34	35.93	37.52
23	Calf	20.99	21.31	21.94	22.90	23.85	24.80	25.76	26.71	27.98	29.26	31.16	33.07	35.30	36.89
24	Ankle	13.99	14.95	15.90	16.85	17.81	18.13	18.76	19.40	20.03	20.67	21.31	21.94	22.58	23.21
25	Total Vertical Tunic Length	85.86	91.27	97.63	102.40	107.80	109.39	113.53	117.66	122.43	128.79	135.79	142.46	144.05	145.64
26	Cloth Length	37.52	39.75	43.25	45.63	48.65	48.97	50.88	53.11	55.65	58.51	61.37	65.51	66.46	67.42
27	Vertical Measurements, cm														
28	Cervical Height	71.87	78.86	85.86	92.22	98.58	103.35	108.12	113.21	119.25	126.56	132.92	136.42	136.74	136.74
29	Cervical to Crotch	36.25	39.11	42.29	44.52	47.06	47.70	49.29	50.88	53.11	55.97	59.15	61.06	61.06	61.06
30	Head and Neck Length	17.17	17.81	18.44	19.72	19.72	20.03	20.35	20.35	20.67	20.99	21.94	22.58	22.58	22.58
31	Center Back Waist Length	22.58	24.49	25.76	27.03	28.30	28.94	29.89	30.85	31.80	33.39	35.30	36.25	36.25	36.25
32	Center Front Waist Length	20.35	21.62	22.90	23.85	25.12	25.44	26.71	27.67	28.62	30.21	31.80	32.75	32.75	33.07
33	Sleeve Depth	8.27	9.22	9.86	10.81	11.45	11.45	11.77	12.08	12.72	13.99	13.99	14.63	15.26	15.90
34	Waist Height	49.61	55.01	60.74	66.14	71.23	75.37	79.18	83.63	88.40	93.81	98.90	101.44	101.44	101.44
35	Hip Height	41.02	45.47	49.61	54.06	57.88	62.01	65.19	68.69	72.82	76.64	80.77	82.36	82.36	82.36
36	Cloth Height (Inseam)	35.62	39.75	43.57	47.70	51.52	55.65	58.83	62.01	66.25	70.28	74.09	75.37	75.37	75.37
37	Rise Height	13.99	15.26	17.17	18.44	19.72	19.72	20.03	20.99	22.26	23.21	24.49	25.76	25.76	25.76
38	Knee Height	21.62	23.85	26.08	28.30	30.53	31.80	34.03	35.62	38.48	41.66	44.52	46.43	46.43	46.43
39	Ankle Height	5.09	5.41	5.72	6.04	6.36	6.36	6.36	6.68	6.68	6.68	6.68	7.00	7.00	7.00
40	Wrist and Length Measurements, cm														
41	Shoulder Length	7.31	7.63	7.95	8.27	8.59	8.59	8.59	8.59	9.22	9.54	9.86	10.02	10.49	11.13
42	Upper Back	22.58	23.21	23.85	24.80	25.44	25.44	26.08	27.03	28.30	29.89	31.48	32.75	33.71	34.98
43	Upper Front Chest	20.67	21.62	22.58	23.53	24.17	24.80	25.12	25.76	27.03	28.09	28.94	30.21	31.48	32.75
44	Across Back Shoulder	23.53	24.49	25.44	26.39	27.35	27.67	27.67	28.30	29.57	30.85	32.44	33.71	34.98	35.93
45	Arm Length	32.75	35.30	37.84	40.07	42.29	42.93	44.52	46.11	48.02	51.52	54.06	55.65	55.65	56.29
46	Cervical to Wrist Length	44.52	47.36	50.24	53.11	55.65	56.60	58.51	60.42	62.65	66.78	70.28	72.19	73.14	74.09
47	Shoulder and Arm Length	40.07	42.93	45.79	48.34	50.56	51.83	53.11	55.01	57.24	61.06	0.00	65.83	66.46	67.42
48	Foot Length	13.36	14.31	15.26	16.54	17.49	18.76	19.72	20.03	20.67	20.99	21.94	22.90	23.21	23.21
49	Foot Width	5.72	6.04	6.36	6.68	6.68	7.31	7.31	7.63	7.95	8.90	8.90	8.90	8.90	8.98
50	Hand Length	9.77	10.13	10.84	11.45	12.75	13.33	13.36	13.67	13.99	14.63	15.26	15.90	15.90	15.90
51	Heel Length	N/A	N/A	N/A	N/A	N/A	N/A	49.29	50.24	52.79	55.97	59.47	62.33	64.87	66.78
52	Bust Point to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	13.67	14.95	15.90	17.17	18.44	18.44	18.44	18.76