



Standard Tables of Body Measurements for Children, Sizes 2 to 6x/7¹

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INTRODUCTION

These tables are 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 1930s. These tables take into consideration children's growth patterns reflected in the 1980 charts for the National Center for Health Statistics³ and the 1977 Anthropometric Study of U.S. Infants and Children conducted by the University of Michigan.⁴ All sudden shifts of proportion have been eliminated so as to reflect the gradual growth and development of the child. A limited sampling of children was measured and fitted with garments made as directed in these tables to verify the proposed body measurements.

1. Scope

1.1 These tables list body measurements of children, sizes 2 to 6x/7. Although these measurements are body measurements, they can be used as a baseline in designing apparel for children in this age range when taking into account such factors as fabric type, ease for body movement, styling, and fit.

1.2 The values stated in either acceptable metric units or other 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.

1.3 *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 Materials⁵

D 5219 Terminology Relating to Body Dimensions for Apparel Sizing⁶

2.2 ISO Standard:

ISO Size Designation of Clothes, Definitions, and Body Measurement Procedures⁷

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 these tables, 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 Size Designation Procedures.)

5. Apparatus

5.1 *Tape Measure*, dimensionally stable and approximately 15-mm ($\frac{1}{2}$ -in.) wide and accurately graduated in mm ($\frac{1}{16}$ -in.) increments.

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

6. Procedure

6.1 General:

6.1.1 For all vertical measures subject to be standing erect without shoes and with feet approximately 15-cm (6-in.) apart.

6.1.2 For all horizontal measurements subject to be held in a vertical position.

⁷ Available from American National Standards Institute, 11 West 42nd St., 13th Floor, New York, NY 10036.

¹ These tables are under the jurisdiction of ASTM Committee D-13 on Textiles and are the direct responsibility of Subcommittee D13.55 on Body Measurement for Apparel Sizing.

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² O'Brien, R., et al, *Body Measurement to American Boys and Girls for Garment and Pattern Construction*, Miscellaneous Publication No. 366, U.S. Department of Agriculture, July 1941.

³ Available from National Center for Health Statistics.

⁴ Snyder, L., *Anthropometry of Infants, Children, and Youth to Age 18*, University of Michigan, May 1977.

⁵ *Annual Book of ASTM Standards*, Vol 07.01.

⁶ *Annual Book of ASTM Standards*, Vol 07.02.