

U.S. Department of Commerce (DoC)  
National Institute of Standards and Technology-NIST  
(formerly National Bureau of Standards-NBS)  
Office of Standards Services

**Body Measurements for the Sizing of Apparel**

The commercial standard (CS) and products standards (PS) on the body measurements for the sizing of apparel for the following: Infants, Babies, Toddlers and Children (CS151-50); Boys (PS36-70); Young Men (PS45-71); Girls (PS54-72); and Women (PS42-70) maintained by NBS under the Voluntary Product Standards (VPS) Program were **withdrawn**. This was in accordance with the procedures announced on January 20, 1983 by the U.S. Department of Commerce (DoC) to withdraw these standards after sponsorship was assumed by the private industry sector.

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The American Society for Testing and Materials (ASTM) is developing standards on sizing of apparel. In October 1982, ASTM established Subcommittee D13.55 on Body Measurement and Apparel Sizes within Technical Committee D13 on Textiles to take over the work previously handled by the U.S. Department of Commerce, National Bureau of Standards (NBS).

For assistance on related or additional standards (see page 2) under the jurisdiction of ASTM Subcommittee D13.55 - Body Measurement for Apparel Sizing and/or copies, please contact:

American Society for Testing and Materials (renamed **ASTM International**)  
100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959, USA  
Telephone: (610) 832-9500; Information Center (610) 832-9550  
ASTM Fax: (610) 832-9555  
Internet: <http://www.astm.org> (click on Standards, Technical Committees, etc.)

**Technical Committee ASTM D13 on Textiles**  
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**Technical information and questions, contact:**

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U.S. Natick Clothing and Textile Research Facility  
43 Boyd Street, Watertown, Massachusetts 02172, USA  
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\*\*\*\*\*

The following organization may provide additional information sources on the subject, contact:  
American Apparel Manufacturers Association and the Footwear Industries of America (now the **American Apparel and Footwear Association-AAFA**), 1601 North Kent Street, Suite 1200, Arlington, Virginia 22209, USA Telephone: (800) 520-2262 (ext. 1034-Publications Dept.); (703) 524-1864 (ext.1034-Publications Dept.); Fax: (703) 522-6741.

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The activity on body-size standards began in the late 1940's under the Department of Commerce with NBS serving as a coordinator and point of contact for copies of the documents. The VPS body-size standards were developed by committees made up of textile manufacturers, designers, and retailers, and based on measurements obtained from the Department of Agriculture. The Mail Order Association provided the support for the body-size standards.

Listed below are various standards under the jurisdiction of ASTM Subcommittee D13.55:

D4910-99, Standard Tables of Body Measurements for Infants, Sizes 0 to 24

D5219-99, Standard Terminology Relating to Body Dimensions for Apparel Sizing

D5585-95 (2001), Standard Table of Body Measurements for Adult Female Misses Figure Type, Sizes 2-20

D5586-95, Standard Tables of Body Measurements for Women Aged 55 and Older (All Figure Types)

D5826-00, Standard Tables of Body Measurements for Children, Sizes 2 to 6x7

D6192-98, Standard Tables of Body Measurements for Girls, Sizes 7 to 16

D6240-98, Standard Tables of Body Measurements for Men Sizes Thirty-Four to Sixty (34 to 60) Regular

D6458-99, Standard Tables of Body Measurements for Boys, Sizes 8 to 14 Slim and 8 to 20 Regular

Department of Defense– DOD:

HDBK-743A-1991, Anthropometry of U.S. Military Personnel (Metric)

MIL-STD-984A-1994, Size Labeling for Women's Uniform Clothing, Provisions for

**International Market Research (IMR) Reports**

IMR reports are original studies of growth export markets for selected U.S. industries. They are prepared on the spot, in the country of research, by market consultants under contract to the U.S. Department of Commerce or by the U.S. Foreign Commercial Service. The reports reflect the opinions and view of the surveyed country's end users, importers, agents, distributors and government officials. Fees for such reports are between \$50 and \$100, depending on length of the report.

Stephen B. Strauss,  
Deputy Assistant Secretary for Trade Information and Analysis.

(FR Doc. 83-1565 Filed 1-19-83; 8:45 am)  
BILLING CODE 3510-25-M

**National Bureau of Standards****Status Report on Voluntary Product Standards**

**AGENCY:** National Bureau of Standards, Commerce.

**ACTION:** Development, maintenance, and withdrawal of certain voluntary standards.

**SUPPLEMENTARY INFORMATION:** On August 30, 1982, the Department of Commerce (Department) announced in the *Federal Register* (47 FR 38171) the status of 28 standards classified as voluntary standards. The announcement was made in accordance with the revised "Procedures for the Development of Voluntary Product Standards" (15 CFR Part 10).

The August 30, 1982, notice specified the retention of specific standards for fixed periods of time. The updated status of all existing voluntary standards is indicated below.

The following Voluntary Product Standards will continue to be maintained by the Department:

**Standard and Proponent Organization**

- PS 1-74 "Construction and Industrial Plywood", American Plywood Association  
PS 20-70 "American Softwood Lumber Standard", American Lumber Standards Committee  
PS 73-77 "Carbonated Soft Drink Bottles", Glass Packaging Institute

The Department has agreed to sponsor the development of a Voluntary Product Standard for the production of carbonated soft drinks in glass bottles, which was requested by the National Soft Drink Association. It has been determined that this standards project meets the six requirements for

Department sponsorship stated in § 10.0(b) of the mentioned Procedures.

The following standards will be retained by the Department until January 20, 1984, to permit the orderly transfer of sponsorship of such standards from the Department to the identified organizations.

- PS 56-73 "Structural Glued Laminated Timber", American Institute of Timber Construction  
PS 67-76 "Marking of Gold Filled and Rolled Gold Plate Articles Other Than Watchcases", Jewelers Vigilance Committee  
PS 68-76 "Marking of Articles Made of Silver in Combination with Gold", Jewelers Vigilance Committee  
PS 69-76 "Marking of Articles Made Wholly or in Part of Platinum" Jewelers Vigilance Committee  
PS 70-76 "Marking of Articles Made of Karat Gold", Jewelers Vigilance Committee  
PS 71-76 "Marking of Jewelry and Novelties of Silver", Jewelers Vigilance Committee  
PS 72-76 "Toy Safety", American Society for Testing and Materials

\* In accordance with § 10.13 of the mentioned Procedures, notice is hereby given of the withdrawal of the following standards. This action is taken in furtherance of the Department's announced intentions as set forth in the August 30, 1982, notice to withdraw these standards. The effective date for the withdrawal of the standards will be March 21, 1983. This withdrawal action terminates the authority to refer to these standards as voluntary standards developed under the Department of Commerce procedures. The organizations listed below have assumed responsibility for the standards.

- PS 36-70 "Body Measurements for the Sizing of Boys' Apparel", American Society for Testing and Materials  
PS 42-70 "Body Measurements for the Sizing of Women's Patterns and Apparel", American Society for Testing and Materials  
PS 45-71 "Body Measurements for the Sizing of Apparel for Young Men (Students)", American Society for Testing and Materials  
PS 51-71 "Hardwood and Decorative Plywood", Hardwood Plywood Manufacturers Association  
PS 54-72 "Body Measurements for the Sizing of Girls' Apparel", American Society for Testing and Materials  
PS 63-75 "Latex Foam Mattresses for Hospitals", American Society for Testing and Materials  
PS 66-75 "Safety Requirements for Home Playground Equipment", American Society for Testing and Materials  
CS 151-50 "Body Measurements for the Sizing of Apparel for Infants, Babies, Toddlers and Children (for the Knit

Underwear Industry)", American Society for Testing and Materials

**FOR FURTHER INFORMATION CONTACT:** Karl G. Newell, Jr., Office of Product Standards Policy, National Bureau of Standards, Washington, D.C. 20234, Telephone: (301) 921-2368.

Dated: January 6, 1983.

Ernest Ambler,

Director.

(FR Doc. 83-827 Filed 1-19-83; 8:45 am).

BILLING CODE 3510-13-M

**Office of the Secretary****President's Private Sector Survey on Cost Control; Open Meeting**

**AGENCY:** Office of the Secretary, Commerce.

**ACTION:** Notice of Public meeting of the Executive Committee of the President's Private Sector Survey on Cost Control.

**SUMMARY:** The President's Private Sector Survey on Cost Control was established by the President pursuant to Executive Order 12369 of June 30, 1982, and extended by Executive Order 12398 of December 31, 1982. The Executive Committee of the Survey is chartered by the Department of Commerce as a public advisory committee in accord with the Federal Advisory Committee Act.

The purpose of the President's Private Sector Survey on Cost Control is to conduct a private sector survey on cost control in the Federal Government and to advise the President, the Secretary of Commerce, and other Executive agency heads with respect to improving management and reducing costs.

**Time and Place**

February 4, 1983 at 11:00 a.m. The meeting will take place at the U.S. Department of Commerce Auditorium, First Floor, Herbert C. Hoover Building, 14th Street and Constitution Avenue, N.W., Washington, D.C. 20230.

**Agenda**

(1) Receive a status report on activities of the President's Private Sector Survey.

(2) Establish a Subcommittee of the Executive Committee. The purposes of the Subcommittee are: (i) To review the recommendations submitted, including task force reports and public comments, and (ii) determine which recommendations should be made to the President and Departments and Agencies.

**SUPPLEMENTARY INFORMATION:** To accomplish the President's objective that the survey be funded, to the

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A UNITED STATES  
DEPARTMENT OF  
COMMERCE  
PUBLICATION



# NBS Voluntary Product Standard

# WITHDRAWN

 PS 42-70

# WITHDRAWN

## Body Measurements for the Sizing of Women's Patterns and Apparel

A Voluntary Standard  
Developed by Producers,  
Distributors, and Users  
With the Cooperation of the  
National Bureau of Standards

U.S.  
DEPARTMENT  
OF  
COMMERCE  
National  
Bureau  
of Standards

UNITED STATES DEPARTMENT OF COMMERCE • Maurice H. Stans, *Secretary*

NATIONAL BUREAU OF STANDARDS • Lewis M. Branscomb, *Director*

## Voluntary Product Standard

PS 42-70

### Body Measurements for the Sizing of Women's Patterns and Apparel

Technical Standards Coordinator: C. W. Devereux

#### Abstract

This Voluntary Product Standard covers standard size classifications, size designations, and body measurements to aid in the consistency of sizing of women's apparel and, by doing so, provides a means for the consumer to identify her body type and size for proper fit. This standard also covers applications of the system, definitions, methods of measurement, adjustments to compensate for the effect of foundation garments, spanning charts, and a recommended method of identification. The measurements given in this standard are body, not garment, measurements.

**Key words:** Apparel, women's; body measurements, women's; classifications, women's size; grading charts, women's size; pattern size, women's; size designations, women's; span charts, women's sizing.

Nat. Bur. Stand. (U.S.), Prod. Stand. 42-70, 29 pages (Sept. 1971)  
CODEN: XNPSA

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (Order by SD Catalog No. C13.20/42-70. Price .40.)  
Stock Number 0303-0901

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# VOLUNTARY PRODUCT STANDARDS

*Voluntary Product Standards* are standards developed under procedures established by the Department of Commerce (15 CFR Part 10, as amended, May 28, 1970). The standards may include (1) dimensional requirements for standard sizes and types of various products, (2) technical requirements, and (3) methods of testing, grading, and marking. The objective of a *Voluntary Product Standard* is to establish requirements which are in accordance with the principal demands of the industry and, at the same time, are not contrary to the public interest.

## Development of a VOLUNTARY PRODUCT STANDARD

The Office of Engineering Standards Services of the National Bureau of Standards has been assigned by the Department of Commerce the responsibility to work closely with scientific and trade associations and organizations, business firms, testing laboratories, and other appropriate groups to develop *Voluntary Product Standards*. The Bureau has the following role in the development process: It (1) provides editorial assistance in the preparation of the standard; (2) supplies such assistance and review as is required to assure the technical soundness of the standard; (3) acts as an unbiased coordinator in the development of the standard; (4) sees that the standard is representative of the views of producers, distributors, and users or consumers; (5) seeks satisfactory adjustment of valid points of disagreement; (6) determines the compliance with the criteria established in the Department's procedures cited above; and (7) publishes the standard.

Industry customarily (1) initiates and participates in the development of a standard; (2) provides technical counsel on a standard; and (3) promotes the use of, and support for, the standard. (A group interested in developing a *Voluntary Product Standard* may submit a written request to the Office of Engineering Standards Services, National Bureau of Standards, Washington, D.C. 20234.)

A draft of a proposed standard is developed in consultation with interested trade groups. Subsequently, a Standard Review Committee is established to review the proposed standard. The committee, appropriately balanced, includes qualified representatives of producers, distributors, and users or consumers of the product being standardized. When the committee approves a proposal, copies are distributed for industry consideration and acceptance. When the acceptances show general industry agreement, and when there is no substantive objection deemed valid by the Bureau, the Bureau announces approval of the *Voluntary Product Standard* and proceeds with its publication.

## Use of a VOLUNTARY PRODUCT STANDARD

The adoption and use of a *Voluntary Product Standard* is completely voluntary. *Voluntary Product Standards* have been used most effectively in conjunction with legal documents such as sales contracts, purchase orders, and building codes. When a standard is made part of such a document, compliance with the standard is enforceable by the purchaser or the seller along with other provisions of the document.

*Voluntary Product Standards* are useful and helpful to purchasers, manufacturers, and distributors. Purchasers may order products that comply with *Voluntary Product Standards* and determine for themselves that their requirements are met. Manufacturers and distributors may refer to the standards in sales catalogs, advertising, invoices, and labels on their product. Commercial inspection and testing programs may also be employed, together with grade labels and certificates assuring compliance, to promote even greater public confidence. Such assurance of compliance promotes better understanding between purchasers and sellers.

## Body Measurements for the Sizing of Women's Patterns and Apparel

Effective December 22, 1970 (See section 8.)

(This Voluntary Product Standard, initiated by the Mail Order Association of America, has been developed under the *Procedures for the Development of Voluntary Product Standards*, published by the U.S. Department of Commerce, as a revision of CS 215-58, *Body Measurements for the Sizing of Women's Patterns and Apparel*. See Section 9, *History of Project*, for further information.)

### 1. PURPOSE

The purpose of this Voluntary Product Standard is to provide standard classifications, size designations, and body measurements for consistent sizing of women's ready-to-wear apparel. This information is provided for the guidance of those engaged in producing or preparing specifications for patterns and ready-to-wear garments. It is also intended to provide the consumer with a means of identifying her body type and size from the wide range of body types covered, and to enable her to be fitted properly by a single size regardless of price, type of apparel, or manufacturer of the garment.

### 2. SCOPE AND CLASSIFICATION

2.1. **Scope**—This Voluntary Product Standard includes standard classifications, size designations, and body measurements. This Standard also covers the application of the sizing system, definitions and methods of measurement, and recommended methods for identifying products that are sized in accordance with this Standard. The measurements given in this Standard are *body, not garment, measurements*.

2.1.1. **Span chart**—As a reference to facilitate locating a particular body type and size, a span chart using key measurements is provided in appendix A.

2.1.2. **Grading**—A guide to grading has been included in appendix B. The difference between similar body measurements of consecutive sizes within a classification is called the grade.

2.1.3. **Foundation garment adjustments**—Adjustments to compensate for the effect of foundation garments, for converting tables 1 through 7 to "nude" measurements, are given in appendix C.

2.2. **Classification**—This Standard includes body measurements for four classifications of women as follows: Juniors', Misses', Women's, and Half-sizes (shorter women). Tables 1 through 7 give values for 45 body measurements for the four classifications and their related body types as follows:

- a. Juniors' petite sizes ranging from 3P to 15P—Table 1

- b. Juniors' sizes ranging from 3 to 17—Table 2
- c. Misses' petite sizes ranging from 8P to 18P—Table 3
- d. Misses' sizes ranging from 6 to 22—Table 4
- e. Misses' tall sizes ranging from 10T to 22T—Table 5
- f. Women's sizes ranging from 34 to 52—Table 6
- g. Half-sizes ranging from 12-1/2 to 26-1/2—Table 7

### 3. APPLICATION

The measurements given herein are applicable to:

- a. Sizing or grading garment patterns.
- b. Preparing specifications for ready-to-wear apparel and model forms.
- c. Coordinating body measurements of women, as defined, with size designations for ready-to-wear apparel—underwear and outerwear.
- d. Studying marketing aspects of ready-to-wear sizing.

### 4. DEFINITIONS

Definitions of the principal body landmarks shown in figure 1 are as follows:

- a. Crown—Top of head.
- b. Cervicale—The prominence on the seventh or lowest cervical vertebra at the back of the neck which becomes more prominent when the head is bent forward. (Cervicale height measurements are taken, however, only when the head is in an erect position.)
- c. Waist—The natural waistline, 3/8 inch (for petites), 1/2 inch (for regulars), and 5/8 inch (for tall) below the lower edge of the lower floating rib, located at the side of the body in a line directly below the center of the armpit.
- d. Abdominal extension (high hip)—The level of greatest protuberance of the abdomen as viewed from the side, figure 1.
- e. Hip—The outer bony prominence of the upper end of the thigh bone (the femur), figure 1.



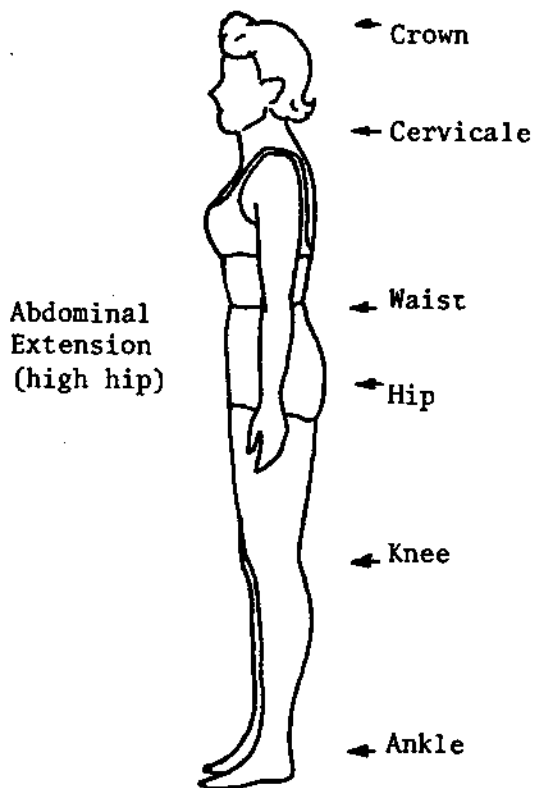


FIGURE 1. General location of principal body landmarks

- f. Knee—The inner bony prominence of the upper end of the tibia, the larger of the two bones of the leg extending from knee to ankle, figure 1.
- g. Ankle—The inner bony prominence of the lower end of the tibia, figure 1.

## 5. MEASUREMENT

5.1. **General**—All measurements should be taken while the subject is in the standing position, except for the sitting spread girth measurement. The principal girth measurements and related arcs are to be taken over foundation garments, i.e., a girdle and a brassiere. Measurements given in tables 1 through 7 have been adjusted to compensate for the effect of foundation garments. Figure 2 illustrates the type of foundation garments to be worn. Vertical measurements should be taken without shoes. Weight should be taken without clothes.

### 5.2. Girth measurements—

- a. Bust girth—The girth is measured horizontally at the level of the fullest part of bust, figure 2.
- b. Waist girth—The girth is measured horizontally at waist level, figure 2.

- c. Hip girth—The girth is measured horizontally at hip level, figure 2.
- d. Neck base girth—Measured around the neck touching the cervicale at the back, and the upper borders of the collar bone at the front, and following the curve that would be made by a fine-linked chain passing over these landmarks (A through C to A, figures 3 and 4).
- e. Mid neck—Measured at the average height at which a button type collar would be fastened. This measurement is taken below the projection in front of the neck formed by the largest cartilage of the larynx, approximately 1 inch above the neck base girth.
- f. Armscye girth—Measured from a point at the armhole edge of the shoulder, midway between the acromion and the highest prominence at the lateral end of the collar bone, and through the underarm midpoint, D around the arm to D, figures 3 and 4.
- g. Abdominal extension (high hip) girth—The girth is measured horizontally at abdominal extension (high hip) level, figure 2.
- h. Sitting spread girth—Measured around both legs at the most lateral extension of the

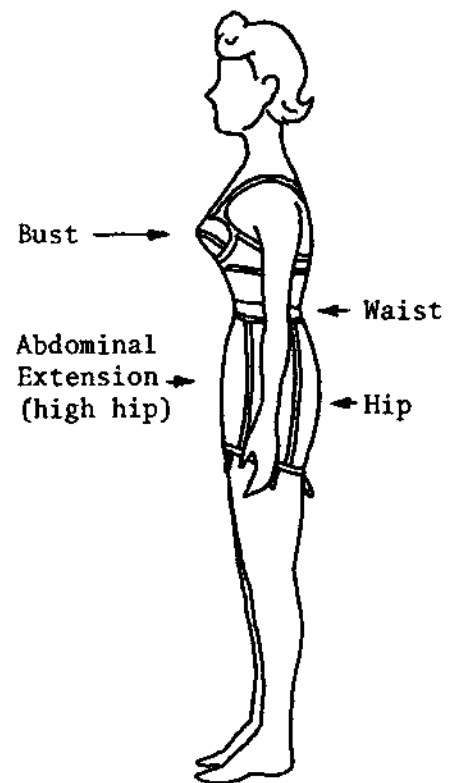


FIGURE 2. Location of important girth and arc measurements that are to be taken horizontally.

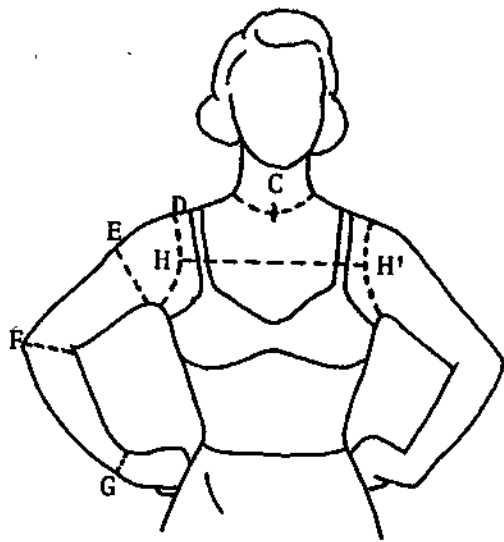


FIGURE 3. Cross-chest width; neck base, armscye, upper arm, elbow, and wrist girths.

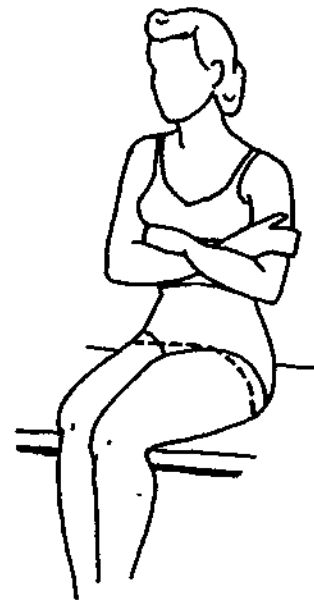


FIGURE 5. Sitting spread girth.

upper thighs, when the subject is seated, figure 5.

- i. Thigh girth, maximum—Measured horizontally around the upper part of the leg, close up to the crotch, figure 7.
- j. Thigh girth, mid—Measured horizontally around the leg midway between the hip and the knee, figure 7.
- k. Knee girth—Measured horizontally around the leg over the knee cap, figure 7.

- l. Calf girth—Measured horizontally around that portion of the leg below the knee at the level of maximum girth, figure 7.
- m. Ankle girth—Measured horizontally around the leg over the greatest prominence of the ankle, figure 7.
- n. Upper arm girth—With the arm down, measured around the arm with the upper edge of the tape measure at the level of the bottom of the armscye, E around the arm, figure 3.
- o. Elbow girth—With the forearm at right angle to the upper arm, measured diagonally around the arm over the lower prominence on the armscye, F around the arm figure 3.

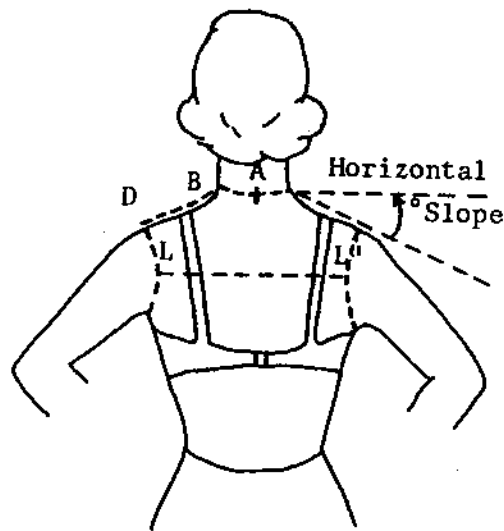


FIGURE 4. Cross-back width; neck base and armscye girths; shoulder length; and slope.

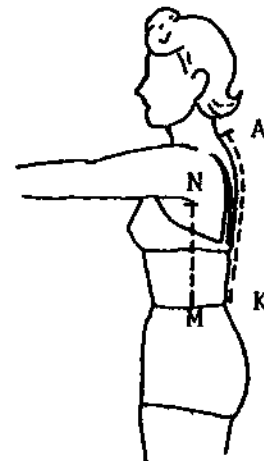


FIGURE 6. Back waist length and armscye to waist.

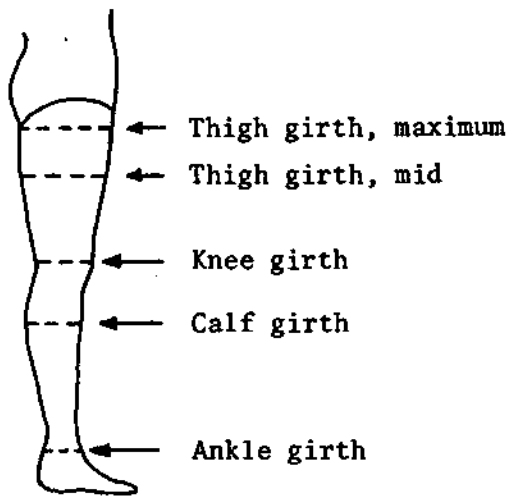


FIGURE 7. Girths of the leg.

- p. Wrist girth—Measured around the arm over the prominence at the lower end of the ulna, the inner of the two bones of the forearm. G around the arm, figure 3.
- q. Vertical trunk girth—Measured from a point on the shoulder, midway between the neck and the normal armhole line, as defined by armscye girth, through the crotch. The measurements should be taken without

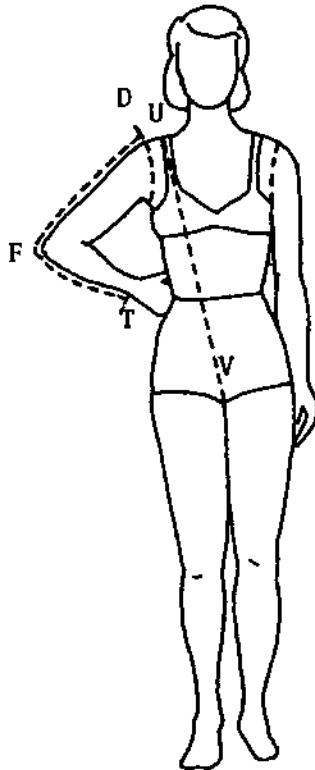


FIGURE 8. Arm lengths, shoulder to elbow and to wrist; and vertical trunk girth.

constriction at crotch, U through V to U, figure 8.

5.3. Arc measurements—All arc measurements are taken from the imaginary vertical line extending from the mid-underarm point to the hip bone along one side of the body to a similar line on the other side.

- a. Bust, front—The arc is the front portion of the bust girth.
- b. Waist, front—The arc is the front portion of the waist girth.
- c. Abdominal extension (high hip), front—The arc is the front portion of the abdominal extension (high hip) girth.
- d. Hip arc, back—The arc is the back portion of the hip girth.

#### 5.4. Vertical measurements—

- a. Stature—Measured from crown to soles of feet.
- b. Cervicale height—Measured from cervicale to soles of feet.
- c. Waist height—Measured from waist to soles of feet. The waist height establishes the waist level around the body.
- d. Abdominal extension (high hip) height—Measured from abdominal extension (high hip) level to soles of feet.
- e. Hip height—Measured from hip to soles of feet.
- f. Crotch height—Measured from base of trunk, as defined by vertical trunk girth to soles of feet.
- g. Knee height—Measured from knee to soles of feet.
- h. Ankle height—Measured from ankle to soles of feet.

#### 5.5. Width and length measurements—

- a. Cross-back width—Measured across the back from armscye to armscye approximately at the same level as the cross-chest width, L to L', figure 4.
- b. Cross-chest width—Measured across the front of the chest from armscye to armscye midway between shoulder and bottom of armscye. H to H', figure 3.
- c. Bust point to bust point—Measured from bust point to bust point horizontally, J to J', figure 9.
- d. Neck to bust point—Measured from intersection of shoulder and neck base lines to bust point, B to J, figure 10.
- e. Scye depth—Measured along the spine from the cervicale to a point level with the mid-underarm point, A to P, figure 11.
- f. Armscye to waist—Measured from the mid-underarm point downward along the side

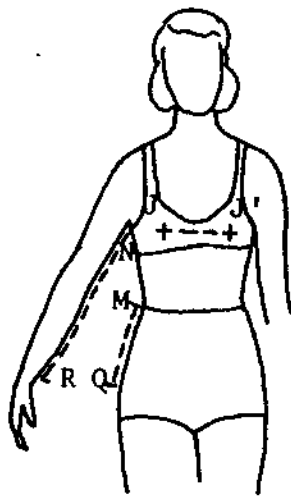


FIGURE 9. Bust point to bust point across; underarm length, armscye to wrist; and waist to hips.

- of the body to the waist level, N to M, figure 6.
- g. Waist to hips—Measured along the side of the body from the waist level to the hip point directly below. Because of the curvature of the body, this will usually be greater than the vertical difference between the waist and hip height, M to Q, figure 9.
- h. Shoulder length—Measured along a line corresponding to the customary shoulder line of a garment from the neck base to the armscye line, B to D, figure 4.
- i. Shoulder slope—Slope (measured in degrees) of the shoulder with respect to the horizontal, figure 4.
- j. Arm length, shoulder to wrist—Measured from the intersection of the armscye and shoulder lines, along the outside (posterior surface) of the right arm, over the elbow to the greatest prominence on the outside of the wrist, D through F to T, figure 8.

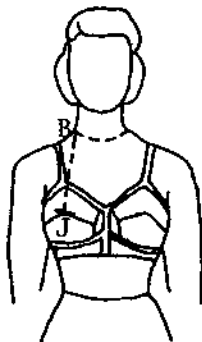


FIGURE 10. Neck to bust length.

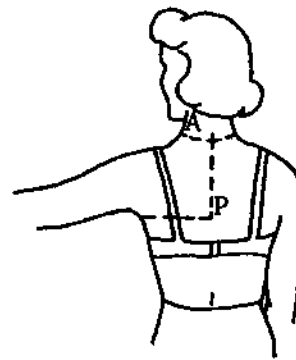


FIGURE 11. Scye depth.

- k. Arm length, shoulder to elbow—The upper portion of the previous measurement taken to the prominence of the elbow, D to F, figure 8.
- l. Underarm length—With the arm down, measured from the point on the inside of the upper arm corresponding to the underarm mid-point on the trunk to the mid-point on the inside of the wrist in line with the greatest prominence, N to R, figure 9.
- m. Crotch length, total—Measured from waist level at the front, through the crotch to the waist level at the back without constriction, O through crotch to K, figure 12.
- n. Cervicale to center front at waist—Measured from cervicale at center back, along the neck line to shoulder line and then down the figure to the waist level at the center front, A through B to O, figure 13.
- o. Waist length, front—Measured at center front from neck base girth line to waist level, C to O, figure 13.

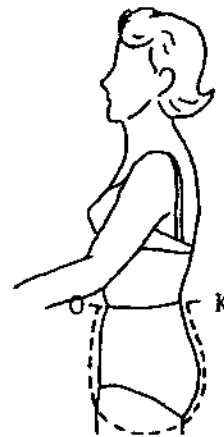


FIGURE 12. Total crotch length.

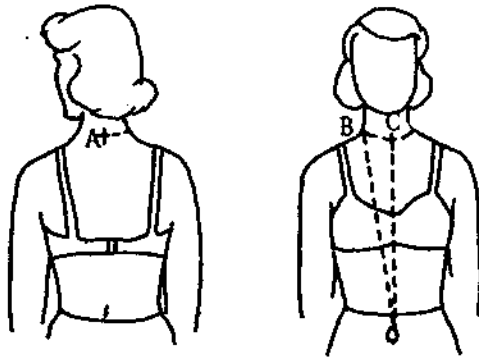


FIGURE 13. *Front waist length and cervicale to center front at waist.*

p. Waist length, back—Measured along the spine from cervicale to waist level, A to K, figure 6.

#### 6. TABLES OF SIZE RANGES AND CORRESPONDING MEASUREMENTS<sup>1</sup>

Size ranges and corresponding adjusted "body" measurements are given in tables 1 through 7.

<sup>1</sup>Weights were determined according to relationships established by a survey of United States Air Force women. Height (H), Bust (B), Waist (W), and Hip (H<sub>p</sub>), in the relationship of  $\text{Weight} = 1.66 H + 1.77 B + 1.72 W + 3.35 H_p - 212.35$ , were shown to be reliable predictors of weight within the limitations of the sample survey. The weights may not be entirely accurate for all women, but are offered as further guides in defining size.

TABLE 1. Junior Petite<sup>1</sup>

Size	3P	5P	7P	9P	11P	13P	15P
GIRTH MEASUREMENTS (inches)							
Bust	30	31	32	33	34½	36	37½
Waist	20½	21½	22½	23½	25	26½	28
Hip	32	33	34	35	36½	38	39½
Mid neck	12¾	13	13¼	13½	13¾	14¼	14¾
Armscye	13	13¾	13¾	14¼	14¾	15¾	16
Abdominal extension (high hip)	27¾	28¾	29¾	30¾	32¾	33¾	35¼
Sitting spread	32	33	34	35	36½	38	39½
Thigh, maximum	17½	18¼	19	19¾	20¾	21¾	22¾
Thigh, mid	15¾	16¾	16¾	17¾	18¼	19¾	20
Knee	11½	11¾	12¼	12¾	13¾	13¾	14¼
Calf	11	11¾	11¾	12¾	12¾	13¾	13¾
Ankle	7¾	8	8¼	8½	8¾	9	9¼
Upper arm	9¾	9¾	9¾	9¾	10¼	10¾	11
Elbow	8¾	9	9¼	9¼	9½	9¾	10
Wrist	5¾	5¼	5¾	5½	5¾	5¾	5¾
Vertical trunk	50½	52	53½	55	56½	58	59½
ARC MEASUREMENTS (inches)							
Bust, front	16¼	17	17¾	18¼	19½	20½	21½
Waist, front	10¾	11¾	12	12¾	13½	14¾	15¼
Abdominal, front (high hip)	14¾	15¾	16	16¾	17¼	18¾	19¼
Hip, back	16¼	16¾	17	17¾	18	18¾	19¼
VERTICAL MEASUREMENTS (inches)							
Stature (total height)	58	58½	59	59½	60	60½	61
Cervicale height	49	49½	50	50½	51	51½	52
Waist height	35¾	36	36¾	36¾	37½	37½	37¾
Abdominal extension height (high hip)	33¾	33¾	33¾	34¼	34¾	34¾	34¾
Hip height	29¼	29¾	29½	29¾	29¾	29¾	30
Crotch height	26¾	26½	26¾	26¾	26¾	27	27¾
Knee height	15¾	15¾	16	16¾	16¼	16¾	16¾
Ankle height	2¾	2¾	2¾	2¾	2¾	2¾	2¾
WIDTH AND LENGTH MEASUREMENTS (inches)							
Cross-back width	11¾	11¾	12¼	12¾	12¾	13¾	13¾
Cross-chest width	11¾	11¾	11¾	12	12¼	12½	12¾
Bust point to bust point	6¾	6¾	6¾	7½	7¾	7¾	7¾
Neck to bust point	7¾	8	8¼	8½	8¾	9¼	9¾
Sceye depth	6½	6¾	6¾	6¾	7	7½	7¼
Armscye to waist	7¼	7¾	7½	7¾	7¾	7¾	8
Waist to hips	6¾	7¾	7¾	7¾	7¾	8¾	8¾
Shoulder length	4	4½	4½	4½	4¼	4½	4¾
Shoulder slope (degrees)	23	23	23	23	23	23	23
Arm length, shoulder to wrist	20¾	21½	21¼	21½	21¾	21¾	22
Arm length, shoulder to elbow	11¾	12	12¼	12¼	12¾	12½	12¾
Underarm length	15¾	15½	15½	15½	15¾	15¾	15¾
Crotch length, total	23½	24¼	25	25¾	26½	27¼	28
Cervicale to center front at waist	17¾	17¾	17¾	18¼	18½	18¾	19¼
Waist length, front	11½	11¾	12	12¼	12½	12¾	13
Waist length, back	13½	13¾	14	14¼	14½	14¾	15
WEIGHTS (pounds)							
Weight, approximate	79	87	95	103	114	125	136

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

TABLE 2. Juniors<sup>1</sup>

Size	3	5	7	9	11	13	15	17
<b>GIRTH MEASUREMENTS (inches)</b>								
Bust	30	31	32	33	34½	36	37½	39
Waist	20½	21½	22½	23½	25	26½	28	29½
Hip	32	33	34	35	36½	38	39½	41
Mid neck	12¾	13	13¼	13½	13¾	14¼	14½	15
Armseye	13½	13½	13¾	14¼	14¾	15½	16½	16¾
Abdominal extension (high hip)	27%	28%	29%	30%	32%	33%	35½	36%
Sitting spread	32	33	34	35	36½	38	39½	41
Thigh, maximum	17½	18¼	19	19¾	20%	21¼	22%	23%
Thigh, mid	15¾	16%	16¾	17%	18¼	19½	20	20¾
Knee	11½	11¾	12¼	12%	13¼	13%	14½	14%
Calf	11	11%	11¾	12%	12%	13%	13%	14%
Ankle	7¾	8	8¼	8½	8%	9	9¼	9½
Upper arm	9%	9%	9%	9%	10%	10%	11	11%
Elbow	8%	9	9½	9¼	9½	9¾	10	10¼
Wrist	5½	5¼	5%	5½	5%	5%	5%	6
Vertical trunk	52½	54	55½	57	58½	60	61½	63
<b>ARC MEASUREMENTS (inches)</b>								
Bust, front	16¼	17	17¾	18½	19½	20½	21½	22½
Waist, front	10%	11%	12	12%	13½	14%	15¼	16¾
Abdominal, front (high hip)	14%	15%	16	16%	17½	18%	19¼	20½
Hip, back	16¼	16%	17	17%	18	18%	19¼	19%
<b>VERTICAL MEASUREMENTS (inches)</b>								
Stature (total height)	61½	62	62½	63	63½	64	64½	65
Cervicale height	52½	53	53½	54	54½	55	55½	56
Waist height	38%	38½	38¾	39¼	39%	40	40%	40%
Abdominal extension height (high hip)	35%	35%	35%	36%	36%	36%	36%	37½
Hip height	31¼	31%	31½	31%	31¾	31%	32	32½
Crotch height	28¼	28%	28½	28%	28%	28%	29	29½
Knee height	16%	16%	17	17%	17¼	17%	17½	17%
Ankle height	2%	2%	2%	2%	2%	2%	2%	2%
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>								
Cross-back width	11%	11%	12%	12%	12%	13%	13%	13%
Cross-chest width	11%	11%	11%	12	12¼	12½	12%	13
Bust point to bust point	6%	6%	6%	7%	7%	7%	7%	8%
Neck to bust point	7%	8%	8%	8%	9	9%	9%	10%
Scye depth	6%	6%	7	7%	7¼	7%	7½	7%
Armseye to waist	8	8%	8¼	8%	8½	8%	8%	8%
Waist to hips	7%	7%	7%	8%	8%	8%	8%	9%
Shoulder length	4	4½	4%	4½	4¼	4½	4%	4½
Shoulder slope (degrees)	23	23	23	23	23	23	23	23
Arm length, shoulder to wrist	22%	22%	22%	22½	23%	23%	23½	23½
Arm length, shoulder to elbow	12%	12%	13	13%	13¼	13%	13½	13%
Underarm length	16%	16½	16½	16%	16%	16½	16%	16½
Crotch length, total	24½	25¼	26	26%	27½	28¼	29	29%
Cervicale to center front at waist	18%	18%	18%	18%	19¼	19%	20	20%
Waist length, front	12¼	12½	12%	13	13¼	13½	13%	14
Waist length, back	14¼	14½	14%	15	15¼	15%	15%	16
<b>WEIGHTS (pounds)</b>								
Weight, approximate	85	93	101	108	119	130	142	153

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

TABLE 3. Misses Petite<sup>1</sup>

Size	8P	10P	12P	14P	16P	18P
<b>GIRTH MEASUREMENTS (inches)</b>						
Bust	32½	33½	35	36½	38	40
Waist	23½	24½	26	27½	29	31
Hip	34½	35½	37	38½	40	42
Mid neck	13¾	13¾	14	14¾	14¾	15¼
Armhole	14¾	14½	15¾	15¾	16¾	17¾
Abdominal extension (high hip)	30¾	31¾	33¾	34¾	36¾	38¾
Sitting spread	34½	35½	37	38½	40	42
Thigh, maximum	19½	20¼	21¼	22¼	23¼	24¼
Thigh, mid	17½	18	18¾	19½	20¼	21¼
Knee	12¾	12¾	13¼	13¾	14¼	14¾
Calf	11¾	12¼	12¾	13¼	13¾	14¼
Ankle	8¾	8¾	8¾	9¾	9¾	9¾
Upper arm	9¾	10¾	10½	10¾	11¼	11¾
Elbow	9¾	9¾	9¾	10	10¼	10¾
Wrist	5¾	5½	5¾	5¾	5¾	6
Vertical trunk	54	55½	57	58½	60	61½
<b>ARC MEASUREMENTS (inches)</b>						
Bust, front	18½	19¼	20¼	21¼	22¼	23¾
Waist, front	12½	13¾	14	14¾	15¾	17
Abdominal, front (high hip)	16½	17¾	18	18¾	19¾	21
Hip, back	17¼	17¾	18¼	18¾	19¾	20¼
<b>VERTICAL MEASUREMENTS (inches)</b>						
Stature (total height)	59½	60	60½	61	61½	62
Cervical height	50½	51	51½	52	52½	53
Waist height	36¾	37	37¾	37¾	38¾	38¾
Abdominal extension height (high hip)	34	34¼	34½	34¾	35	35¼
Hip height	29¾	29¾	29¾	30	30¾	30¾
Crotch height	26¾	26¾	26¾	27	27¾	27¾
Knee height	16	16¾	16¼	16¾	16½	16¾
Ankle height	2¾	2¾	2¾	2¾	2¾	2¾
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>						
Cross-back width	12¼	12½	12¾	13¼	13¾	14¾
Cross-chest width	12	12¾	12¾	12¾	12¾	13¼
Bust point to bust point	7	7¼	7½	7¾	8	8¼
Neck to bust point	8¾	8¾	9¼	9¾	10	10¾
Scye depth	6¾	7	7½	7¼	7¾	7¾
Armhole to waist	7¾	7¾	7¾	8	8¾	8¾
Waist to hips	7½	7¾	8	8¼	8½	8¾
Shoulder length	4¼	4¾	4¾	4¾	4½	4¾
Shoulder slope (degrees)	23	23	23	23	23	23
Arm length, shoulder to wrist	21¾	21¾	21¾	21¾	22½	22½
Arm length, shoulder to elbow	12¼	12¾	12½	12¾	12¾	12¾
Underarm length	15¾	15¾	15¾	15¾	15¾	15¾
Crotch length, total	25¾	26¾	27¼	27¾	28¾	29¾
Cervical to center front at waist	18¾	18¾	18¾	19¾	19½	20
Waist length, front	12¼	12½	12¾	13	13¼	13½
Waist length, back	14¼	14½	14¾	15	15¼	15½
<b>WEIGHTS (pounds)</b>						
Weight, approximate	100	108	118	130	141	155

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.



TABLE 4. Misses<sup>1</sup>

Size	6	8	10	12	14	16	18	20	22
<b>GIRTH MEASUREMENTS (inches)</b>									
Bust	31½	32½	33½	35	36½	38	40	42	44
Waist	22½	23½	24½	26	27½	29	31	33	35
Hip	33½	34½	35½	37	38½	40	42	44	46
Mid neck	13½	13%	13%	14	14%	14%	15¼	15%	16¼
Armscye	13%	14¼	14%	15¼	15%	16½	17¼	18	18%
Abdominal extension (high hip)	29%	30%	31%	33¼	34%	36%	38%	40%	42½
Sitting spread	33½	34½	35½	37	38½	40	42	44	46
Thigh, maximum	18%	19½	20¼	21¼	22¼	23¼	24½	25¼	27
Thigh, mid	17	17½	18	18%	19½	20¼	21¼	22¼	23¼
Knee	12	12%	12%	13¼	13%	14¼	14%	15¼	15%
Calf	11½	11%	12¼	12%	13¼	13%	14¼	14%	15¼
Ankle	8½	8%	8%	8%	9%	9%	9%	9%	10%
Upper arm	9%	9%	10%	10½	10%	11¼	11%	12%	13%
Elbow	9¼	9%	9½	9%	10	10¼	10%	11	11%
Wrist	5¼	5%	5½	5%	5%	5%	6	6%	6¼
Vertical trunk	55½	57	58½	60	61½	63	64½	66	67½
<b>ARC MEASUREMENTS (inches)</b>									
Bust, front	17%	18½	19¼	20¼	21¼	22¼	23%	25	26%
Waist, front	11%	12½	13%	14	14%	15%	17	18¼	19¼
Abdominal, front (high hip)	15%	16½	17%	18	18%	19%	21	22¼	23½
Hip, back	16%	17¼	17%	18¼	18%	19½	20¼	21	21%
<b>VERTICAL MEASUREMENTS (inches)</b>									
Stature (total height)	62½	63	63½	64	64½	65	65½	66	66½
Cervicale height	53½	54	54½	55	55½	56	56½	57	57½
Waist height	38%	39½	39½	39%	40¼	40%	41	41%	41%
Abdominal extension height (high hip)	35%	36	36¼	36½	36%	37	37¼	37½	37%
Hip height	31½	31%	31%	31%	32	32¼	32¼	32%	32½
Crotch height	28%	28½	28%	28%	28%	29	29%	29¼	29%
Knee height	16%	17	17%	17¼	17%	17½	17%	17%	17%
Ankle height	2%	2%	2%	2%	2%	2%	2%	2%	2%
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>									
Cross-back width	12	12¼	12½	12%	13¼	13%	14¼	14%	15%
Cross-chest width	11%	12	12½	12%	12%	12%	13¼	13%	14
Bust point to bust point	6%	7	7¼	7½	7%	8	8¼	8½	8%
Neck to bust point	8½	8%	9	9%	9%	10¼	10%	11½	11%
Sleeve depth	7	7½	7¼	7%	7½	7%	7¼	7%	8
Armscye to waist	8	8½	8¼	8%	8½	8%	8%	8%	9
Waist to hips	7%	8	8¼	8½	8%	9	9¼	9½	9%
Shoulder length	4½	4¼	4½	4%	4½	4½	4½	4%	4½
Shoulder slope (degrees)	23	23	23	23	23	23	23	23	23
Arm length, shoulder to wrist	22½	22%	23½	23¼	23½	23%	23½	24	24½
Arm length, shoulder to elbow	13	13¼	13¼	13%	13½	13%	13%	13%	14
Underarm length	16½	16%	16½	16%	16½	16%	16½	17	17½
Crotch length, total	26%	27¼	27%	28%	29%	30%	30%	31%	32%
Cervicale to center front at waist	18%	18%	19%	19½	19%	20¼	20%	21¼	21%
Waist length, front	12%	13	13¼	13½	13%	14	14¼	14½	14%
Waist length, back	14%	15	15¼	15½	15%	16	16¼	16½	16%
<b>WEIGHTS (pounds)</b>									
Weight, approximate	98	106	113	125	136	147	161	176	190

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

TABLE 5. Misses Tall<sup>1</sup>

Size	10T	12T	14T	16T	18T	20T	22T
GIRTH MEASUREMENTS (inches)							
Bust	33½	35	36½	38	40	42	44
Waist	24½	26	27½	29	31	33	35
Hip	35½	37	38½	40	42	44	46
Mid neck	13½	14	14½	14¾	15¼	15½	16¼
Armhole	14¾	15½	16	16¾	17½	18¼	18¾
Abdominal extension (high hip)	31½	33½	34¾	36¾	38½	40¼	42¼
Sitting spread	35½	37	38½	40	42	44	46
Thigh, maximum	20¼	21¼	22¼	23¼	24½	25¾	27
Thigh, mid	18	18¾	19½	20¼	21¼	22¼	23¼
Knee	12¾	13¼	13¾	14¼	14¾	15¼	15¾
Calf	12¼	12¾	13¼	13¾	14¼	14¾	15¼
Ankle	8¾	8¾	9¼	9¾	9¾	9¾	10¼
Upper arm	10¾	10½	10¾	11¼	11¾	12½	13¼
Elbow	9½	9¾	10	10¼	10¾	11	11¾
Wrist	5½	5¾	5¾	5¾	6	6¼	6¼
Vertical trunk	61½	63	64½	66	67½	69	70½
ARC MEASUREMENTS (inches)							
Bust, front	19¼	20¼	21¼	22¼	23½	25	26¾
Waist, front	13½	14	14¾	15¾	17	18¼	19¼
Abdominal, front (high hip)	17¾	18	18¾	19¾	21	22¼	23½
Hip, back	17¾	18¼	18¾	19½	20¼	21	21¾
VERTICAL MEASUREMENTS (inches)							
Stature (total height)	67½	68	68½	69	69½	70	70½
Cervical height	58½	59	59½	60	60½	61	61½
Waist height	42½	42¾	43¼	43¾	44	44¾	44¾
Abdominal extension height (high hip)	39¼	39½	39¾	40	40¼	40½	40¾
Hip height	34¾	34¼	34¾	34½	34¾	34¾	34¾
Crotch height	30¾	31	31¾	31¼	31¾	31½	31¾
Knee height	18¾	18¾	19	19¼	19¼	19¾	19¾
Ankle height	8	8	8	8	8	8	8
WIDTH AND LENGTH MEASUREMENTS (inches)							
Cross-back width	12½	12¾	13¼	13¾	14¼	14¾	15¾
Cross-chest width	12½	12¾	12¾	12¾	13¼	13¾	14
Bust point to bust point	7¼	7½	7¾	8	8¼	8½	8¾
Neck to bust point	9¼	9¾	10	10¾	10¾	11¾	11¾
Scye depth	7½	7¾	7¾	7¾	8	8¾	8¾
Armhole to waist	8¾	8¾	9	9¼	9¼	9¾	9¾
Waist to hips	8¾	9¾	9¾	9¾	9¾	10¼	10¾
Shoulder length	4½	4¾	4¾	4½	4¾	4¾	4¾
Shoulder slope (degrees)	23	23	23	23	23	23	23
Arm length, shoulder to wrist	24½	24¾	24½	25	25½	25¾	25¾
Arm length, shoulder to elbow	14	14¾	14¼	14¾	14½	14¾	14¾
Underarm length	17¾	17½	17¾	17½	17¾	17½	18
Crotch length, total	29¾	30¾	31¾	31¾	32¾	33¾	34¾
Cervical to center front at waist	19¾	20¾	20½	20¾	21¾	21¾	22¾
Waist length, front	14	14¼	14½	14¾	15	15¼	15¾
Waist length, back	16	16¼	16½	16¾	17	17¼	17¾
WEIGHTS (pounds)							
Weight, approximate	120	131	142	153	168	182	197

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

TABLE 6. Women's<sup>1</sup>

Size	34	36	38	40	42	44	46	48	50	52
<b>GIRTH MEASUREMENTS (inches)</b>										
Bust	38	40	42	44	46	48	50	52	54	56
Waist	30	32	34	36½	39	41½	44	46½	49	51½
Hip	39	41	43	45	47	49	51	53	55	57
Mid neck	14½	15	15½	16	16½	17	17½	18	18½	19
Armscye	16½	17½	18½	19	19½	20½	21½	22	22½	23½
Abdominal extension (high hip)	37	39	41	43½	45½	47½	50	52½	54½	56½
Sitting spread	39½	41½	43½	45½	47½	49½	51½	53½	55½	57½
Thigh, maximum	22½	23½	25	26½	27½	28½	30	31½	32½	33½
Thigh, mid	19½	20½	21½	22½	23½	24½	25½	26½	27½	28½
Knee	13½	14½	14½	15½	15½	16½	16½	17½	17½	18½
Calf	13½	13½	14½	14½	15½	15½	16½	16½	17½	17½
Ankle	8½	9½	9½	9½	9½	10½	10½	10½	10½	11½
Upper arm	12	12½	13½	13½	14½	15½	15½	16½	17	17½
Elbow	10½	10½	11	11½	11½	12½	12½	12½	13½	13½
Wrist	5½	5½	6	6½	6½	6½	6½	6½	6½	6½
Vertical trunk	62½	64	65½	67	68½	69½	71	72½	73½	74½
<b>ARC MEASUREMENTS (inches)</b>										
Bust, front	21½	23½	24½	26	27½	28½	30½	31½	32½	34½
Waist, front	16½	18	19½	20½	22½	23½	25½	26½	28½	29½
Abdominal, front (high hip)	19½	21	22½	23½	25½	26½	28½	29½	31½	32½
Hip, back	19½	20½	21	21½	22½	23½	24	24½	25½	26½
<b>VERTICAL MEASUREMENTS (inches)</b>										
Stature (total height)	64½	65	65½	66	66½	66½	66½	66½	66½	66½
Cervicale height	55½	56	56½	57	57½	57½	57½	57½	57½	57½
Waist height	40½	40½	41½	41½	41½	41½	41½	41½	41½	41½
Abdominal extension height (high hip)	36½	36½	36½	36½	36½	36½	36½	36½	36½	36½
Hip height	32	32½	32½	32½	32½	32½	32½	32½	32½	32½
Crotch height	28½	28½	28½	29	29½	29½	29½	29½	29½	29½
Knee height	17½	17½	17½	17½	17½	17½	17½	17½	17½	17½
Ankle height	3	3	3	3	3	3	3	3	3	3
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>										
Cross-back width	13½	14	14½	15	15½	16	16½	17	17½	18
Cross-chest width	12½	12½	13½	13½	14	14½	14½	15½	15½	15½
Bust point to bust point	8	8½	8½	8½	9	9½	9½	9½	10	10½
Neck to bust point	10½	11½	11½	12½	12½	13½	13½	14½	14½	15½
Scye depth	7½	8	8½	8½	8½	8½	8½	8½	8½	9
Armscye to waist	8½	8½	8½	8½	8½	8½	8½	8½	8½	8
Waist to hips	8½	9½	9½	9½	9½	9½	9½	9½	9½	9½
Shoulder length	4½	4½	4½	4½	4½	4½	4½	4½	4½	4½
Shoulder slope (degrees)	24	24	24	24	24	24	24	24	24	24
Arm length, shoulder to wrist	23½	23½	23½	24½	24½	24½	24½	24½	24½	24½
Arm length, shoulder to elbow	13½	13½	13½	13½	13½	13½	13½	13½	13½	13½
Underarm length	16½	16½	16½	16½	16½	16½	16½	16½	16½	16½
Crotch length, total	30½	31½	32½	32½	33½	34	34½	34½	35½	35½
Cervicale to center front at waist	19½	20	20½	21	21½	22	22½	23	23½	24
Waist length, front	13½	13½	14½	14½	14½	14½	15½	15½	15½	15½
Waist length, back	15½	16	16½	16½	16½	16½	16½	16½	16½	16½
<b>WEIGHTS (pounds)</b>										
Weight, approximate	144	159	173	189	204	219	233	248	262	277

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

TABLE 7. Half-Sizes<sup>1</sup>

Size	12½	14½	16½	18½	20½	22½	24½	26½
<b>GIRTH MEASUREMENTS (inches)</b>								
Bust	36	38	40	42	44	46	48	50
Waist	28	30	32	34	36½	39	41½	44
Hip	37	39	41	43	45	47	49	51
Mid neck	14	14½	15	15½	16	16½	17	17½
Armscye	15½	16½	17¼	18	18¾	19½	20¼	21
Abdominal extension (high hip)	35	37	39	41	43¼	45½	47¾	50
Sitting spread	37¼	39¼	41¼	43¼	45¼	47¼	49¼	51¼
Thigh, maximum	21¼	22½	23¾	25	26¼	27½	28¾	30
Thigh, mid	18¾	19¾	20¾	21¾	22¾	23¾	24¾	25¾
Knee	13½	13¾	14½	14¾	15½	15¾	16½	16¾
Calf	12½	13½	13¾	14¾	14¾	15½	15¾	16¾
Ankle	8¾	8¾	9¾	9¾	9¾	9¾	10¾	10¾
Upper arm	11¾	12	12¾	13¼	13¾	14¼	15½	15¾
Elbow	9¾	10¼	10¾	11	11¾	11¾	12¾	12¾
Wrist	5¾	5¾	5¾	6	6¼	6¼	6¾	6¾
Vertical trunk	58¾	60¼	61¾	63¼	64¾	66¼	67¾	69¼
<b>ARC MEASUREMENTS (inches)</b>								
Bust, front	20½	21¾	23¼	24¾	26	27¾	28¾	30¼
Waist, front	15½	16¾	18	19¼	20¾	22¼	23¾	25¼
Abdominal, front (high hip)	18½	19¾	21	22¼	23¾	25¼	26¾	28¼
Hip, back	18¾	19½	20¼	21	21¾	22½	23¼	24
<b>VERTICAL MEASUREMENTS (inches)</b>								
Stature (total height)	60½	61	61½	62	62½	63	63½	64
Cervicale height	51½	52	52½	53	53½	54	54½	55
Waist height	37¾	37¾	38½	38½	38¾	39¼	39¾	40
Abdominal extension height (high hip)	34¾	34¼	34¾	34¾	34¾	34¾	34¾	35
Hip height	29¾	30	30¾	30¼	30¾	30½	30¾	30¾
Crotch height	26¾	26¾	26¾	27	27½	27¼	27¾	27½
Knee height	16¼	16¾	16½	16¾	16¾	16¾	17	17½
Ankle height	2¾	2¾	2¾	2¾	2¾	2¾	2¾	2¾
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>								
Cross-back width	13	13½	14	14½	15	15½	16	16½
Cross-chest width	12¾	12½	12¾	13¼	13¾	14	14¾	14¾
Bust point to bust point	7¾	8	8¼	8½	8¾	9	9¼	9¾
Neck to bust point	9¾	10¾	10¾	11¾	11¾	12¾	12¾	13¾
Scye depth	7½	7¾	7¾	7¾	8	8¼	8¼	8¾
Armscye to waist	7¾	7½	7¾	7¾	7¾	8	8¾	8¼
Waist to hips	8	8¼	8½	8¾	9	9¼	9½	9¾
Shoulder length	4¼	4¼	4¾	4¼	4½	4¼	4¾	4¼
Shoulder slope (degrees)	24	24	24	24	24	24	24	24
Arm length, shoulder to wrist	21¾	22¼	22¼	22¼	22¾	22¼	23	23¼
Arm length, shoulder to elbow	12½	12¾	12¾	12¾	13	13¾	13¼	13¾
Underarm length	15½	15¼	15¾	15¼	15¾	15¼	15¾	15¼
Crotch length, total	29¾	30¾	30¾	31¾	32¾	33¾	33¾	34¾
Cervicale to center front at waist	18½	19	19½	20	20½	21	21½	22
Waist length, front	12¾	13	13¼	13½	13¾	14	14¼	14½
Waist length, back	14¾	14¾	15¾	15¾	15¾	15¾	16¾	16¾
<b>WEIGHTS (pounds)</b>								
Weight, approximate	123	138	153	167	183	198	214	229

<sup>1</sup> 1 inch equals 2.54 centimeters, 1 pound equals 0.45 kilograms.

## 7. IDENTIFICATION

In order that purchasers may identify products conforming to all requirements of this Voluntary Product Standard, producers and distributors may include a statement of compliance in conjunction with their name and address on product labels, invoices, sales literature, and the like. The following statement is suggested when sufficient space is available:

This apparel is sized in accordance with Voluntary Product Standard PS 42-70, developed cooperatively with the industry and published by the National Bureau of Standards under the *Procedures for the Development of Voluntary Product Standards* of the U.S. Department of Commerce. Full responsibility for the conformance of this product to the standard is assumed by (name and address of producer or distributor).

The following abbreviated statement is suggested when available space on labels is insufficient for the full statement:

Sized in accordance with Voluntary Product Standard PS 42-70, (name and address of producer or distributor).

## 8. EFFECTIVE DATE

The effective date of this Voluntary Product Standard is the date upon which reference to the Standard may be made by producers, distributors, users and consumers, and other interested parties. Compliance by producers with all of the requirements of this Voluntary Product Standard may not actually occur until some time after its effective date. Products shall not be represented as conforming to this Voluntary Product Standard until such time as all requirements established in the Standard are met. The effective date of this Standard is December 22, 1970.

## 9. HISTORY OF PROJECT

Commercial Standard CS 215-58, *Body Measurements for the Sizing of Women's Patterns and Apparel*, was developed at the request of the Mail Order Association of America and was published in 1958.

At the request of the Mail Order Association of America in May 1968, a revision of CS 215-58 was developed to update the existing standard to more accurately reflect the current population of women. This revision includes tables to describe Juniors, Misses, Women, and Half-Sizes with height variations that include Junior Petite, Misses Petite, and Misses Talls. Span charts and grading guides have been added as appendixes. The definitions and methods of measuring remain the same as in CS 215-58. A mid-neck measurement has been added and three measurements (sit-

ting spread height, sitting height, and crotch length, front) have been deleted.

With the approval of the reconstituted Standing Committee, copies of the recommended Standard designated TS 167, were distributed to the industry to determine acceptability June 30, 1970. An analysis of the responses indicated a consensus among producers, distributors, and users as defined in the published procedures. The new edition of the Standard was designated Voluntary Product Standard PS 42-70, *Body Measurements for the Sizing of Women's Patterns and Apparel*, and became effective on December 22, 1970.

### *Technical Standards Coordinator:*

C. W. Devereux, Office of Engineering Standards Services, National Bureau of Standards, Washington, D.C. 20234.

## 10. STANDING COMMITTEE

The individuals whose names are listed below constitute the membership of the Standing Committee for this Standard. The function of the committee is to review all proposed revisions and amendments in order to keep this Standard up to date. Comments concerning this Standard and suggestions for its revision may be addressed to any member of the committee or to the Office of Engineering Standards Services, National Bureau of Standards, Washington, D.C. 20234, which acts as secretary for the committee.

### *Representing Producers*

Mr. Jim Bruce, Chairman, Genesco, Inc., 111 Seventh Avenue, Nashville, Tennessee 37202  
Mr. James S. Cawthon, Lorch-Westway Corporation, 4949 Beeman Avenue, Dallas, Texas 75223  
Mr. Sam Benson, C.M.J. Clothsmakers, Inc., 525 Seventh Avenue, New York, New York 10018  
Miss Barbara Hulse, Design Department, Simplicity Pattern Company, Inc., 200 Madison Avenue, New York, New York 10016  
Mr. Milton Cahn, Jonathan Logan, Inc., 3901 Liberty Avenue, North Bergen, New Jersey 07047  
Mr. Raymond Fahn, California Girl, Inc., 1800 S. Hill Street, Los Angeles, California 90015

### *Representing Distributors*

Mrs. Julia Lee, Woodward & Lothrop, 11th & F Streets, NW., Washington, D.C. 20001  
Mr. Seymour Sussman, Quality Control and Product Development, Korvettes, 450 West 33d Street, New York, New York 10001  
Mr. Aubrey Jay, Quality Control Department, J. C. Penney Company, Inc., 1301 Avenue of the Americas, New York, New York 10019

Mr. Elmer F. Kozak, Department 733 Q-S, Sears, Roebuck and Company, 925 South Homan Avenue, Chicago, Illinois 60607  
Mr. Herman Lichterman, Marie's Clothes Closet, 16555 Frederick Avenue, Gaithersburg, Maryland 20760  
Mr. Paul Salamone, Gimbel's, New York, New York 10001

#### *Representing Consumers*

Miss Erma A. Hinek, Consumers' Research, Inc., Washington, New Jersey 07882  
Mr. William Bell, Fashion Institute of Technology, 227 West 27th Street, New York, New York 10001  
Dr. Adeline M. Hoffman, Textiles and Clothing, College of Home Economics, University of Iowa, Iowa City, Iowa 52240  
Dr. Ray G. Price, University of Minnesota, Burton Hall, Minneapolis, Minnesota 55455  
Mrs. M. Margaret Dean, Montgomery Blair High School, 313 Wayne Drive, Silver Spring, Maryland 20907  
Mrs. Joyce Hawkins, Box 120, Route 1, Gaithersburg, Maryland 20760

#### *Representing General Interest*

Miss Jean Roberts, Analysis and Reports Branch, Division of Health Examination Statistics, Department of Health, Education, and Welfare, Public Health Service, Washington D.C. 20201  
Miss Jean Crosson, Women's Uniforms and Clothing Branch, U.S. Army Uniform Division, Clothing and Personal Life Support Equipment Laboratory, U.S. Army Natick Laboratories, Kansas Street, Natick, Massachusetts 01760  
Miss Rowena Dowlen, Textiles and Clothing Laboratory, Southern Marketing and Nutrition Research Division, Agricultural Research Service, U.S. Department of Agriculture, 2005 Lake Avenue, Knoxville, Tennessee 37916

#### **11. ACCEPTORS**

The producers, distributors, users, and others listed below have individually indicated in writing their acceptance of this Voluntary Product Standard prior to its publication. The acceptors have indicated their intention to use this Standard as far as practicable but reserve the right to depart from it when necessary. The list is published to show the extent of recorded public support for this Standard.

#### **ASSOCIATIONS**

American Council of Consumer Interests, Hyattsville, Maryland  
American Home Economics Association, Ames, Iowa

Connecticut Home Economics Association, Willimantic, Connecticut  
Consumer Conference of Greater Cincinnati, Cincinnati, Ohio  
Corset and Brassiere Association, The, New York, New York  
Designers & Pattern Makers Guild of Philadelphia, Melrose Park, Pennsylvania  
Mail Order Association of America, Chicago, Illinois  
National Consumers League, Washington, D.C.  
National Retail Merchants Association, New York, New York  
St. Louis District Dairy Council, St. Louis, Missouri

#### **PRODUCERS**

Adlerblum, M., and Sons, Inc., Yonkers, New York  
Adora Knitwear Company, Inc., New York, New York  
Aminara of India, Brookhaven, Pennsylvania  
Anderson Brothers, Inc., Danville, Virginia  
Anvil Brand, Inc., High Point, North Carolina  
Bayard Shirt Corporation, New York, New York  
Bayly Manufacturing Company, Denver, Colorado  
Berkowitz, Michael, Company, Inc., New York, New York  
Bits 'N Pieces, Inc., Tulsa Oklahoma  
Blue Bell, Inc., Greensboro, North Carolina  
Blue Gem Manufacturing Company, Greensboro, North Carolina  
Blue Jeans, Jonbil Corporation, New York, New York  
Bon Dana Sportswear Company, Inc., New York, New York  
Bressler Brothers, Inc., Atlanta, Georgia  
Brooks Uniform Company, Dallas, Texas  
Brunner Company, The, Cleveland, Ohio  
Brunswick Corporation, Tulsa, Oklahoma  
Carolina Apparel, Division of Oxford Industries, Gaffney, South Carolina  
Carolina Maid Products, Inc., Granite Quarry, North Carolina  
Carolina Underwear Company, Inc., Thomasville, North Carolina  
Champion Products Inc., Rochester, New York  
Charade Originals, New York, New York  
Chesterfield Manufacturing Corporation, Chesterfield, South Carolina  
Chester Sportswear, Division of Campus Sportswear, Chester, South Carolina  
Chic Pattern Service, New York, New York  
Clearfield Furs, Inc., Clearfield, Pennsylvania  
Dalsew, Inc., Dallas, Texas  
Day's Sportswear, Inc., Tacoma, Washington  
Dickson-Jenkins Manufacturing, Fort Worth, Texas  
Dillon Manufacturing Company, Dillon, South Carolina

Duquesne Manufacturing Company, New Kensington, Pennsylvania  
 Edison Textiles, Inc., Edison, Georgia  
 Elder Manufacturing Company, St. Louis, Missouri  
 Fenton Sports, Inc., Denver, Colorado  
 Genesco, Inc., Nashville, Tennessee  
 Gilberg Brothers, Inc., Philadelphia, Pennsylvania  
 Gusto Casuals, Inc., New York, New York  
 Hellgate Industries, Inc., Missoula, Montana  
 Higgins, Henry, Ltd., New York, New York  
 Hill Company, Inc., Fort Smith, Arkansas  
 Iron King Manufacturing Company, Baltimore, Maryland  
 Jantzen, Inc., Portland, Oregon  
 Jem Manufacturing Corporation, Rockville Centre, Long Island, New York  
 Kellwood Company, St. Louis, Missouri  
 Kendall Company Research Center, Barrington, Illinois  
 Lee, H. D., Company, Inc., Shawnee Mission, Kansas  
 Levi Strauss & Company, San Francisco, California  
 Lewis-Furriers, Sacramento, California  
 Lillian Russell, Inc., Wewoka, Oklahoma  
 Lingerie Industry Council, New York, New York  
 Lor-A-Lan Sportswear Inc., New York, New York  
 Maidenform, Inc., Bayonne, New Jersey  
 Manhattan Industries, Inc., Paterson, New Jersey  
 Marco Polo Ski Products, Inc., Seattle, Washington  
 Meyer, Herbert J., Industries, New York, New York  
 Mighty Mac, Inc., Gloucester, Maine  
 Miller, Henry L., & Son, Inc., Port Carbon, Pennsylvania  
 Miss Jane of Miami, Inc., Miami, Florida  
 Multi-Line Industries, Inc., Carrollton, Georgia  
 Neumann Pattern Service, Howard Beach, New York  
 Nurses Uniform Company, Inc., Baltimore, Maryland  
 Oklee Manufacturing Company, Oklee, Minnesota  
 Osborn Apparel Manufacturing Company, Salt Lake City, Utah  
 Outdoor Associates, Inc., Los Angeles, California  
 Pacific Trail Sportswear, Seattle, Washington  
 Peggy's Sportswear, Los Angeles, California  
 Plastimayd Corporation, Portland, Oregon  
 Princess Peggy, Inc., Peoria, Illinois  
 Renlyn, Inc., New York, New York  
 Russell Mills, Inc., Alexander City, Alabama  
 Satin, H. A., & Company, Inc., Chicago, Illinois  
 Scene 2, New York, New York  
 Scholastic Specialty Company, West Orange, New Jersey  
 Sealure, Division Catalina, Inc., Los Angeles, California

Shirley of Atlanta, Atlanta, Georgia  
 Skipjack, Bethesda, Maryland  
 Slovin Company, Inc., The, Worcester, Massachusetts  
 Society Lingerie Company, Inc., Michigan City, Indiana  
 Spartans Industries, Inc., Sparta, Tennessee  
 Sportempos, Inc., New York, New York  
 Susan of California, Inc., Los Angeles, California  
 Thompson, Les, Associates, Athens, Georgia  
 Tip-Top Hosiery Mills, Inc., Asheboro, North Carolina  
 Tropicana Sportswear, Inc., Honolulu, Hawaii  
 Tuf Nut Company, Little Rock, Arkansas  
 U-Glow Sportswear Company, Inc., New York, New York  
 Valor, Division of U.S. Industries, New Bedford, Massachusetts  
 Vogel, Sol, Designers, Inc., New York, New York  
 Warner's, Division of Warnaco, Inc., Bridgeport, Connecticut  
 Weiner, A., & Company, Philadelphia, Pennsylvania  
 Williamson - Dickie Manufacturing Company, Fort Worth, Texas  
 Wolverine Knitting Mills, Inc., Bay City, Michigan  
 Yolande, Division of Top Form Yolande, Inc., New York, New York

#### DISTRIBUTORS

Aldens, Inc., Chicago, Illinois  
 Ayres, L. S., and Company, Indianapolis, Indiana  
 Ben Franklin, Division of City Products Corporation, Des Plaines, Illinois  
 Bon Marche, Lewiston, Idaho  
 Carlisle-Allen Company, Ashtabula, Ohio  
 Filenes, William, and Sons, Boston, Massachusetts  
 Firmage, E. D., Company, Provo, Utah  
 Frederick's of Hollywood, Hollywood, California  
 Goldenberg Stores Corporation, Baltimore, Maryland  
 Grant, W. T., Company, New York, New York  
 Habichte, Huron, South Dakota  
 Hink, J. F., & Son, Berkeley, California  
 Hollywood Vassarette, Minneapolis, Minnesota  
 Horton's Inc., Richlands, Virginia  
 Jacobson's, Jackson, Michigan  
 Jewel Companies, Inc., Barrington, Illinois  
 Johnson Stores Company, Inc., Larimore, North Dakota  
 Killian's, Cedar Rapids, Iowa  
 Lucas, A. W., Company, Bismark, North Dakota  
 Lynch Corporation, The, Manchester, New Hampshire  
 Mansour Department Store, La Grange, Georgia  
 Montgomery Ward, New York, New York  
 Muraoka Department Stores, Honolulu, Hawaii  
 Newberry, J. J., Company, Inc., New York, New York

Penny, J. C., Company, Inc., New York, New York  
Realsilk, Inc., Indianapolis, Indiana  
Sears, Roebuck and Company, Chicago, Illinois  
Spiegel, Inc. Chicago, Illinois  
Taylor's Inc., Provo, Utah  
Woodward & Lothrop, Inc., Washington, D.C.  
Zollingen-Harre Allentown, Pennsylvania

#### USERS

Antioch College, Yellow Springs, Ohio  
Armstrong, Mary, Union, New Jersey  
Barry College, Miami Shores, Florida  
Bluffton College, Bluffton, Ohio  
Butterfield, Norma, Bloomfield Hills, Michigan  
California Fashion Institute, Los Angeles, California  
Carson-Newman College, Jefferson City, Tennessee  
Chandler, Marguerite, Martinsville, New Jersey  
Cornell University, Ithaca, New York  
Dayton University, Dayton, Ohio  
East Tennessee State University, Johnson City, Tennessee  
French Fashion Academy, New York, New York  
Georgia College, Milledgeville, Georgia  
Georgia, University of, Athens, Georgia  
Goshen College, Goshen, Indiana  
Hawaii, University of, Honolulu, Hawaii  
Hawkins, Joyce, Gaithersburg, Maryland  
Iowa, University of, Iowa City, Iowa  
Krofta, Janet, Orono, Maine  
Minnesota, University of, Minneapolis, Minnesota  
Montclair State College, Upper Montclair, New Jersey  
Montgomery Blair High School, Silver Spring, Maryland  
Murray State University, Murray, Kentucky  
Newark Senior High School, Newark, Ohio  
New Hampshire, University of, Durham, New Hampshire  
Ohio University, Athens, Ohio  
Penn Hills Senior High School, Pittsburgh, Pennsylvania  
Pennsylvania State University, University Park, Pennsylvania  
Pfaffin, Nancy, Coram, New York  
Pinellas County, The School Board of, St. Petersburg, Florida  
Purdue University, Lafayette, Indiana  
Rutgers University, Patterson, New Jersey  
Sigler, F. S., Millbrae, California  
Southern Mississippi, University of, Hattiesburg, Mississippi  
State University College, Oneonta, New York  
Tennessee, University of, Knoxville, Tennessee  
Texas Christian University, Fort Worth, Texas  
Trieshmann, Helmuth, South Plainfield, New Jersey  
Utica Free Academy, Utica, New York  
Van Santen, Garnet, Van Nuys, California

Vermont, University of, Burlington, Vermont  
Wayne State University, Detroit, Michigan  
Western Michigan University, Kalamazoo, Michigan

#### GENERAL INTEREST

Birchard, Helen, Saratoga Springs, New York  
Fashion Institute of Technology, New York, New York  
Good Housekeeping Institute, New York, New York  
Hamilton Central School, Hamilton, New York  
Kendall, George H., Mechanical Engineers & Consultants, New London, Connecticut  
Macomb Credit Adjustors, Mt. Clemens, Michigan  
Michigan State University, East Lansing, Michigan  
Mid-Eastern Cooperatives Inc., Carlstadt, New Jersey  
Pittsburgh, University of, Pittsburgh, Pennsylvania  
SMC Federal Credit Union, Waterbury, Connecticut  
Sperry and Hutchinson Company, The, Byram, Connecticut  
Winthrop College, Rock Hill, South Carolina

#### FEDERAL GOVERNMENT

U.S. Army Natick Laboratories, Clothing and Personal Life Support Equipment Laboratory, Natick, Massachusetts  
U.S. Department of Agriculture, Textiles & Clothing Laboratory, Knoxville, Tennessee

#### STATE AND LOCAL GOVERNMENTS

Agricultural Extension Service, Palmetto, Florida  
Clemson University, Cooperative Extension Service, Clemson, South Carolina  
Cooperative Extension Service, Athens, Georgia  
Cooperative Extension Service, Auburn, Alabama  
Cooperative Extension Service, Chesapeake, Virginia  
Cooperative Extension Service, Flemington, New Jersey  
Cooperative Extension Service, Gaithersburg, Maryland  
Cooperative Extension Service, Georgetown, South Carolina  
Cooperative Extension Service, Las Vegas, Nevada  
Cooperative Extension Service, Pell City, Alabama  
Cooperative Extension Service, Rochester, New Hampshire  
Florida, University of, Extension Home Economics, Gainesville, Florida  
Maryland, University of, Cooperative Extension Service, College Park, Maryland



Monroe County Cooperative Extension Service,  
Rochester, New York

Montgomery County Cooperative Extension Serv-  
ice, Gaithersburg, Maryland

Purdue University, Cooperative Extension Serv-  
ice, Lafayette, Indiana

Westchester County, Cooperative Extension Serv-  
ice, White Plains, New York

APPENDIX A. SPAN CHART<sup>1</sup>  
Women

Size	34	36	38	40	42	44	46	48	50	52
Bust between	37-38½	39-40½	41-42½	43-44½	45-46½	47-48½	49-50½	51-52½	53-54½	55-56½
Waist between	29-30½	31-32½	33-34½	35-37	37½-39½	40-42	42½-44½	45-47	47½-49½	50-52
Hip between	38-39½	40-41½	42-43½	44-45½	46-47½	48-49½	50-51½	52-53½	54-55½	56-57½

Half-Sizes

Size	12½	14½	16½	18½	20½	22½	24½	26½
Bust between	35-36½	37-38½	39-40½	41-42½	43-44½	45-46½	47-48½	49-50½
Waist between	27-28½	29-30½	31-32½	33-34½	35-37	37½-39½	40-42	42½-44½
Hip between	36-37½	38-39½	40-41½	42-43½	44-45½	46-47½	48-49½	50-51½

Junior (Petite, P)

Size	3	5 (P)	7 (P)	9 (P)	11 (P)	13 (P)	16 (P)	17
Bust between	30-30½	31-31½	32-32½	33-33½	34-35	35½-36½	37-38	38½-39½
Waist between	20½-21	21½-22	22½-23	23½-24	24½-25½	26-27	27½-28½	29-30
Hip between	32-32½	33-33½	34-34½	35-35½	36-37	37½-38½	39-40	40½-41½

Misses (Petites, P; Talls, T)

Size	6	8 (P)	10 (P,T)	12 (P,T)	14 (P,T)	16 (P,T)	18 (P,T)	20 (T)	22 (T)
Bust between	31½-32	32½-33	33½-34	34½-35½	36-37	37½-38½	39-40½	41-42½	43-44½
Waist between	22½-23	23½-24	24½-25	25½-26½	27-28	28½-29½	30-31½	32-33½	34-35½
Hip between	33½-34	34½-35	35½-36	36½-37½	38-39	39½-40½	41-42½	43-44½	45-46½

<sup>1</sup>This span chart represents a range of measurements for each size for each key measurement. It is included only to assist the consumer in identifying women's body types and sizes, and is not a requirement for the Standard. Bust, waist, hip are in inches. 1 inch equals 2.54 centimeters.

**APPENDIX B. GRADING GUIDES**  
**Junior Petite**

Size	Grade Between 3P-5P	Grade Between 5P-7P	Grade Between 7P-9P	Grade Between 9P-11P	Grade Between 11P-13P	Grade Between 13P-15P
<b>GIRTH MEASUREMENTS (inches)</b>						
Bust -----	1	1	1	1½	1½	1½
Waist -----	1	1	1	1½	1½	1½
Hip -----	1	1	1	1½	1½	1½
Mid neck -----	¾	¾	¾	¾	¾	¾
Armseye -----	¾	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	1	1	1	1½	1½	1½
Sitting spread -----	1	1	1	1½	1½	1½
Thigh, maximum -----	¾	¾	¾	1	1	1
Thigh, mid -----	½	½	½	¾	¾	¾
Knee -----	¾	¾	¾	¾	¾	¾
Calf -----	¾	¾	¾	¾	¾	¾
Ankle -----	¾	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (inches)</b>						
Bust, front -----	¾	¾	¾	1	1	1
Waist, front -----	¾	¾	¾	¾	¾	¾
Abdominal, front (high hip) -----	¾	¾	¾	¾	¾	¾
Hip, back -----	¾	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (inches)</b>						
Stature (total height) -----	½	½	½	½	½	½
Cervicale height -----	½	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾	¾
Abdominal extension height (high hip) -----	¾	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>						
Cross-back width -----	¾	¾	¾	¾	¾	¾
Cross-chest width -----	¾	¾	¾	¾	¾	¾
Bust point to bust point -----	¾	¾	¾	¾	¾	¾
Neck to bust point -----	¾	¾	¾	¾	¾	¾
Scye depth -----	¾	¾	¾	¾	¾	¾
Armseye to waist -----	¾	¾	¾	¾	¾	¾
Waist to hips -----	¾	¾	¾	¾	¾	¾
Shoulder length -----	1½	1½	1½	1½	1½	1½
Shoulder slope (degrees) -----	0	0	0	0	0	0
Arm length, shoulder to wrist -----	1½	1½	1½	1½	1½	1½
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾	¾
Underarm length -----	1½	1½	1½	1½	1½	1½
Crotch length, total -----	¾	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	¾	¾	¾	¾	¾	¾
Waist length, front -----	¾	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾	¾

APPENDIX B. GRADING GUIDES (Continued)

Juniors

Size	Grade between 3-5	Grade between 5-7	Grade between 7-9	Grade between 9-11	Grade between 11-13	Grade between 13-15	Grade between 15-17
<b>GIRTH MEASUREMENTS (Inches)</b>							
Bust -----	1	1	1	1½	1½	1½	1½
Waist -----	1	1	1	1½	1½	1½	1½
Hip -----	1	1	1	1½	1½	1½	1½
Mid neck -----	¾	¾	¾	¾	¾	¾	¾
Armscye -----	¾	¾	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	1	1	1	1½	1½	1½	1½
Sitting spread -----	1	1	1	1½	1½	1½	1½
Thigh, maximum -----	¾	¾	¾	1	1	1	1
Thigh, mid -----	½	½	½	¾	¾	¾	¾
Knee -----	¾	¾	¾	¾	¾	¾	¾
Calf -----	¾	¾	¾	¾	¾	¾	¾
Ankle -----	¾	¾	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (Inches)</b>							
Bust, front -----	¾	¾	¾	1	1	1	1
Waist, front -----	¾	¾	¾	¾	¾	¾	¾
Abdominal, front (high hip) -----	¾	¾	¾	¾	¾	¾	¾
Hip, back -----	¾	¾	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (Inches)</b>							
Stature (total height) -----	½	½	½	¾	¾	¾	¾
Cervicale height -----	½	½	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾	¾	¾
Abdominal extension height (high hip) -----	¾	¾	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (Inches)</b>							
Cross-back width -----	¾	¾	¾	¾	¾	¾	¾
Cross-chest width -----	¾	¾	¾	¾	¾	¾	¾
Bust point to bust point -----	¾	¾	¾	¾	¾	¾	¾
Neck to bust point -----	¾	¾	¾	¾	¾	¾	¾
Scye depth -----	¾	¾	¾	¾	¾	¾	¾
Armscye to waist -----	¾	¾	¾	¾	¾	¾	¾
Waist to hips -----	¾	¾	¾	¾	¾	¾	¾
Shoulder length -----	1½	1½	1½	1½	1½	1½	1½
Shoulder slope (degrees) -----	0	0	0	0	0	0	0
Arm length, shoulder to wrist -----	1½	1½	1½	1½	1½	1½	1½
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾	¾	¾
Underarm length -----	1½	1½	1½	1½	1½	1½	1½
Crotch length, total -----	¾	¾	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	¾	¾	¾	¾	¾	¾	¾
Waist length, front -----	¾	¾	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾	¾	¾

**APPENDIX B. GRADING GUIDES (Continued)**  
**Misses Petite**

Size	Grade between 8P-10P	Grade between 10P-12P	Grade between 12P-14P	Grade between 14P-16P	Grade between 16P-18P
<b>GIRTH MEASUREMENTS (inches)</b>					
Bust -----	1	1½	1½	1½	2
Waist -----	1	1½	1½	1½	2
Hip -----	1	1½	1½	1½	2
Mid neck -----	¾	¾	¾	¾	¾
Armhole -----	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	1	1½	1½	1½	2
Sitting spread -----	1	1½	1½	1½	2
Thigh, maximum -----	¾	1	1	1	1½
Thigh, mid -----	½	¾	¾	¾	1
Knee -----	¾	¾	¾	¾	¾
Calf -----	¾	¾	¾	¾	¾
Ankle -----	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (inches)</b>					
Bust, front -----	¾	1	1	1	1½
Waist, front -----	¾	¾	¾	¾	1½
Abdominal, front (high hip) -----	¾	¾	¾	¾	1½
Hip, back -----	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (inches)</b>					
Stature (total height) -----	½	½	½	½	½
Cervicale height -----	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾
Abdominal extension height (high hip) -----	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>					
Cross-back width -----	¾	¾	¾	¾	¾
Cross-chest width -----	¾	¾	¾	¾	¾
Bust point to bust point -----	¾	¾	¾	¾	¾
Neck to bust point -----	¾	¾	¾	¾	¾
Scye depth -----	¾	¾	¾	¾	¾
Armhole to waist -----	¾	¾	¾	¾	¾
Waist to hips -----	¾	¾	¾	¾	¾
Shoulder length -----	¾	¾	¾	¾	¾
Shoulder slope (degrees) -----	0	0	0	0	0
Arm length, shoulder to wrist -----	¾	¾	¾	¾	¾
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾
Underarm length -----	¾	¾	¾	¾	¾
Crotch length, total -----	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	¾	¾	¾	¾	¾
Waist length, front -----	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾

APPENDIX B. GRADING GUIDES (Continued)

Misses

Size	Grade between 6-8	Grade between 8-10	Grade between 10-12	Grade between 12-14	Grade between 14-16	Grade between 16-18	Grade between 18-20	Grade between 20-22
<b>GIRTH MEASUREMENTS (inches)</b>								
Bust -----	1	1	1½	1½	1½	2	2	2
Waist -----	1	1	1½	1½	1½	2	2	2
Hip -----	1	1	1½	1½	1½	2	2	2
Mid neck -----	¾	¾	¾	¾	¾	¾	¾	¾
Armhole -----	¾	¾	¾	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	1	1	1½	1½	1½	2	2	2
Sitting spread -----	1	1	1½	1½	1½	2	2	2
Thigh, maximum -----	¾	¾	1	1	1	1½	1½	1½
Thigh, mid -----	½	½	¾	¾	¾	1	1	1
Knee -----	¾	¾	¾	¾	¾	¾	¾	¾
Calf -----	¾	¾	¾	¾	¾	¾	¾	¾
Ankle -----	¾	¾	¾	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (inches)</b>								
Bust, front -----	¾	¾	1	1	1	1½	1½	1½
Waist, front -----	¾	¾	¾	¾	¾	1½	1½	1½
Abdominal, front (high hip) -----	¾	¾	¾	¾	¾	1½	1½	1½
Hip, back -----	¾	¾	¾	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (inches)</b>								
Stature (total height) -----	½	½	½	½	½	½	½	½
Cervicale height -----	½	½	½	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾	¾	¾	¾
Abdominal extension height (high hip) -----	¾	¾	¾	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>								
Cross-back width -----	¾	¾	¾	¾	¾	¾	¾	¾
Cross-chest width -----	¾	¾	¾	¾	¾	¾	¾	¾
Bust point to bust point -----	¾	¾	¾	¾	¾	¾	¾	¾
Neck to bust point -----	¾	¾	¾	¾	¾	¾	¾	¾
Scye depth -----	¾	¾	¾	¾	¾	¾	¾	¾
Armhole to waist -----	¾	¾	¾	¾	¾	¾	¾	¾
Waist to hips -----	¾	¾	¾	¾	¾	¾	¾	¾
Shoulder length -----	¾	¾	¾	¾	¾	¾	¾	¾
Shoulder slope (degrees) -----	0	0	0	0	0	0	0	0
Arm length, shoulder to wrist -----	¾	¾	¾	¾	¾	¾	¾	¾
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾	¾	¾	¾
Underarm length -----	¾	¾	¾	¾	¾	¾	¾	¾
Crotch length, total -----	¾	¾	¾	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	¾	¾	¾	¾	¾	¾	¾	¾
Waist length, front -----	¾	¾	¾	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾	¾	¾	¾

**APPENDIX B. GRADING GUIDES (Continued)**  
**Misses Talls**

Size	Grade Between 10T-12T	Grade Between 12T-14T	Grade Between 14T-16T	Grade Between 16T-18T	Grade Between 18T-20T	Grade Between 20T-22T
<b>GIRTH MEASUREMENTS (inches)</b>						
Bust -----	1½	1½	1½	2	2	2
Waist -----	1½	1½	1½	2	2	2
Hip -----	1½	1½	1½	2	2	2
Mid neck -----	¾	¾	¾	¾	¾	¾
Armscye -----	¾	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	1½	1½	1½	2	2	2
Sitting spread -----	1½	1½	1½	2	2	2
Thigh, maximum -----	1	1	1	1¼	1¼	1¼
Thigh, mid -----	¾	¾	¾	1	1	1
Knee -----	½	½	½	½	½	½
Calf -----	½	½	½	½	½	½
Ankle -----	¾	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (inches)</b>						
Bust, front -----	1	1	1	1¾	1¾	1¾
Waist, front -----	¾	¾	¾	1¼	1¼	1¼
Abdominal, front (high hip) -----	¾	¾	¾	1¼	1¼	1¼
Hip, back -----	¾	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (inches)</b>						
Stature (total height) -----	½	½	½	½	½	½
Cervicale height -----	½	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾	¾
Abdominal extension height (high hip) -----	¾	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>						
Cross-back width -----	¾	¾	¾	¾	¾	¾
Cross-chest width -----	¾	¾	¾	¾	¾	¾
Bust point to bust point -----	¾	¾	¾	¾	¾	¾
Neck to bust point -----	¾	¾	¾	¾	¾	¾
Scye depth -----	¾	¾	¾	¾	¾	¾
Armscye to waist -----	¾	¾	¾	¾	¾	¾
Waist to hips -----	¾	¾	¾	¾	¾	¾
Shoulder length -----	1½	1½	1½	1½	1½	1½
Shoulder slope (degrees) -----	0	0	0	0	0	0
Arm length, shoulder to wrist -----	1½	1½	1½	1½	1½	1½
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾	¾
Underarm length -----	1½	1½	1½	1½	1½	1½
Crotch length, total -----	¾	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	¾	¾	¾	¾	¾	¾
Waist length, front -----	¾	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾	¾

APPENDIX B. GRADING GUIDES (Continued)

Women's

Size	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	
	between 34-36	between 36-38	between 38-40	between 40-42	between 42-44	between 44-46	between 46-48	between 48-50	between 50-52	
<b>GIRTH MEASUREMENTS (inches)</b>										
Bust -----	2	2	2	2	2	2	2	2	2	
Waist -----	2	2	2½	2½	2½	2½	2½	2½	2½	
Hip -----	2	2	2	2	2	2	2	2	2	
Mid neck -----	½	½	½	½	½	½	½	½	½	
Armseye -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Abdominal extension (high hip) --	2	2	2½	2½	2½	2½	2½	2½	2½	
Sitting spread -----	2	2	2	2	2	2	2	2	2	
Thigh, maximum -----	1½	1½	1½	1½	1½	1½	1½	1½	1½	
Thigh, mid -----	1	1	1	1	1	1	1	1	1	
Knee -----	½	½	½	½	½	½	½	½	½	
Calf -----	½	½	½	½	½	½	½	½	½	
Ankle -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Upper arm -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Elbow -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Wrist -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Vertical trunk -----	1½	1½	1½	1½	1½	1½	1½	1½	1½	
<b>ARC MEASUREMENTS (inches)</b>										
Bust, front -----	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	
Waist, front -----	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	
Abdominal, front (high hip) -----	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	
Hip, back -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
<b>VERTICAL MEASUREMENTS (inches)</b>										
Stature (total height) -----	½	½	½	½	0	0	0	0	0	
Cervicale height -----	½	½	½	½	0	0	0	0	0	
Waist height -----	¾	¾	¾	¾	0	0	0	0	0	
Abdominal extension height (high hip) -----	¾	¾	¾	¾	0	0	0	0	0	
Hip height -----	¾	¾	¾	¾	0	0	0	0	0	
Crotch height -----	¾	¾	¾	¾	0	0	0	0	0	
Knee height -----	¾	¾	¾	¾	0	0	0	0	0	
Ankle height -----	0	0	0	0	0	0	0	0	0	
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>										
Cross-back width -----	½	½	½	½	½	½	½	½	½	
Cross-chest width -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Bust point to bust point -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Neck to bust point -----	½	½	½	½	½	½	½	½	½	
Scye depth -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Armseye to waist -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Waist to hips -----	¾	¾	¾	¾	0	0	0	0	0	
Shoulder length -----	¾	¾	¾	¾	0	0	0	0	0	
Shoulder slope (degrees) -----	0	0	0	0	0	0	0	0	0	
Arm length, shoulder to wrist ----	¾	¾	¾	¾	0	0	0	0	0	
Arm length, shoulder to elbow ----	¾	¾	¾	¾	0	0	0	0	0	
Underarm length -----	¾	¾	¾	¾	0	0	0	0	0	
Crotch length, total -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Cervicale to center front at waist -	½	½	½	½	½	½	½	½	½	
Waist length, front -----	¾	¾	¾	¾	¾	¾	¾	¾	¾	
Waist length, back -----	¾	¾	¾	¾	0	0	0	0	0	



**APPENDIX B. GRADING GUIDES (Continued)**  
**Half-Sizes**

Size	Grade	Grade	Grade	Grade	Grade	Grade	Grade
	between 12½-14½	between 14½-16½	between 16½-18½	between 18½-20½	between 20½-22½	between 22½-24½	between 24½-26½
<b>GIRTH MEASUREMENTS (inches)</b>							
Bust -----	2	2	2	2	2	2	2
Waist -----	2	2	2	2½	2½	2½	2½
Hip -----	2	2	2	2	2	2	2
Mid neck -----	½	½	½	½	½	½	½
Armscye -----	¾	¾	¾	¾	¾	¾	¾
Abdominal extension (high hip) -----	2	2	2	2½	2½	2½	2½
Sitting spread -----	2	2	2	2	2	2	2
Thigh, maximum -----	1½	1½	1½	1½	1½	1½	1½
Thigh, mid -----	1	1	1	1	1	1	1
Knee -----	½	½	½	½	½	½	½
Calf -----	½	½	½	½	½	½	½
Ankle -----	¾	¾	¾	¾	¾	¾	¾
Upper arm -----	¾	¾	¾	¾	¾	¾	¾
Elbow -----	¾	¾	¾	¾	¾	¾	¾
Wrist -----	¾	¾	¾	¾	¾	¾	¾
Vertical trunk -----	1½	1½	1½	1½	1½	1½	1½
<b>ARC MEASUREMENTS (inches)</b>							
Bust, front -----	1¾	1¾	1¾	1¾	1¾	1¾	1¾
Waist, front -----	1½	1½	1½	1½	1½	1½	1½
Abdominal, front (high hip) -----	1½	1½	1½	1½	1½	1½	1½
Hip, back -----	¾	¾	¾	¾	¾	¾	¾
<b>VERTICAL MEASUREMENTS (inches)</b>							
Stature (total height) -----	½	½	½	½	½	½	½
Cervicale height -----	½	½	½	½	½	½	½
Waist height -----	¾	¾	¾	¾	¾	¾	¾
Abdominal extension height (high hip) --	¾	¾	¾	¾	¾	¾	¾
Hip height -----	¾	¾	¾	¾	¾	¾	¾
Crotch height -----	¾	¾	¾	¾	¾	¾	¾
Knee height -----	¾	¾	¾	¾	¾	¾	¾
Ankle height -----	0	0	0	0	0	0	0
<b>WIDTH AND LENGTH MEASUREMENTS (inches)</b>							
Cross-back width -----	½	½	½	½	½	½	½
Cross-chest width -----	¾	¾	¾	¾	¾	¾	¾
Bust point to bust point -----	¼	¼	¼	¼	¼	¼	¼
Neck to bust point -----	½	½	½	½	½	½	½
Scye depth -----	¾	¾	¾	¾	¾	¾	¾
Armscye to waist -----	¾	¾	¾	¾	¾	¾	¾
Waist to hips -----	¼	¼	¼	¼	¼	¼	¼
Shoulder length -----	⅞	⅞	⅞	⅞	⅞	⅞	⅞
Shoulder slope (degrees) -----	0	0	0	0	0	0	0
Arm length, shoulder to wrist -----	⅞	⅞	⅞	⅞	⅞	⅞	⅞
Arm length, shoulder to elbow -----	¾	¾	¾	¾	¾	¾	¾
Underarm length -----	⅞	⅞	⅞	⅞	⅞	⅞	⅞
Crotch length, total -----	¾	¾	¾	¾	¾	¾	¾
Cervicale to center front at waist -----	½	½	½	½	½	½	½
Waist length, front -----	¾	¾	¾	¾	¾	¾	¾
Waist length, back -----	¾	¾	¾	¾	¾	¾	¾

**APPENDIX C**  
**ADJUSTMENTS IN SIZE SCALES TO COMPENSATE**  
**FOR EFFECT OF FOUNDATION GARMENTS**

The size scales in this Standard represent the consumer dressed in foundation garments, thus the system is based on the woman's figure enhanced by a good-fitting foundation garment without padding.

"Nude" data may be obtained from tables 1 through 7 by adding or subtracting the adjustments given below.

a. Subtract the following from the measurements given in the tables to get "nude" data.

1. Bust girth -----1 inch
2. Bust arc, anterior -----1 inch

b. Add the following to the measurements given in the tables to get "nude" data.

1. Waist girth ----- $\frac{1}{2}$  inch
2. Waist arc, front ----- $\frac{1}{2}$  inch
3. Abdominal extension (high  
hip) girth ----- $\frac{1}{2}$  inch
4. Abdominal extension (high  
hip) arc, front ----- $\frac{1}{2}$  inch
5. Hip girth ----- $\frac{1}{2}$  inch
6. Hip arc, back ----- $\frac{1}{4}$  inch
7. Neck to bust length
  - a. Juniors and Misses' ----- $\frac{1}{2}$  inch
  - b. Women's and Half -----1 inch

#### TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance of a Voluntary Product Standard and its significance:

1. *Enforcement*—Voluntary Product Standards contain requirements which are established by mutual consent of those concerned in accordance with the *Procedures for the Development of Voluntary Product Standards* published by the Department of Commerce (15 CFR Part 10, as amended, May 28, 1970). The standards provide a common basis of understanding among producers, distributors, and users or consumers. The National Bureau of Standards has *no* regulatory power in the enforcement of the provisions of voluntary standards, but since these standards represent the will of the interested groups as a whole, their provisions soon become established as trade customs and become effective when the standards are referenced in sales contracts, procurement specifications, government regulations, and the like.

2. *The Responsibility of the Acceptor*—The purpose of Voluntary Product Standards is to establish, for specific items, nationally recognized sizes, grades, material requirements, or performance criteria. The benefits that result from these standards will be in direct proportion to general recognition and actual use of the standards. Instances will occur when it may be necessary to deviate from a standard. The signing of an acceptance does not preclude such departures. The acceptor's signature, however, indicates an intention to follow the standard, where practicable, in the production, distribution, or use and consumption of the product in question.

# ACCEPTANCE OF VOLUNTARY PRODUCT STANDARD

PS 42-70, BODY MEASUREMENTS FOR THE SIZING OF WOMEN'S PATTERNS AND APPAREL

This form properly completed, signed, and returned will show your acceptance of this *Voluntary Product Standard*.

Date \_\_\_\_\_

Office of Engineering Standards Services  
National Bureau of Standards  
U.S. Department of Commerce  
Washington, D.C. 20234

# WITHDRAWN

Gentlemen:

We are primarily engaged in the following segment of the industry:

(Please check only one.)

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Production   | <input type="checkbox"/> Use/consumption  |
| <input type="checkbox"/> Distribution | <input type="checkbox"/> General Interest |

We believe that this *Voluntary Product Standard* constitutes a useful standard of practice, and we plan to use it as far as practicable. *However*, we reserve the right to depart from the standard as we deem advisable.

We understand, of course, that only those products which actually conform to the standard in all respects may be represented as conforming thereto.

Signature of authorized officer \_\_\_\_\_

(Please type or print the following)

Name and title of above officer \_\_\_\_\_

Organization \_\_\_\_\_

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Applied Mathematics—Electricity—Heat—Mechanics—Optical Physics—Linac Radiation<sup>2</sup>—Nuclear Radiation<sup>2</sup>—Applied Radiation<sup>2</sup>—Quantum Electronics<sup>3</sup>—Electromagnetics<sup>3</sup>—Time and Frequency<sup>3</sup>—Laboratory Astrophysics<sup>3</sup>—Cryogenics<sup>3</sup>.

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<sup>1</sup> Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D. C. 20234.

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