



Standard Tables of Body Measurements for Women Aged 55 and Older (All Figure Types)^{1,2}

This standard is issued under the fixed designation D5586/D5586M; 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 original research conducted by Reich and Goldsberry³ at the University of Arizona in 1993. The study included 6786 subjects represented geographically by 38 states. Subjects were measured in 58 body locations, 45 of which duplicated measurements published by the U.S. Department of Commerce as PS 42-70² based on research conducted in 1942 by O'Brien and Shelton⁴ including 1970 revisions. The 13 additional measurements provided in the 1993 technical report further depict physiological changes that occur in the older female figure. The PS 42-70 data, represented by only 2 % of older women, continues to be used as a baseline for measurements and proportions for all adult women in the domestic sizing system. These tables reflect the proportions and maturity patterns of women aged 55 and older, not currently represented in adult female figure types and size categories of the domestic sizing system now in use. Further description of this market segment and consumer sizing issues are outlined by Goldsberry.⁵

1. Scope

1.1 This document represents research methodology and the tables represent charted data from subjects. Some terminology is specific to the research. The data represent the first body measurements ever taken of women aged 55 and older and is not a standard of average current apparel industry practices as represented in all other sizing standards.

1.2 These tables list body measurements of adult women age 55 and over. The body measurements tables can be used as a baseline in designing apparel for adult women in this age group, taking into account such factors as fabric type, desired ease of body movement, styling, and fit.

1.3 Measurement tables correspond to the figure types and numerical size designations in the PS 42-70 database. Until body measurements of all adult women are updated, companies will have to analyze the older customer's differences by body measurements and proportions instead of hang tag numbers, and adapt them to currently marketed sizes and figure types. Companies especially affected are those who are today using smaller numbered hang tag designations, who offer mainly S, M, and L sizes, or who have adjusted their charts from the PS 42-70 database to reflect the specific body measurements of their 1990's customer.

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

2. Referenced Documents

2.1 ASTM Standards:⁶

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

D5585 Table of Body Measurements for Adult Female

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 Women's Patterns and Apparel*, NIST No. PS 42-70, U.S. Government Printing Office, Washington, DC, 1971.

³ Reich, N., and Goldsberry, E., *Development of Body Measurement Tables for Women 55 and Older and the Relationship to Ready-to-Wear Garment Size*, ISR-06, PCN: 33-000006-18, ASTM Institute for Standards Research, Philadelphia, PA, 1993.

⁴ O'Brien, R., and Shelton, W. C., *Women's Measurements for Garment and Pattern Construction*, Miscellaneous Publication No. 454, U.S. Department of Agriculture, 1941.

⁵ Goldsberry, E., *Women 55 and Older: How Well is the Domestic Apparel Sizing System Addressing Their Needs?* ISR-08, PCN: 33-000008-18, ASTM Institute for Standards Research, Philadelphia, PA, 1993.

⁶ 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.



Misses Figure Type, Sizes 2-20⁷

2.2 ISO Standards:⁸

ISO 3635-1981 Size Designation of Clothes, Definition and Body Measurement Procedures

ISO 8559 Garment Construction and Anthropometric Surveys—Body Dimensions

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms relating to body measurements refer to Terminology **D5219**.

3.1.2 For definitions of other textile terms, refer to Terminology **D123**.

4. Significance and Use

4.1 The use of the body measurement information given in **Tables 1-7** will assist manufacturers in developing patterns and garments consistent with the current anthropometric characteristics of the older adult female population. This practice should in turn reduce or minimize current consumer confusion and dissatisfaction related to apparel sizing. (Also refer to **D5585** and **ISO 3635-1981** and **ISO 8559**.)

4.2 As an aid in using **Tables 1-7**, **Table 8** is provided as a guide for comparison on only the Misses Figure Type size

labels and body proportions in D5586 (55 and older women Misses Figure Type—**Table 4**) with the Misses current best practices (**D5585**). Document D5586 includes measurement charts for all figure types contained in the PS-42-70 database to which the 55 and older database (D5586) was compared. **Table 8** can further assist designers, product develop managers and patternmakers in using this document who are designing apparel for the older woman consumer market segment.

4.3 The importance of **Table 8** is to emphasize that over the years since the PS-42-70 measurement database was published, sets of measurement proportions have been assigned increasingly smaller size label designations. Thus, proportion comparisons of only size labeling cannot be directly made to those currently used when referencing the D5586 tables. In **Table 8**, it is evident that the **D5585** Misses Figure type size label numbers are approximately four sizes smaller than those assigned to D5586 **Table 4** which references the same general proportions as in the PS-42-70 database. Thus, when converting data from all figure types in D5586, refer to the general measurement proportions, and not the designated size label when developing and grading patterns.

4.4 Measurements appearing in the D5586 tables without comparable measurements in **D5585** (current Misses best practices data) represent additional body measurements taken for the D5586 database for older women. Also, comparable data were not available in extremely small and large sizes for comparison. All measurements in **Table 8** are inches only.

⁷ Withdrawn. The last approved version of this historical standard is referenced on www.astm.org.

⁸ Available from International Organization for Standardization (ISO), 1, ch. de la Voie-Creuse, Case postale 56, CH-1211, Geneva 20, Switzerland, <http://www.iso.ch>.



TABLE 1 Women 55+ of Junior Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	J3 N= 14	J5 N=21	J7 N=56	J9 N=115	J11 N=202	J13 N=271	J15 N=90	J17 N=95
GIRTH MEASUREMENTS IN CENTIMETERS								
Bust	75.79	79.83	82.59	85.35	88.95	92.81	94.70	98.93
Bust,Arc	39.75	43.67	44.15	45.74	47.83	50.05	51.61	53.58
Waist	66.54	69.29	71.65	74.31	77.32	81.41	83.69	87.99
Waist Arc	34.61	37.07	38.41	39.47	41.02	43.55	45.04	47.35
Abdominal Extension	83.18	85.19	87.91	90.53	94.28	97.16	100.88	103.56
Abdominal Arc	43.18	44.79	45.80	47.30	49.27	51.56	53.32	55.04
Hip	86.86	89.36	92.44	93.51	96.97	99.55	102.88	104.71
Hip Arc Back	44.07	45.24	46.85	47.22	48.99	49.85	51.63	51.97
Sitting Spread	89.39	93.93	96.47	98.15	101.94	104.77	108.52	110.45
Midneck	31.46	31.40	31.77	32.20	32.75	33.59	33.88	34.75
Neck Base **	36.88	38.07	39.21	38.35	38.92	39.79	40.63	40.85
Armscye	38.57	40.55	40.21	41.45	42.41	43.45	44.67	46.14
Upper arm	24.86	25.79	27.22	28.06	29.40	30.45	31.39	32.40
Elbow	23.64	24.74	24.74	25.44	26.05	27.01	27.51	27.94
Wrist	14.54	15.12	15.09	15.40	15.56	15.96	16.22	16.41
Thigh,Max	48.64	50.41	53.58	53.62	56.17	57.52	60.33	60.24
Thigh,Mid	43.68	44.19	47.25	47.72	49.45	50.44	52.60	52.68
Knee	33.11	34.14	35.03	35.11	36.22	37.11	38.26	39.41
Calf	29.21	31.52	32.75	32.31	33.69	34.55	36.15	36.26
Ankle	21.71	22.43	22.94	22.99	23.29	23.87	24.14	24.16
Vertical Trunk	142.11	144.93	146.63	147.83	150.75	153.65	156.73	159.57
Total Crotch Length	66.43	67.10	69.09	70.13	71.27	73.31	75.00	76.33
VERTICAL MEASUREMENTS IN CENTIMETERS								
Height	154.96	156.86	157.56	158.75	159.90	161.06	162.16	164.73
Cervical Height	134.89	136.93	137.62	138.88	140.03	141.71	143.01	144.98
Waist Height Back	96.18	98.02	98.40	99.21	99.98	101.03	102.17	103.61
Abdominal Height	88.57	91.00	91.71	91.90	92.52	93.57	94.35	95.61
Waist to Hip Hgt.	17.29	17.48	17.83	17.91	17.57	18.14	18.65	19.32
Hip Height	80.93	82.17	83.00	83.53	84.12	84.75	84.93	86.36
Inseam	70.50	72.57	72.47	72.72	73.24	73.47	73.86	74.84
Knee Height	42.04	42.93	42.67	43.14	43.62	43.92	44.12	45.13
Ankle Height	5.79	6.93	6.14	6.35	6.44	6.52	6.56	6.76
Waist Length, Front	32.00	32.57	33.30	33.26	34.01	34.62	35.06	35.83
Cervical to CF Waist	47.50	47.52	48.74	48.95	50.37	51.12	51.62	53.22
Waist Length, Back	38.71	38.91	39.07	39.68	40.09	40.61	40.93	41.37
WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS								
Cross back shoulder**	37.18	37.14	37.96	38.27	38.93	39.81	39.73	40.87
Back Width	35.57	35.86	36.06	36.35	36.89	38.32	39.32	39.30
Chest Width	33.97	35.55	35.05	35.12	35.92	36.32	37.03	37.72
Shoulder Length	12.36	12.76	12.87	12.84	12.92	13.19	13.24	13.40
Shoulder slope *	21.61	22.57	21.04	22.54	22.08	21.95	21.31	21.18
Shoulder to wrist	56.14	56.83	56.66	57.51	58.23	58.81	58.95	60.26
Shoulder to elbow	32.68	32.79	32.40	33.24	33.59	33.96	33.94	34.62
Underarm to wrist	42.14	41.91	42.58	42.45	42.60	43.34	43.61	43.69
Bust point to BP	16.54	17.55	17.97	18.20	18.65	19.36	19.74	20.61
Neck to bust point	26.93	27.10	26.92	27.47	28.28	28.88	28.86	29.98
Armscye depth	16.11	17.67	17.71	17.92	18.00	18.50	18.78	19.35
Armscye to waist	19.00	18.38	18.08	18.53	18.70	18.92	19.31	19.03
Weight (kgs)	43.09	46.92	50.87	52.47	57.21	61.64	66.20	75.35

*Shoulder slope figures indicated as *degrees of slope.*

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 sizes. Hang tag numbers currently used in US Apparel
Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 1 Continued

SIZE, NUMBER OF SUBJECTS								
LOCATION	J3 N=14	J5 N=21	J7 N=68	J9 N=115	J11 N=202	J13 N=271	J15 N=90	J17 N=95
GIRTH MEASUREMENTS IN INCHES								
Bust	29.84	31.43	32.52	33.60	35.02	36.54	37.28	38.95
Bust,Arc	15.65	17.19	17.38	18.01	18.83	19.70	20.32	21.1
Waist	26.20	27.28	28.21	29.26	30.44	32.05	32.95	34.64
Waist Arc	13.62	14.59	15.12	15.54	16.15	17.15	17.73	18.64
Abdominal Extension	32.75	33.54	34.61	35.64	37.12	38.25	39.72	40.77
Abdominal Arc	17.00	17.63	18.03	18.62	19.40	20.30	20.99	21.67
Hip	34.20	35.18	36.39	36.81	38.18	39.19	40.50	41.22
Hip Arc Back	17.35	17.81	18.44	18.59	19.29	19.63	20.33	20.46
Sitting Spread	35.19	36.98	37.98	38.64	40.13	41.25	42.73	43.49
Midneck	12.39	12.36	12.51	12.68	12.89	13.22	13.34	13.68
Neck Base **	14.52	14.99	15.44	15.10	15.32	15.66	16.00	16.08
Armscye	15.19	15.96	15.83	16.32	16.70	17.11	17.59	18.16
Upper arm	9.79	10.15	10.72	11.05	11.57	11.99	12.36	12.76
Elbow	9.31	9.74	9.74	10.02	10.25	10.63	10.83	11
Wrist	5.72	5.95	5.94	6.06	6.13	6.28	6.38	6.46
Thigh,Max	19.15	19.84	21.09	21.11	22.11	22.64	23.75	23.72
Thigh,Mid	17.20	17.40	18.60	18.79	19.47	19.86	20.71	20.74
Knee	13.03	13.44	13.79	13.82	14.26	14.61	15.06	15.51
Calf	11.50	12.41	12.89	12.72	13.26	13.60	14.23	14.27
Ankle	8.55	8.83	9.03	9.05	9.17	9.40	9.51	9.51
Vertical Trunk	55.95	57.06	57.73	58.20	59.35	60.49	61.71	62.82
Total Crotch Length	26.15	26.42	27.20	27.61	28.06	28.86	29.53	30.05
VERTICAL MEASUREMENTS IN INCHES								
Height	61.01	61.75	62.03	62.50	62.95	63.41	63.84	64.85
Cervical Height	53.11	53.91	54.18	54.68	55.13	55.79	56.30	57.08
Waist Height Back	37.87	38.59	38.74	39.06	39.36	39.78	40.22	40.79
Abdominal Height	34.87	35.83	36.11	36.18	36.43	36.84	37.15	37.64
Waist to Hip Hgt.	6.81	6.88	7.02	7.05	6.92	7.14	7.34	7.61
Hip Height	31.86	32.35	32.68	32.89	33.12	33.36	33.44	34
Inseam	27.76	28.57	28.53	28.63	28.84	28.92	29.08	29.47
Knee Height	16.55	16.90	16.80	16.98	17.17	17.29	17.37	17.77
Ankle Height	2.28	2.73	2.42	2.50	2.53	2.57	2.58	2.66
Waist Length, Front	12.60	12.82	13.11	13.09	13.39	13.63	13.80	14.11
Cervical to CF Waist	18.70	18.71	19.19	19.27	19.83	20.13	20.32	20.95
Waist Length, Back	15.24	15.32	15.38	15.62	15.78	15.99	16.12	16.29
WIDTH AND LENGTH MEASUREMENTS IN INCHES								
Cross back shoulder **	14.64	14.62	14.95	15.07	15.33	15.67	15.64	16.09
Back Width	14.00	14.12	14.20	14.31	14.52	15.09	15.48	15.47
Chest Width	13.37	14.00	13.80	13.83	14.14	14.30	14.58	14.85
Shoulder Length	4.86	5.02	5.07	5.06	5.09	5.19	5.21	5.27
Shoulder slope *	21.61	22.57	21.04	22.54	22.08	21.95	21.31	21.18
Shoulder to wrist	22.10	22.38	22.31	22.64	22.93	23.15	23.21	23.72
Shoulder to elbow	12.87	12.91	12.76	13.09	13.23	13.37	13.36	13.63
Underarm to wrist	16.59	16.50	16.76	16.71	16.77	17.06	17.17	17.2
Bust point to BP	6.51	6.91	7.08	7.17	7.34	7.62	7.77	8.11
Neck to bust point	10.60	10.67	10.60	10.82	11.13	11.37	11.36	11.8
Armscye depth	6.34	6.96	6.97	7.05	7.09	7.28	7.39	7.62
Armscye to waist	7.48	7.24	7.12	7.30	7.36	7.45	7.60	7.49
Weight (lbs)	95.00	103.43	112.14	115.68	126.13	135.89	145.93	155.1

*Shoulder slope figures indicated as "degrees of slope."

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 2 Women 55+ of Junior Petite Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	JP3 N=7	JP5 N=22	JP7 N=37	JP9 N=73	JP11 N=142	JP13 N=98	JP15 N=67
GIRTH MEASUREMENTS IN INCHES							
Bust	33.58	33.25	33.83	35.42	35.93	37.66	37.29
Bust,Arc	18.25	17.64	18.21	18.91	19.35	20.16	20.12
Waist	29.61	29.52	29.61	31.29	31.61	33.49	33.21
Waist Arc	15.64	15.26	15.67	16.61	16.75	17.97	17.93
Abdominal Extension	35.41	35.11	35.43	37.14	37.60	39.29	39.79
Abdominal Arc	18.50	19.17	18.59	19.47	19.70	20.81	21.14
Hip	36.05	35.99	36.09	37.50	37.90	39.50	40.53
Hip Arc Back	18.25	18.27	18.07	18.90	19.29	19.90	20.36
Sitting Spread	37.91	38.13	37.90	39.85	40.09	42.03	42.81
Midneck	12.85	12.71	12.54	13.00	13.06	13.43	13.49
Neck Base **	14.79	15.52	14.84	15.29	15.42	15.86	15.86
Armscye	16.76	15.86	16.08	16.43	16.49	17.16	17.40
Upper arm	11.02	10.38	10.82	11.42	11.69	12.29	12.46
Elbow	9.70	9.65	9.88	10.10	10.13	10.60	10.65
Wrist	5.96	5.84	5.83	6.03	6.12	6.24	6.35
Thigh,Max	20.64	19.93	20.36	21.11	21.75	22.58	23.52
Thigh,Mid	17.86	17.90	17.68	18.54	19.12	19.84	21.01
Knee	13.08	13.79	13.58	13.91	14.03	14.61	15.10
Calf	12.35	12.51	12.36	12.88	13.11	13.65	14.10
Ankle	8.63	8.57	8.79	8.92	8.92	9.14	9.44
Vertical Trunk	56.24	55.98	56.46	57.26	58.06	59.26	60.10
Total Crotch Length	27.06	26.81	26.78	27.62	27.91	28.61	29.38
VERTICAL MEASUREMENTS IN INCHES							
Height	56.75	57.16	58.03	58.33	59.12	59.51	60.52
Cervical Height	50.39	50.76	50.97	51.66	52.17	52.46	53.70
Waist Height Back	35.94	36.04	36.08	36.62	37.10	37.28	38.34
Abdominal Height	33.01	33.30	33.26	33.49	34.01	34.22	35.28
Waist to Hip Hgt.	6.92	7.30	6.76	7.09	6.99	7.16	7.20
Hip Height	29.22	29.72	30.05	30.09	30.78	30.68	31.69
Inseam	25.56	26.08	26.36	26.14	26.65	26.74	27.57
Knee Height	16.14	15.66	15.51	15.82	16.10	16.08	16.47
Ankle Height	2.31	2.40	2.31	2.39	2.49	2.44	2.46
Waist Length,Front	11.90	11.78	12.26	12.49	12.70	13.13	13.14
Cervical to CF Waist	18.31	18.50	18.72	18.84	19.15	19.75	19.64
Waist Length,Back	14.45	14.72	14.89	15.10	15.08	15.18	15.38
WIDTH AND LENGTH MEASUREMENTS IN INCHES							
Cross back shoulder**	14.57	14.35	14.59	14.88	15.21	15.40	15.35
Back Width	13.33	14.15	14.09	14.48	14.83	15.12	15.38
Chest Width	13.75	13.23	13.48	13.66	14.03	14.36	14.55
Shoulder Length	4.89	4.63	4.87	4.91	5.02	5.07	4.92
Shoulder slope *	22.71	24.02	20.62	20.98	22.23	22.26	22.04
Shoulder to wrist	21.43	21.70	21.34	21.72	21.85	22.06	22.52
Shoulder to elbow	12.20	12.73	12.31	12.39	12.54	12.65	12.89
Underarm to wrist	15.27	16.36	15.68	15.70	16.21	16.04	16.56
Bust point to BP	7.11	7.22	7.19	7.45	7.57	7.83	7.74
Neck to bust point	10.66	10.88	10.81	11.10	11.22	11.46	11.37
Armscye depth	7.11	6.75	6.72	6.98	6.93	7.10	7.27
Armscye to waist	6.16	6.61	6.70	6.64	6.91	7.03	7.16
Weight (lbs)	107.71	105.75	108.47	118.06	122.19	133.90	140.37

* Shoulder slope figures indicated as *degrees of slope.*

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hangtag numbers currently used in US Apparel

Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 2 Continued

SIZE, NUMBER OF SUBJECTS

LOCATION	JP3 N=7	JP5 N=22	JP7 N=37	JP9 N=73	JP11 N=142	JP13 N=98	JP15 N=67
GIRTH MEASUREMENTS IN CENTIMETERS							
Bust	85.29	84.46	85.93	89.96	91.26	95.67	94.72
Bust,Arc	46.36	44.80	46.26	48.03	49.14	51.20	51.11
Waist	75.21	74.98	75.20	79.49	80.29	85.06	84.37
Waist Arc	39.71	38.77	39.80	42.18	42.56	45.65	45.55
Abdominal Extension	89.93	89.18	90.00	94.34	95.51	99.79	101.06
Abdominal Arc	47.00	48.68	47.23	49.47	50.03	52.85	53.69
Hip	91.57	91.41	91.68	95.24	96.26	100.34	102.96
Hip Arc Back	46.36	46.41	45.91	48.00	48.99	50.55	51.72
Sitting Spread	96.29	96.84	96.26	101.21	101.82	106.75	108.74
Midneck	32.64	32.30	31.85	33.03	33.18	34.11	34.25
Neck Base **	37.57	39.43	37.70	38.85	39.17	40.29	40.28
Armseye	42.57	40.30	40.85	41.73	41.89	43.58	44.19
Upper arm	28.00	26.36	27.49	29.01	29.70	31.22	31.64
Elbow	24.64	24.50	25.10	25.66	25.74	26.92	27.06
Wrist	15.14	14.84	14.81	15.32	15.54	15.84	16.13
Thigh,Max	52.43	50.61	51.70	53.62	55.25	57.36	59.74
Thigh,Mid	45.36	45.46	44.92	47.09	48.55	50.40	53.36
Knee	33.21	35.02	34.49	35.32	35.63	37.10	38.36
Calf	31.36	31.77	31.41	32.71	33.30	34.67	35.81
Ankle	21.93	21.77	22.34	22.66	22.67	23.22	23.99
Vertical Trunk	142.86	142.18	143.42	145.43	147.48	150.52	152.66
Total Crotch Length	68.73	68.09	68.01	70.15	70.88	72.67	74.63
VERTICAL MEASUREMENTS IN CENTIMETERS							
Height	144.14	145.18	147.39	148.16	150.18	151.16	153.73
Cervical Height	128.00	128.93	129.46	131.23	132.52	133.25	136.40
Waist Height Back	91.29	91.55	91.64	93.03	94.22	94.68	97.40
Abdominal Height	83.86	84.59	84.49	85.07	86.38	86.91	89.60
Waist to Hip Hgt.	17.57	18.55	17.18	18.02	17.75	18.18	18.29
Hip Height	74.21	75.48	76.32	76.44	78.18	77.92	80.49
Inseam	64.93	66.25	66.95	66.40	67.70	67.92	70.03
Knee Height	41.00	39.77	39.41	40.17	40.89	40.83	41.83
Ankle Height	5.86	6.09	5.87	6.08	6.31	6.20	6.25
Waist Length,Front	30.21	29.93	31.15	31.72	32.25	33.34	33.37
Cervical to CF Waist	46.50	47.00	47.54	47.86	48.65	50.15	49.87
Waist Length,Back	36.71	37.39	37.82	38.34	38.30	38.55	39.06
WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS							
Cross back shoulder**	37.07	36.46	37.05	37.80	38.63	39.12	38.99
Back Width	33.86	35.93	35.80	36.78	37.66	38.42	39.06
Chest Width	34.93	33.61	34.23	34.69	35.65	36.48	36.95
Shoulder Length	12.43	11.75	12.37	12.47	12.74	12.87	12.49
Shoulder slope *	22.71	24.02	20.62	20.99	22.23	22.25	22.04
Shoulder to wrist	54.43	55.11	54.20	55.18	55.50	56.04	57.19
Shoulder to elbow	31.00	32.34	31.27	31.46	31.86	32.13	32.73
Underarm to wrist	38.79	41.55	39.82	39.88	41.17	40.73	42.06
Bust point to BP	18.07	18.34	18.26	18.93	19.24	19.90	19.66
Neck to bust point	27.07	27.64	27.45	28.19	28.50	29.11	28.88
Armseye depth	18.07	17.14	17.08	17.74	17.59	18.05	18.47
Armseye to waist	15.64	16.80	17.01	16.86	17.56	17.84	18.19
Weight (kg)	48.86	48.43	49.20	53.56	55.43	60.74	63.67

* Shoulder slope figures indicated as *degrees of slope.*

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hangtag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 3 Woment 55+ of Miss Petite Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	MP8 N=18	MP10 N=69	MP12 N=128	MP14 N=222	MP16 N=302	MP18 N=370
GIRTH MEASUREMENTS IN INCHES						
Bust	31.45	32.79	34.36	35.74	37.57	39.56
Bust,Arc	16.60	17.53	18.39	19.21	20.26	21.37
Waist	27.55	28.77	29.89	31.18	32.98	35.19
Waist Arc	15.29	15.14	15.76	16.58	17.68	18.92
Abdominal Extension	33.57	34.91	36.34	37.53	39.16	41.35
Abdominal Arc	17.86	18.28	18.96	19.69	20.69	21.94
Hip	34.85	36.01	37.28	38.44	39.71	41.55
Hip Arc Back	17.59	18.32	18.96	19.33	19.86	20.76
Sitting Spread	36.34	38.19	39.25	40.46	41.93	44.07
Midneck	12.20	12.58	12.76	13.11	13.39	13.91
Neck Base **	14.87	15.09	15.19	15.68	15.7	16.32
Armscye	15.62	16.08	16.44	16.74	17.18	18.09
Upper arm	10.11	10.62	11.10	11.73	12.29	12.96
Elbow	9.66	9.73	10.01	10.30	10.64	11.01
Wrist	5.68	6.00	6.08	6.21	6.28	6.46
Thigh,Max	19.88	20.66	21.40	22.12	22.94	23.88
Thigh,Mid	17.69	18.15	18.83	19.57	20.03	20.90
Knee	13.34	13.71	13.85	14.39	14.81	15.27
Calf	12.36	12.70	12.90	13.42	13.80	14.30
Ankle	8.72	9.02	8.97	9.05	9.33	9.50
Vertical Trunk	55.48	56.89	58.08	59.17	60.41	62.30
Total Crotch Length	26.10	26.91	27.40	28.15	28.84	30.07
VERTICAL MEASUREMENTS IN INCHES						
Height	59.63	60.41	60.99	61.47	62.02	62.57
Cervical Height	52.41	52.96	53.44	53.57	54.71	55.39
Waist Height Back	37.35	37.70	38.08	38.33	38.83	39.42
Abdominal Height	34.58	34.85	35.11	35.43	35.90	36.26
Waist to Hip Hgt.	6.98	6.83	6.97	6.97	7.09	7.45
Hip Height	31.26	31.50	31.79	32.09	32.44	32.51
Inseam	27.73	27.64	27.76	27.79	28.04	28.20
Knee Height	16.27	16.39	16.57	16.56	16.86	17.02
Ankle Height	2.55	2.45	2.52	2.50	2.54	2.58
Waist Length, Front	12.42	12.51	13.03	13.38	13.58	13.87
Cervical to CF Waist	18.44	18.91	19.27	19.80	20.11	20.59
Waist Length,Back	15.06	15.26	15.36	15.53	15.85	15.97
WIDTH AND LENGTH MEASUREMENTS IN INCHES						
Cross Back Shld.**	14.4	14.85	15.1	15.37	15.58	16.04
Back Width	13.88	14.01	14.76	14.97	15.23	15.95
Chest Width	13.29	13.45	13.81	14.22	14.41	14.97
Shoulder Length	4.95	4.91	4.98	5.07	5.13	5.21
Shoulder slope*	21.12	20.41	21.12	22.09	21.82	20.94
Shoulder to wrist	21.69	21.94	22.27	22.33	22.74	23.01
Shoulder to elbow	12.58	12.71	12.81	12.82	13.06	13.21
Underarm to wrist	16.11	16.23	16.43	16.44	16.64	16.75
Bust point to BP	6.96	7.06	7.41	7.55	7.83	8.25
Neck to bust point	10.12	10.81	10.93	11.20	11.49	11.75
Armscye depth	7.02	6.99	6.95	7.08	7.23	7.49
Armscye to waist	6.64	7.16	7.10	7.26	7.46	7.39
Weight (lbs)	99.81	109.03	117.29	127.20	138.49	153.00

* Shoulder slope figures indicated as "degrees of slope."

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 3 Continued

SIZE, NUMBER OF SUBJECTS

LOCATION	MP8 N= 18	MP10 N=69	MP12 N= 128	MP14 N=222	MP16 N=302	MP18 N=370
GIRTH MEASUREMENTS IN CENTIMETERS						
Bust	79.89	83.28	87.28	90.79	95.42	100.48
Bust,Arc	42.17	44.52	46.70	48.80	51.45	54.28
Waist	69.97	73.08	75.92	79.20	83.76	89.38
Waist Arc	38.83	38.46	40.02	42.11	44.91	48.06
Abdominal Extension	85.28	88.67	92.31	95.32	99.46	105.02
Abdominal Arc	45.36	46.44	48.15	50.03	52.56	55.72
Hip	88.53	91.46	94.69	97.64	100.86	105.54
Hip Arc Back	44.67	46.53	48.15	49.09	50.44	52.74
Sitting Spread	92.31	97.01	99.70	102.77	106.51	111.93
Midneck	31.00	31.95	32.42	33.29	34.00	35.33
Neck Base **	37.78	38.34	38.59	39.83	38.87	41.45
Armseye	39.67	40.84	41.75	42.53	43.64	45.94
Upper arm	25.67	26.97	28.19	29.80	31.22	32.91
Elbow	24.53	24.71	25.42	26.17	27.03	27.97
Wrist	14.42	15.24	15.44	15.79	15.95	16.41
Thigh,Max	50.50	52.48	54.36	56.18	58.28	60.66
Thigh,Mid	44.94	46.11	47.82	49.71	50.87	53.10
Knee	33.89	34.83	35.17	36.56	37.63	38.78
Calf	31.39	32.25	32.77	34.09	35.05	36.31
Ankle	22.14	22.90	22.79	22.99	23.70	24.14
Vertical Trunk	140.92	144.49	147.51	150.30	153.45	158.25
Total Crotch Length	66.31	68.35	69.61	71.49	73.24	76.38

VERTICAL MEASUREMENTS IN CENTIMETERS

Height	151.46	153.45	154.93	156.14	157.54	158.94
Cervical Height	133.11	134.51	135.75	136.08	138.95	140.68
Waist Height Back	94.86	95.75	96.73	97.37	98.62	100.12
Abdominal Height	87.83	88.51	89.17	90.00	91.19	92.11
Waist to Hip Hgt.	17.72	17.35	17.72	17.69	18.01	18.93
Hip Height	79.39	80.01	80.76	81.50	82.41	82.59
Inseam	70.44	70.22	70.50	70.59	71.21	71.63
Knee Height	41.33	41.63	42.08	42.05	42.82	43.24
Ankle Height	6.47	6.23	6.41	6.36	6.46	6.55
Waist Length, Front	31.56	31.78	33.09	33.98	34.49	35.23
Cervical to CF Waist	46.83	48.03	48.94	50.29	51.07	52.30
Waist Length,Back	38.25	38.77	39.02	39.45	40.25	40.56

WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS

Cross Back Shld.**	36.58	37.71	38.34	39.04	39.57	14.74
Back Width	35.25	35.59	37.48	38.04	38.67	40.51
Chest Width	33.75	34.15	35.08	36.12	36.59	38.03
Shoulder Length	12.58	12.47	12.64	12.89	13.04	13.24
Shoulder slope*	21.12	20.41	21.12	22.09	21.82	20.94
Shoulder to wrist	55.08	55.73	56.56	56.73	57.75	58.45
Shoulder to elbow	31.94	32.29	32.55	32.57	33.17	33.56
Underarm to wrist	40.92	41.22	41.74	41.76	42.28	42.56
Bust point to BP	17.67	17.93	18.82	19.18	19.88	20.95
Neck to bust point	25.69	27.46	27.77	28.45	29.18	29.85
Armseye depth	17.83	17.75	17.65	17.99	18.37	19.04
Armseye to waist	16.86	18.17	18.03	18.44	18.94	18.77
Weight (kg)	45.28	49.46	53.20	57.70	62.82	69.40

* Shoulder slope figures indicated as *degrees of slope.*

**Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 4 Women 55+ of Misses Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	M6 N=15	M8 N=41	M10 N=85	M12 N=183	M14 N=207	M16 N=220	M18 N=217	M20 N=138	M22 N= 96
GIRTH MEASUREMENTS IN INCHES									
Bust	30.66	31.45	32.60	34.18	35.68	37.22	39.13	41.01	43.23
Bust Arc	16.38	17.11	17.31	18.32	19.34	20.14	21.14	21.93	23.00
Waist	26.64	27.22	28.40	29.81	31.06	32.57	34.48	36.97	39.32
Waist Arc	14.12	14.47	15.06	15.83	16.54	17.42	18.58	20.05	21.10
Abdominal Extension	33.78	33.83	34.75	36.43	37.62	39.07	41.21	43.49	45.54
Abdominal Arc	17.69	17.74	18.29	19.15	19.91	20.71	21.91	23.08	23.96
Hip	35.67	35.51	36.40	37.79	38.92	40.03	41.61	43.46	44.82
Hip Arc Back	18.18	17.88	18.46	19.09	19.58	20.02	20.79	21.55	22.57
Sitting Spread	37.14	36.82	38.02	14.97	40.83	41.96	43.79	45.86	47.77
Midneck	11.99	12.27	12.40	12.82	13.16	13.50	13.83	14.50	14.80
Neck Base **	14.96	15.13	15.33	15.49	15.88	16.30	16.53	17.17	17.22
Armhole	15.43	15.85	16.43	16.58	17.22	17.65	18.23	18.87	19.53
Upper arm	10.08	10.26	10.66	11.27	11.73	12.27	12.85	13.64	14.08
Elbow	9.51	9.53	9.93	10.18	10.51	10.70	11.08	11.60	11.79
Wrist	5.92	5.90	5.98	6.12	6.24	6.36	6.52	6.70	6.85
Thigh,Max	20.17	20.21	21.01	21.99	22.52	23.10	23.92	25.05	25.64
Thigh,Mid	17.51	17.66	18.68	19.34	19.82	20.36	20.93	21.87	22.42
Knee	13.43	13.43	13.86	14.28	14.56	14.94	15.44	15.98	16.37
Calf	12.32	12.62	12.76	13.25	13.58	13.84	14.43	14.86	15.23
Ankle	9.09	9.15	9.18	9.25	9.50	9.52	9.75	10.01	10.18
Vertical Trunk	57.94	57.61	58.59	59.54	61.17	62.07	63.53	65.14	66.64
Total Crotch Length	27.72	27.17	27.34	28.02	29.04	29.38	30.55	30.20	31.85
VERTICAL MEASUREMENTS IN INCHES									
Height	62.70	63.42	64.00	65.20	65.00	65.59	66.10	66.42	67.08
Cervical Height	55.11	55.26	55.79	56.37	57.09	57.64	58.28	58.76	59.42
Waist Height Back	39.38	39.54	39.80	40.43	40.84	41.17	41.53	41.96	42.45
Abdominal Height	36.22	36.48	36.99	37.66	37.82	38.25	38.48	38.49	39.00
Waist to Hip Hgt.	7.40	7.07	6.85	7.02	7.16	7.33	7.76	7.75	8.13
Hip Height	32.57	33.27	33.70	34.15	34.34	34.63	34.61	34.78	34.96
Inseam	28.91	29.19	29.52	29.76	29.82	30.19	30.18	30.23	30.65
Knee Height	16.88	17.18	17.31	17.59	17.76	17.99	18.09	18.10	18.48
Ankle Height	2.49	2.55	2.58	2.59	2.68	2.73	2.71	2.72	2.84
Waist Length, Front	12.94	13.09	13.28	13.44	13.69	13.96	14.17	14.56	14.88
Cervical to CF Waist	19.15	19.20	19.52	19.83	20.27	20.67	20.97	21.56	22.11
Waist Length,Back	15.72	15.71	15.98	15.95	16.24	16.47	16.57	16.80	16.98
WIDTH AND LENGTH MEASUREMENTS IN INCHES									
Cross back shoulder **	14.62	14.80	15.18	15.45	15.84	16.01	16.28	16.66	17.19
Back Width	14.21	14.20	14.28	14.57	14.86	15.44	15.95	16.62	17.32
Chest Width	13.54	13.53	13.52	14.00	14.23	14.56	15.02	15.75	16.00
Shoulder Length	4.78	5.09	5.08	5.25	5.15	5.31	5.31	5.39	5.47
Shoulder slope *	21.40	22.02	22.34	21.98	22.54	22.51	21.76	20.51	20.86
Shoulder to wrist	22.41	22.70	23.02	23.23	23.54	23.86	24.08	24.24	24.73
Shoulder to elbow	12.68	12.84	13.42	13.46	13.59	13.71	13.87	13.99	14.21
Underarm to wrist	17.03	17.05	17.09	17.19	17.24	17.59	17.54	17.71	17.75
Bust point to BP	6.67	6.82	7.03	7.29	7.51	7.73	8.24	8.64	8.84
Neck to bust point	10.43	10.62	10.68	11.02	11.40	11.68	11.92	12.09	12.34
Armhole depth	6.86	7.09	6.98	7.09	7.22	7.47	7.68	8.06	8.12
Armhole to waist	7.22	7.12	7.30	7.47	7.59	7.71	7.64	7.81	7.77
Weight (lbs)	103.40	107.27	115.09	125.71	134.71	144.64	159.45	174.13	189.68

*Shoulder slope figures indicated as "degrees of slope."

**Measurements not in original PS 42-70 data base.

(1) Subjects measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 4 Continued

SIZE, NUMBER OF SUBJECTS

LOCATION	M6 N=15	M8 N=41	M10 N=85	M12 N=183	M14 N=207	M16 N=220	M18 N=217	M20 N=138	M22 N=96
GIRTH MEASUREMENTS IN CENTIMETERS									
Bust	77.87	79.89	82.80	86.81	90.62	94.53	99.39	104.16	109.80
Bust Arc	41.60	43.45	43.98	46.54	49.12	51.14	53.69	55.71	58.43
Waist	67.67	69.13	72.14	75.71	78.88	82.73	87.57	93.90	99.89
Waist Arc	35.87	36.74	38.26	40.21	42.01	44.24	47.19	50.94	53.59
Abdominal Extension	85.80	85.93	88.27	92.53	95.56	99.23	104.68	110.46	115.67
Abdominal Arc	44.93	45.06	46.46	48.63	50.58	52.61	55.66	58.61	60.87
Hip	90.60	90.18	92.45	96.00	98.85	101.67	105.70	110.38	113.85
Hip Arc Back	46.17	45.43	46.88	48.49	49.74	50.86	52.82	54.74	57.34
Sitting Spread	94.33	93.52	96.58	100.78	103.70	106.58	111.22	116.49	121.33
Midneck	30.47	31.17	31.51	32.57	33.44	34.28	35.12	36.83	37.59
Neck Base **	38.00	38.44	38.95	39.35	40.34	41.39	41.99	43.61	44.38
Armhole	39.20	40.26	41.73	42.12	43.73	44.84	46.30	47.93	49.59
Upper arm	25.60	26.06	27.08	28.63	29.80	31.18	32.64	34.64	35.76
Elbow	24.17	24.20	25.21	25.85	26.71	27.18	28.14	29.48	29.94
Wrist	15.03	14.99	15.18	15.54	15.86	16.16	16.57	17.02	17.41
Thigh, Max	51.23	51.34	53.37	55.86	57.21	58.67	60.77	63.63	65.12
Thigh, Mid	44.47	44.87	47.45	49.12	50.35	51.73	53.16	55.55	56.96
Knee	34.10	34.12	35.19	36.27	36.99	37.95	39.22	40.59	41.57
Calf	31.30	32.05	32.42	33.65	34.49	35.17	36.66	37.75	38.69
Ankle	23.10	23.23	23.32	23.49	24.12	24.18	24.78	25.41	25.87
Vertical Trunk	147.17	146.32	148.83	151.23	155.37	157.66	161.37	165.46	169.26
Total Crotch Length	70.40	69.00	69.44	71.18	73.76	74.63	77.59	76.70	80.91
VERTICAL MEASUREMENTS IN CENTIMETERS									
Height	159.27	161.09	162.57	163.63	165.09	166.59	167.89	168.70	170.38
Cervical Height	139.97	140.37	141.69	143.19	145.01	146.40	148.03	149.24	150.92
Waist Height Back	100.03	100.43	101.08	102.68	103.72	104.58	105.50	106.58	107.83
Abdominal Height	92.00	92.66	93.95	95.66	96.07	97.15	97.73	97.76	99.07
Waist to Hip Hgt.	18.80	17.96	17.41	17.84	18.19	18.63	19.70	19.69	20.66
Hip Height	82.73	84.50	85.61	86.75	87.21	87.95	87.92	88.35	88.79
Inseam	73.43	74.13	74.97	75.59	75.74	76.69	76.65	76.78	77.85
Knee Height	42.87	43.63	43.97	44.69	45.10	45.70	45.96	45.97	46.93
Ankle Height	6.33	6.48	6.54	6.59	6.81	6.93	6.87	6.92	7.22
Waist Length, Front	32.87	33.26	33.72	34.13	34.78	35.46	36.00	36.99	37.81
Cervical to CF Waist	48.63	48.78	49.57	50.36	51.50	52.51	53.28	54.76	56.16
Waist Length, Back	39.93	39.92	40.60	40.51	41.26	41.84	42.09	42.66	43.13
WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS									
Cross back shoulder **	37.13	37.59	38.55	39.24	39.60	40.67	41.35	42.32	43.67
Back Width	36.10	36.06	36.26	37.02	37.76	39.22	40.50	42.21	44.00
Chest Width	34.40	34.37	34.33	35.57	36.15	36.97	38.16	39.99	40.65
Shoulder Length	12.13	12.94	12.90	13.33	13.09	13.49	13.48	13.69	13.90
Shoulder slope *	21.40	22.02	22.34	21.98	22.54	22.51	21.76	20.51	20.86
Shoulder to wrist	56.93	57.65	58.48	59.01	59.79	60.62	61.16	61.56	62.82
Shoulder to elbow	32.20	32.62	34.09	34.19	34.51	34.83	35.24	35.53	36.10
Underarm to wrist	43.27	43.31	43.42	43.68	43.78	44.68	44.56	44.98	45.09
Bust point to BP	16.93	17.32	17.85	18.51	19.08	19.64	20.93	21.96	22.46
Neck to bust point	26.50	26.96	27.13	28.00	28.95	29.66	30.27	30.71	31.35
Armhole depth	17.43	18.00	17.73	18.01	18.33	18.99	19.52	20.47	20.63
Armhole to waist	18.33	18.09	18.54	18.97	19.28	19.58	19.40	19.84	19.72
Weight (kg)	46.90	48.66	52.21	57.02	61.11	65.61	73.33	78.99	86.04

*Shoulder slope figures indicated as *degrees of slope.*

**Measurements not in original PS 42-70 data base.

(1) Subjects measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 5 Woment 55+ of Misses Tall Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	MT10 N=81	MT12 N=64	MT14 N=74	MT16 N=73	MT18 N=62	MT20 N=26	MT22 N=35
GIRTH MEASUREMENTS IN INCHES							
Bust	33.19	35.48	36.90	38.17	39.94	41.92	44.85
Bust,Arc	17.87	19.13	19.84	20.53	21.54	22.92	24.15
Waist	28.48	30.67	32.30	33.74	35.43	37.83	41.17
Waist Arc	15.24	16.39	17.30	18.09	19.16	20.45	21.99
Abdominal Extension	35.40	37.38	38.95	40.40	42.10	44.04	47.87
Abdominal Arc	18.70	19.76	20.65	21.63	22.39	23.43	25.00
Hip	37.42	38.88	40.08	41.49	42.58	44.18	47.08
Hip Arc Back	18.74	19.37	20.11	20.57	21.08	21.99	23.66
Sitting Spread	38.94	40.70	42.15	43.43	44.90	46.77	50.15
Midneck	12.72	13.08	13.32	13.80	14.28	14.47	15.09
Neck Base **	15.62	15.84	16.15	16.55	17.25	17.22	17.9
Armseye	16.51	17.29	17.76	18.42	19.06	19.69	20.41
Upper arm	10.95	11.57	12.13	12.81	13.26	14.07	14.83
Elbow	10.08	10.37	10.68	11.21	11.49	12.06	12.35
Wrist	6.13	6.23	6.36	6.60	6.66	6.94	7.15
Thigh,Max	21.46	22.35	23.24	24.20	24.61	25.95	27.33
Thigh,Mid	19.21	19.64	20.19	21.54	21.77	22.66	23.80
Knee	14.18	14.65	14.97	15.61	15.72	16.38	17.58
Calf	13.18	13.55	13.89	14.34	14.69	15.22	16.11
Ankle	9.35	9.50	9.72	9.89	9.92	10.11	10.55
Vertical Trunk	60.44	61.61	62.80	64.12	65.53	67.02	69.23
Total Crotch Length	28.19	29.06	29.53	30.60	31.14	32.90	33.41

VERTICAL MEASUREMENTS IN INCHES

Height	66.66	67.26	67.65	68.29	69.03	69.67	69.81
Cervical Height	58.01	58.93	59.43	59.82	60.69	61.36	61.75
Waist Height Back	41.59	42.22	42.72	41.14	43.58	43.95	44.35
Abdominal Height	38.97	39.48	39.79	40.13	40.31	40.19	40.55
Waist to Hip Hgt.	7.08	7.17	7.58	7.87	7.79	8.71	8.59
Hip Height	35.46	35.83	36.04	36.10	36.53	35.83	36.29
Inseam	30.95	31.20	31.55	31.63	31.90	31.47	31.81
Knee Height	18.28	18.31	18.82	18.75	19.12	18.77	19.24
Ankle Height	2.70	2.75	2.84	2.78	2.81	3.01	3.00
Waist Length Front	13.96	13.96	13.94	14.28	14.74	14.86	15.64
Cervical to CF Waist	20.30	20.64	20.77	21.03	21.67	21.82	22.88
Waist Length, Back	16.43	16.71	16.71	16.76	17.10	17.36	17.37

WIDTH AND LENGTH MEASUREMENTS IN INCHES

Cross back shoulder**	15.47	15.86	16.04	16.31	16.71	16.83	17.38
Back Width	14.71	15.40	15.69	15.88	16.21	16.60	17.55
Chest Width	14.37	14.47	14.83	15.42	15.71	15.94	17.04
Shoulder Length	5.15	5.32	5.37	5.43	5.42	5.44	5.48
Shoulder slope *	22.57	22.08	20.57	21.68	19.64	20.60	20.96
Shoulder to wrist	23.92	24.05	24.41	24.85	25.06	25.03	25.62
Shoulder to elbow	13.75	13.95	13.97	14.36	14.40	14.32	14.81
Underarm to wrist	17.61	17.86	18.07	18.14	18.37	18.10	18.01
Bust point to BP	7.13	7.44	7.73	7.89	8.45	8.77	9.28
Neck to bust point	10.93	11.45	11.60	11.60	12.04	12.44	12.74
Armseye depth	7.11	7.48	7.40	7.80	8.04	8.54	8.57
Armseye to waist	7.77	7.94	7.80	7.70	8.05	7.53	7.74
Weight (kg)	124.28	136.82	147.30	159.12	170.83	187.54	218.00

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel

Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 5 Continued

SIZE, NUMBER OF SUBJECTS

LOCATION	MT10 N=81	MT12 N=64	MT14 N=74	MT16 N=73	MT18 N=62	MT20 N=26	MT22 N=35
GIRTH MEASUREMENTS IN CENTIMETERS							
Bust	84.30	90.12	93.72	96.95	101.46	106.48	113.93
Bust,Arc	45.40	48.59	50.40	52.15	54.71	58.21	61.34
Waist	72.35	77.89	82.04	85.70	89.99	96.08	104.57
Waist Arc	38.72	41.64	43.95	45.95	48.66	51.94	55.84
Abdominal Extension	89.92	94.94	98.93	102.61	106.93	111.87	121.59
Abdominal Arc	47.50	50.19	52.46	54.95	56.86	59.52	63.50
Hip	95.05	98.75	101.80	105.38	108.15	112.21	119.59
Hip Arc Back	47.60	49.21	51.08	52.26	53.54	55.87	60.09
Sitting Spread	98.91	103.38	107.06	110.30	114.06	118.79	127.37
Midneck	32.30	33.23	33.84	35.05	36.27	36.75	38.33
Neck Base **	39.67	40.23	41.01	42.03	43.81	43.73	45.47
Armscye	41.94	43.91	45.10	46.79	48.40	50.00	51.84
Upper arm	27.80	29.40	30.80	32.55	33.67	35.73	37.66
Elbow	25.59	26.33	27.13	28.49	29.19	30.64	31.36
Wrist	15.56	15.82	16.15	16.76	16.93	17.64	18.17
Thigh,Max	54.52	56.76	59.02	61.47	62.50	65.92	69.43
Thigh,Mid	48.80	49.90	51.28	54.70	55.30	57.56	60.46
Knee	36.02	37.20	38.02	39.65	39.93	41.60	44.64
Calf	33.47	34.41	35.29	36.43	37.32	38.65	40.91
Ankle	23.76	24.13	24.69	25.13	25.19	25.69	26.80
Vertical Trunk	153.53	156.48	159.51	162.86	166.44	170.23	175.84
Total Crotch Length	71.60	73.81	75.01	77.72	79.10	83.58	84.86

VERTICAL MEASUREMENTS IN CENTIMETERS

Height	169.33	170.83	171.82	173.47	175.34	176.96	177.33
Cervical Height	147.34	149.69	150.95	151.95	154.15	155.85	156.86
Waist Height Back	105.64	107.23	108.50	104.49	110.70	111.64	112.64
Abdominal Height	98.99	100.27	101.07	101.94	102.40	102.08	103.00
Waist to Hip Hgt.	17.99	18.20	19.26	19.99	19.78	22.14	21.83
Hip Height	90.06	91.00	91.55	91.70	92.77	91.00	92.19
Inseam	78.62	79.25	80.13	80.35	81.02	79.92	80.79
Knee Height	46.42	46.51	47.80	47.62	48.56	47.67	48.86
Ankle Height	6.86	6.97	7.20	7.07	7.14	7.65	7.63
Waist Length Front	35.46	35.45	35.41	36.27	37.45	37.75	39.73
Cervical to CF Waist	51.56	52.41	52.75	53.41	55.03	55.42	58.11
Waist Length, Back	41.72	42.45	42.44	42.58	43.44	44.10	44.13

WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS

Cross back shoulder**	39.29	40.29	40.73	41.43	42.44	42.75	44.16
Back Width	37.37	39.12	39.87	40.34	41.19	42.17	44.59
Chest Width	36.51	36.75	37.67	39.17	39.91	40.48	43.27
Shoulder Length	13.09	13.51	13.65	13.80	13.77	13.83	13.93
Shoulder slope *	22.57	22.08	20.57	21.68	19.64	20.60	20.96
Shoulder to wrist	60.76	61.09	61.99	63.12	63.65	63.58	65.09
Shoulder to elbow	34.93	35.43	35.49	36.47	36.57	36.39	37.61
Underarm to wrist	44.72	45.37	45.91	46.08	46.67	45.98	45.76
Bust point to BP	18.10	18.91	19.62	20.04	21.45	22.27	23.57
Neck to bust point	27.77	29.09	29.45	29.47	30.58	31.60	32.37
Armscye depth	18.06	19.01	18.79	19.82	20.42	21.69	21.77
Armscye to waist	19.75	20.16	19.82	19.55	20.44	19.12	19.66
Weight (kg)	56.38	62.06	66.82	72.18	77.49	85.07	98.89

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel

Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 6 Women 55+ of Half-Size Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION:	12.5 N=44	14.5 N=23	16.5 N=27	18.5 N=33	20.5 N=29	22.5 N=16	24.5 N=72	26.5 N=57
GIRTH MEASUREMENTS IN INCHES								
Bust	37.16	39.51	41.17	42.62	43.72	45.79	47.54	49.72
Bust Arc	20.03	21.39	22.08	22.76	23.56	24.44	25.87	26.39
Waist	32.29	34.86	37.01	38.47	39.91	42.01	43.16	45.75
Waist Arc	17.17	18.80	19.91	20.66	21.54	22.62	23.09	24.16
Abdominal Extension	37.98	40.56	42.74	44.33	45.82	48.20	49.57	52.21
Abdominal Arc	20.81	21.53	22.63	23.42	24.25	25.25	25.93	26.94
Hip	38.04	40.31	42.43	43.79	45.33	47.34	49.09	50.70
Hip Arc Back	19.10	20.19	21.11	21.80	22.63	23.73	24.65	25.77
Sitting Spread	39.96	42.78	45.03	46.67	48.51	50.76	52.83	54.94
Midneck	13.20	13.70	14.07	14.42	14.74	15.27	15.58	15.61
Neck Base**	15.63	15.95	16.44	16.86	17.55	17.9	18.08	18.42
Armscye	17.07	17.63	18.16	18.81	19.43	20.05	20.52	21.27
Upper arm	11.84	12.60	13.22	13.82	14.37	15.11	15.47	16.13
Elbow	10.10	10.74	11.14	11.60	11.87	12.33	12.54	13.26
Wrist	6.05	6.37	6.47	6.64	6.79	6.96	7.01	7.17
Thigh, Max	21.34	22.93	23.90	24.66	25.39	26.28	27.08	27.65
Thigh, Mid	18.53	20.09	20.79	21.53	22.15	22.77	27.06	24.40
Knee	13.82	14.71	15.31	15.73	16.45	16.57	17.11	18.06
Calf	12.95	13.86	14.28	14.78	15.30	15.57	16.01	16.86
Ankle	8.89	9.35	9.45	9.69	9.87	10.02	10.34	10.82
Vertical Trunk	58.17	60.50	62.16	63.92	65.14	67.16	68.35	70.51
Total Crotch Length	27.49	28.99	29.93	31.07	31.97	33.00	34.25	35.04
VERTICAL MEASUREMENTS IN INCHES								
Height	59.90	60.16	60.62	61.78	62.58	62.96	63.47	64.00
Cervical Height	52.65	53.36	53.93	54.14	55.80	56.21	56.90	57.36
Waist Height Back	37.24	37.74	38.20	38.94	39.56	39.77	40.42	40.56
Abdominal Height	34.58	34.74	34.90	35.43	35.92	35.81	36.53	36.23
Waist to Hip Hgt.	6.90	7.07	7.38	7.60	7.87	8.02	7.95	8.34
Hip Height	31.12	31.27	31.29	31.77	32.09	32.00	32.70	32.39
Inseam	27.13	27.20	27.07	27.42	27.72	27.63	28.05	27.77
Knee Height	16.23	16.39	16.56	16.77	17.04	17.01	17.28	17.15
Ankle Height	2.51	2.52	2.56	2.58	2.71	2.69	2.67	2.66
Waist Length, Front	13.01	13.67	14.01	14.26	14.49	14.78	14.79	15.42
Cervical to CF Waist	19.55	20.24	20.75	21.29	21.55	22.12	22.45	23.19
Waist Length, Back	15.31	15.61	15.72	16.00	16.25	16.45	16.48	16.80
WIDTH AND LENGTH MEASUREMENTS IN INCHES								
Cross back shoulder**	15.18	15.51	15.98	16.33	16.72	16.89	17.51	17.54
Back Width	14.82	15.65	16.12	16.70	16.94	17.51	18.14	18.83
Chest Width	13.80	14.75	15.10	15.55	15.76	16.19	16.52	17.03
Shoulder Length	5.02	5.11	5.10	5.18	5.24	5.30	5.50	5.34
Shoulder slope *	21.83	21.12	20.31	19.92	20.49	20.09	19.13	20.34
Shoulder to wrist	22.02	22.35	22.60	22.93	23.24	23.53	23.68	24.18
Shoulder to elbow	12.69	12.78	12.93	13.11	13.20	13.48	13.45	13.80
Underarm to wrist	16.12	16.24	16.14	16.43	16.65	16.58	16.52	16.55
Bust point to BP	7.80	8.14	8.53	8.73	9.02	9.19	9.69	9.78
Neck to bust point	11.37	11.73	11.90	12.17	12.44	12.64	13.10	13.36
Armscye depth	7.02	7.27	7.45	7.80	7.94	8.11	8.61	9.03
Armscye to waist	7.18	7.33	7.28	7.29	7.34	7.32	7.30	7.65
Weight	120.15	142.38	156.00	169.33	182.45	198.95	213.92	235.64

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 data base.

TABLE 6 *Continued*

SIZE, NUMBER OF SUBJECTS

LOCATION:	12.5 N=44	14.5 N=23	16.5 N=27	18.5 N=33	20.5 N=29	22.5 N=16	24.5 N=72	26.5 N= 57
GIRTH MEASUREMENTS IN CENTIMETERS								
Bust	94.39	100.34	104.58	108.25	111.06	116.29	120.74	126.29
Bust Arc	50.88	54.33	56.09	57.81	59.85	62.07	65.71	67.04
Waist	82.01	88.55	94.01	97.72	101.36	106.70	109.63	116.21
Waist Arc	43.60	47.75	50.58	52.49	54.72	57.46	58.65	61.37
Abdominal Extension	96.48	103.01	108.57	112.61	116.38	122.42	125.92	132.61
Abdominal Arc	52.86	54.68	57.48	59.48	61.61	64.13	65.87	68.42
Hip	96.63	102.40	107.77	111.23	115.15	120.24	124.68	128.78
Hip Arc Back	48.51	51.27	53.61	55.37	57.48	60.28	62.61	65.45
Sitting Spread	101.49	108.65	114.38	118.53	123.21	128.93	134.19	139.54
Midneck	33.52	34.80	35.75	36.62	37.45	38.79	39.58	39.65
Neck Base**	39.69	40.51	41.75	42.82	44.58	45.48	45.93	46.79
Armseye	43.36	44.78	46.13	47.79	49.34	50.92	52.11	54.03
Upper arm	30.08	32.00	33.57	35.09	36.50	38.38	39.31	40.97
Elbow	25.65	27.29	28.30	29.45	30.16	31.31	31.85	33.68
Wrist	15.37	16.17	16.43	16.87	17.24	17.68	17.80	18.21
Thigh,Max	54.19	58.23	60.69	62.64	64.48	66.76	68.77	70.23
Thigh,Mid	47.07	51.03	52.80	54.69	56.26	57.83	68.74	61.98
Knee	35.09	37.35	38.90	39.95	41.78	42.10	43.47	45.88
Calf	32.89	35.22	36.26	37.53	38.87	39.56	40.65	42.83
Ankle	22.58	23.75	24.01	24.62	25.07	25.46	26.27	27.47
Vertical Trunk	147.75	153.67	157.89	162.35	165.46	170.58	173.60	179.11
Total Crotch Length	69.83	73.64	76.01	78.92	81.21	83.82	86.99	89.00
VERTICAL MEASUREMENTS IN CENTIMETERS								
Height	152.15	152.82	153.98	156.92	158.95	159.93	161.22	162.56
Cervical Height	133.73	135.53	136.98	137.50	141.74	142.78	144.51	145.69
Waist Height Back	94.60	95.85	97.03	98.92	100.48	101.02	102.66	103.03
Abdominal Height	87.84	88.25	88.64	90.00	91.23	90.96	92.79	92.03
Waist to Hip Hgt.	17.52	17.95	18.74	19.30	19.98	20.36	20.19	21.19
Hip Height	79.03	79.43	79.47	80.71	81.51	81.27	83.05	82.28
Inseam	68.91	69.10	68.76	69.64	70.42	70.18	71.26	70.54
Knee Height	41.23	41.64	42.06	42.59	43.27	43.22	43.88	43.56
Ankle Height	6.39	6.40	6.51	6.56	6.88	6.84	6.77	6.75
Waist Length, Front	33.03	34.72	35.58	36.21	36.79	37.54	37.56	39.17
Cervical to CF Waist	49.65	51.42	52.69	54.08	54.75	56.20	57.04	58.90
Waist Length,Back	38.90	39.65	39.94	40.63	41.27	41.78	41.86	42.67
WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS								
Cross back shoulder**	38.545	39.41	40.58	41.49	42.47	42.89	44.47	44.54
Back Width	37.64	39.75	40.94	42.43	43.02	44.47	46.08	47.83
Chest Width	35.05	37.47	38.37	39.51	40.04	41.12	41.95	43.25
Shoulder Length	12.75	12.98	12.95	13.15	13.32	13.47	13.97	13.55
Shoulder slope *	21.83	21.12	20.31	19.92	20.49	20.09	19.13	20.34
Shoulder to wrist	55.92	56.77	57.40	58.23	59.02	59.76	60.15	61.42
Shoulder to elbow	32.23	32.46	32.84	33.29	33.54	34.24	34.17	35.04
Underarm to wrist	40.96	41.25	41.00	41.72	42.30	42.12	41.96	42.03
Bust point to BP	19.81	20.69	21.66	22.17	22.91	23.33	24.63	24.85
Neck to bust point	28.89	29.80	30.22	30.91	31.61	32.11	33.29	33.94
Armseye depth	17.84	18.46	18.93	19.82	20.18	20.59	21.88	22.95
Armseye to waist	18.24	18.62	18.50	18.53	18.66	18.58	18.54	19.42
Weight	54.50	64.59	70.76	76.81	82.76	90.25	97.03	106.89

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel Sizing range from 2 to 4 sizes smaller than the original PS 42-70 data base.



TABLE 7 Woment 55+ of Womens Figure Type

SIZE, NUMBER OF SUBJECTS

LOCATION	W34 N=232	W36 N=237	W38 N=198	W40 N=100	W42 N=55	W44 N=51	W46 N=16	W48 N=9	W50 N=3	W52 N=1
GIRTH MEASUREMENTS IN INCHES										
Bust	38.92	40.59	42.50	44.12	45.85	46.92	49.99	50.98	54.99	58.27
Bust,Arc	20.82	21.80	22.72	23.68	24.54	25.51	26.22	26.40	25.39	29.53
Waist	34.26	36.33	38.45	40.24	41.76	43.52	45.56	49.63	49.02	51.97
Waist Arc	18.26	19.62	20.69	21.60	22.34	23.30	23.65	26.29	24.67	27.95
Abdominal Extension	40.35	42.50	44.31	46.56	47.66	50.42	51.89	54.86	55.12	59.06
Abdominal Arc	21.36	22.67	23.49	24.41	24.99	26.04	26.39	28.19	28.08	30.71
Hip	40.47	42.47	44.13	46.08	46.39	49.98	50.49	53.72	52.82	62.20
Hip Arc Back	20.21	21.13	21.94	23.03	23.16	25.24	24.61	27.23	26.97	29.13
Sitting Spread	42.68	45.16	46.99	49.41	50.14	53.23	54.69	57.35	59.65	67.32
Midneck	13.67	14.18	14.54	14.99	15.30	15.32	16.02	16.47	15.88	17.52
Neck Base **	16.17	16.73	17.15	17.5	17.66	18.01	17.65	18.53	18.86	17.5
Armscye	17.75	18.59	19.07	19.58	20.43	20.54	21.36	22.07	21.52	21.26
Upper arm	12.65	13.35	13.82	14.47	14.93	15.48	15.54	16.58	16.08	16.14
Elbow	10.88	11.30	11.66	12.05	12.44	12.85	12.76	13.50	13.78	12.40
Wrist	6.49	6.58	6.72	6.84	7.06	7.30	7.11	7.46	7.15	7.09
Thigh,Max	23.34	24.31	25.24	26.31	26.13	27.98	27.26	28.54	30.71	29.13
Thigh,Mid	20.33	21.30	21.94	22.85	22.48	24.35	23.62	25.00	26.18	27.17
Knee	14.98	15.60	16.14	16.79	16.82	17.78	17.32	18.44	17.06	20.08
Calf	13.98	14.54	15.08	15.60	15.60	16.46	16.22	16.34	15.88	18.70
Ankle	9.43	9.68	9.90	10.16	10.17	10.63	10.51	10.52	10.37	11.42
Vertical Trunk	61.99	63.66	65.03	66.75	67.98	69.77	70.88	73.05	73.43	75.59
Total Crotch Length	29.49	30.78	31.62	32.72	33.12	33.80	35.25	34.54	36.55	37.80
VERTICAL MEASUREMENTS IN INCHES										
Height	63.92	64.43	64.81	65.27	66.43	66.54	66.77	66.45	65.29	64.37
Cervical Height	56.42	56.87	57.46	58.04	59.23	59.43	59.78	60.08	58.66	57.48
Waist Height Back	40.16	40.66	40.94	41.56	42.34	42.56	42.85	42.17	41.93	39.17
Abdominal Height	37.09	37.35	37.62	37.90	38.34	38.45	38.08	37.58	38.45	36.22
Waist to Hip Hgt.	7.33	7.83	8.07	8.18	8.61	7.99	7.94	8.01	7.87	7.48
Hip Height	33.49	33.40	33.42	33.72	34.19	34.83	34.84	33.62	34.32	32.09
Inseam	29.07	29.08	29.12	29.23	29.92	29.72	29.77	28.76	28.02	25.39
Knee Height	17.48	17.51	17.68	17.82	18.25	18.25	18.42	17.98	17.85	16.54
Ankle Height	2.64	2.61	2.67	2.71	2.73	2.83	2.88	2.78	2.76	2.36
Waist Length Front	14.04	14.24	14.52	15.03	15.27	16.07	15.86	17.37	14.96	15.75
Cervical to CF Waist	20.70	21.18	21.69	22.30	22.67	23.23	23.72	25.13	22.97	23.23
Waist Length,Back	16.23	16.25	16.51	16.50	16.92	16.87	16.92	17.91	16.73	18.31
WIDTH AND LENGTH MEASUREMENTS IN INCHES										
Cross back shoulder**	15.95	16.29	16.62	17.03	17.24	17.4	18.58	18.18	18.18	19.69
Back Width	15.77	16.16	16.67	17.27	17.38	17.69	6.93	19.18	20.08	22.44
Chest Width	14.81	15.26	15.53	16.48	16.10	16.74	17.64	18.22	17.26	16.14
Shoulder Length	5.25	5.22	5.27	5.36	5.49	5.57	5.64	5.73	5.45	6.50
Shoulder slope*	20.93	20.74	20.76	20.42	19.52	20.27	20.19	18.33	18.33	15.00
Shoulder to wrist	23.29	23.72	23.81	23.95	24.57	24.65	24.57	25.46	24.67	22.24
Shoulder to elbow	13.40	13.62	13.61	13.81	14.02	14.08	14.19	14.61	13.98	11.81
Underarm to wrist	17.08	17.11	17.20	17.29	17.58	17.25	17.25	17.21	16.40	16.93
Bust point to BP	8.06	8.38	8.75	9.06	9.50	9.45	10.04	10.32	10.56	11.42
Neck to bust point	11.70	12.03	12.28	12.43	12.80	12.97	13.53	13.36	14.17	16.14
Armscye depth	7.48	7.65	7.84	8.24	8.46	8.59	8.55	9.16	8.53	7.87
Armscye to waist	7.62	7.56	7.54	7.70	7.69	7.82	7.41	8.92	7.28	8.07
Weight (lbs)	148.25	164.47	177.50	194.24	206.30	227.79	233.50	257.89	254.00	285.00

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel

Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



TABLE 7 Continued

SIZE, NUMBER OF SUBJECTS

LOCATION	W34 N=232	W36 N=287	W38 N=198	W40 N= 100	W42 N=55	W44 N=51	W46 N=16	W48 N=9	W50 N=3	W52 N=1
GIRTH MEASUREMENTS IN CENTIMETERS										
Bust	98.87	103.09	107.96	112.08	116.46	119.18	126.97	129.50	139.67	148.00
Bust,Arc	52.88	55.37	57.71	60.16	62.33	64.78	66.59	67.06	64.50	75.00
Waist	87.03	92.28	97.66	102.22	106.07	110.54	115.72	126.06	124.50	132.00
Waist Arc	46.37	49.83	52.56	54.86	56.76	59.18	60.06	66.78	62.67	71.00
Abdominal Extension	102.50	107.95	112.54	118.25	121.06	128.07	131.81	139.33	140.00	150.00
Abdominal Arc	54.25	57.58	59.66	62.00	63.46	66.14	67.03	71.61	71.33	78.00
Hip	102.78	107.87	112.09	117.04	117.84	126.94	128.25	136.44	134.17	158.00
Hip Arc Back	51.33	53.67	55.72	58.50	58.83	64.10	62.50	69.17	68.50	74.00
Sitting Spread	108.40	114.70	119.36	125.50	127.35	135.22	138.91	145.67	151.50	171.00
Midneck	34.72	36.01	36.94	38.09	38.86	38.91	40.69	41.83	40.33	44.50
Neck Base **	41.08	42.49	43.57	44.5	44.86	45.76	44.84	47.06	42.83	44.5
Armscye	45.08	47.21	48.44	49.74	51.89	52.18	54.25	56.06	54.67	54.00
Upper arm	32.13	33.90	35.10	36.75	37.92	39.31	39.47	42.11	40.83	41.00
Elbow	27.63	28.70	29.62	30.60	31.61	32.64	32.41	34.28	35.00	31.50
Wrist	16.48	16.71	17.07	17.39	17.94	18.55	18.06	18.94	18.17	18.00
Thigh,Max	59.29	61.76	64.12	66.83	66.36	71.08	69.25	72.50	78.00	74.00
Thigh,Mid	51.64	54.09	55.72	58.05	57.10	61.84	60.00	63.50	66.50	69.00
Knee	38.06	39.63	40.99	42.65	42.72	45.17	44.00	46.83	43.33	51.00
Calf	35.50	36.93	38.30	39.63	39.64	41.80	41.19	41.50	40.33	47.50
Ankle	23.95	24.60	25.14	25.81	25.84	27.01	26.69	26.72	26.33	29.00
Vertical Trunk	157.44	161.69	165.18	169.53	172.67	177.23	180.03	185.56	186.50	192.00
Total Crotch Length	74.91	78.17	80.33	83.12	84.12	85.84	89.53	87.72	92.83	96.00
VERTICAL MEASUREMENTS IN CENTIMETERS										
Height	162.35	163.66	164.62	165.80	168.73	169.01	169.59	168.78	165.83	163.50
Cervical Height	143.31	144.45	145.94	147.42	150.45	150.95	151.84	152.61	149.00	146.00
Waist Height Back	102.00	103.28	103.99	105.55	107.55	108.10	108.84	107.11	106.50	99.50
Abdominal Height	94.21	94.87	95.54	96.26	97.39	97.66	96.72	95.44	97.67	92.00
Waist to Hip Hgt.	18.62	19.89	20.50	20.77	21.86	20.28	20.16	20.33	20.00	19.00
Hip Height	85.07	84.84	84.89	85.65	86.86	88.47	88.50	85.39	87.17	81.50
Inseam	73.85	73.87	73.96	74.24	76.00	75.49	75.63	73.06	71.17	64.50
Knee Height	44.41	44.48	44.92	45.26	46.35	46.34	46.78	45.67	45.33	42.00
Ankle Height	6.69	6.63	6.79	6.90	6.94	7.19	7.31	7.06	7.00	6.00
Waist Length Front	35.67	36.17	36.87	38.18	38.78	40.81	40.28	44.11	38.00	40.00
Cervical to CF Waist	52.57	53.80	55.08	56.64	57.59	59.01	60.25	63.83	58.33	59.00
Waist Length,Back	41.22	41.28	41.94	41.92	42.97	42.84	42.97	45.50	42.50	46.50
WIDTH AND LENGTH MEASUREMENTS IN CENTIMETERS										
Cross back shoulder**	40.51	41.39	42.21	43.26	43.79	44.2	44.72	46.17	46.17	50
Back Width	40.06	41.05	42.35	43.86	44.15	44.94	47.59	48.72	51.00	57.00
Chest Width	37.62	38.77	39.44	41.87	40.90	42.52	44.81	46.28	43.83	41.00
Shoulder Length	13.33	13.27	13.37	13.62	13.95	14.15	14.31	14.56	13.83	16.50
Shoulder slope*	20.93	20.74	20.75	20.42	19.52	20.27	20.19	18.33	18.33	15.00
Shoulder to wrist	59.15	60.24	60.47	60.83	62.40	62.61	62.41	64.67	62.67	56.50
Shoulder to elbow	34.04	34.60	34.58	35.09	35.60	35.78	36.03	37.11	35.50	30.00
Underarm to wrist	43.38	43.47	43.70	43.91	44.66	43.80	43.81	43.72	41.67	43.00
Bust point to BP	20.46	21.29	22.23	23.02	24.13	24.00	25.50	26.22	26.83	29.00
Neck to bust point	29.71	30.57	31.19	31.58	32.50	32.94	34.38	33.94	36.00	41.00
Armscye depth	18.99	19.44	19.91	20.92	21.48	21.81	21.72	23.28	21.67	20.00
Armscye to waist	19.36	19.21	19.15	19.57	19.54	19.85	18.81	22.67	18.50	20.50
Weight (kg)	67.25	76.61	80.52	88.11	93.58	103.33	105.92	116.98	115.22	129.28

* Shoulder slope figures indicated as "degrees of slope."

** Measurements not in original PS 42-70 data base.

(1) Subjects' measurements are listed as comparisons to PS 42-70 numbered sizes. Hang tag numbers currently used in US Apparel

Sizing range from 2 to 4 sizes smaller than the original PS 42-70 database.



5. Apparatus

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

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

5.3 *Light Weight Stretch Yarn Knitted Fabric Body Suit*, with cotton tapes added at strategic body locations and front zippered opening. The suit has long sleeves and an approximate 5-cm [2-in.] inseam.⁹

5.4 *Scale*, calibrated for standard body weight.

6. Procedure

6.1 General Procedures:

6.1.1 Verify that measuring devices and scales are within calibration.

6.1.2 The body measurement descriptions included herein follow the exact procedures and order of the database measurements reported in the research technical report tables (Reich and Goldsberry, 1993) and tables in these tables.

6.1.3 For all vertical and most horizontal measurements, measure the body, which is standing erect without shoes and with feet placed approximately 15-cm [6-in.] apart.

6.1.4 For seated measurements, have the subject sit on a straight, flat seat chair with the feet placed together in front of the body on the floor.

6.1.5 Take measurements over the body suit⁹ with subjects wearing basic undergarments normally worn when shopping for well-fitted apparel.

6.1.6 Take all measurements except torso circumferences, arc measurements, height, and weight from the same side of the body for consistency in data gathering.

6.1.7 Refer to Terminology **D5219** for all points to be measured.

6.1.8 Refer to Research Technical Report PCN:33-000006-18, ISR-06 (Reich and Goldsberry, 1993) for data on 13 additional measurements that further describe the proportions of older women.

6.2 Body Measurements:

6.2.1 *Bust Girth*—Measure the bust circumference horizontally, around the body, under the arms and across the chest/bust apex including the lower portion of the shoulder blades.

6.2.2 (*i.e. specific to this study*) *Bust Arc*—Measure parallel to the floor from one mid-underarm point across the chest/bust apex to the other mid-underarm point.

6.2.3 *Waist Girth*—Measure horizontally, the minimum circumference around the body at the waist height. This measurement may not be parallel to floor.

6.2.4 (*i.e. specific to this study*) *Waist Arc*—Measure across the front of the body at waist level from one imaginary side seam to the other imaginary side seam.

6.2.5 (*i.e. term used in this study*)—*Abdominal Extension (High-Hip Girth)*—Measure horizontally the maximum circumference around the body at the high hip level approximately 7.5 cm [3 in.] below the waist including the abdominal extension.

6.2.6 (*i.e. specific to this study*) *Abdominal Arc*—Measure across the front of the body at the level of the fullest abdominal extension (high-hip level) from one imaginary side seam to the other imaginary side seam.

6.2.7 *Hip Girth*—Measure horizontally the maximum circumference around the body at the hip height.

6.2.8 (*i.e. specific to this study*) *Hip Arc*—Measure across the back at the fullest hip level from one imaginary side seam to the other imaginary side seam.

6.2.9 (*i.e. specific to this study*) *Sitting Spread*—Locate the tape measure around the full hip and hold loosely in place while the subject sits down on a flat chair. The tape will spread when seated. Before reading the measurement, if necessary, reposition the tape on top of body folds that represent additional spread.

6.2.10 *Mid-Neck Girth*—Measure the neck circumference approximately 2.5 cm [1 in.] above the neck base level.

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

6.2.12 *Armscye*—Measure the girth from the shoulder joint through the front-break point, the armpit, to the back-break point and to the starting point with the arms down.

6.2.13 *Upper Arm Girth*—Measure the maximum circumference of the arm midway between the elbow and shoulder point, parallel to the floor while the arm is bent 1.57 rad [90°].

6.2.14 *Elbow*—Measure the maximum 1.57 rad [90°], circumference of the elbow while the arm is bent at 1.57 rad [90°].

6.2.15 *Wrist Girth*—Measure the maximum circumference of the wrist over the inner and outer wrist bones.

6.2.16 (*i.e. term used in this study*)—*Thigh, Max*)—*Thigh Girth*—Measure the maximum circumference of the upper leg close to the crotch, parallel to the floor.

6.2.17 (*i.e. term used in this study*)—*Thigh, Mid*)—*Mid Thigh Girth*—Measure horizontally the circumference of the upper leg midway between the hip girth level and the mid point (or crease) and the knee.

6.2.18 *Knee Girth*—Measure horizontally the maximum circumference of the knee over the knee cap, with the leg straight.

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

6.2.20 *Ankle Girth*—Measure horizontally the maximum circumference of the ankle over the greatest prominence of the ankle bones.

6.2.21 (*i.e. term used in this study*)—*Vertical Trunk*)—*Total Vertical Trunk Length*—Measure (contour) from the point on the right shoulder midway between the neck base and shoulder joint down the back, through the crotch and up over the prominence of the right bust apex to the starting point, avoiding constriction at the crotch.

⁹ The sole source of supply of the bodysuit known to the committee at this time is Debi Gioello, Fashion Institute of Technology, New York, NY. If you are aware of alternative suppliers, please provide this information to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee,¹ which you may attend.

TABLE 8 Comparison of Size Labels and Body Proportions in Both the Misses Figure Type of D5586 (55 And Older Women—Table 4) And Misses Current Best Practices (D5585)

Std/Size	D5586 55+ size 6	D5585 No Miss	D5586 55+ size 8	D5585 Miss 2	D5586 55+ size 10	D5585 Miss 4	D5586 55+ size 12	D5585 Miss 6	D5586 55+ size 14	D5585 Miss 8	D5586 55+ size 16	D5585 Miss 10	D5586 55+ size 18	D5585 Miss 12	D5586 55+ size 20	D5585 Miss 14	D5586 55+ size 22	D5585 Miss 16	D5586 No 55+ Miss 24	D5585 Miss 18	D5586 No 55+ Miss 26	D5585 Miss 20
Location																						
Bust	30.66		31.45	32	32.6	33	34.18	34	35.68	35	37.22	36	39.13	37½	41.01	39	42.23	40½		42½		44½
Bust Arc	16.38		17.11		17.31		18.32		19.34		20.14		21.14		21.93		23					
Waist	26.64		27.22	24	28.4	25	29.81	26	31.06	27	32.57	28	34.48	29½	36.97	31	39.32	32½		34½		36½
Waist Arc	14.12		14.47		15.06		15.83		16.54		17.42		18.58		20.05		21.1					
Abdominal Extension	33.78		33.83	31½	34.75	32½	36.43	33½	37.62	34½	39.07	35½	41.21	37	43.49	38½	45.54	40		42		44
Abdominal Arc	17.69		17.74		18.29		19.15		19.91		20.71		21.91		23.08		23.96					
Hip	35.67		35.51	34½	36.4	35½	37.39	36½	38.92	37½	40.03	38½	41.61	40	43.46	41½	44.82	43		45		47
Hip Arc Back	18.18		17.88		18.46		19.09		19.58		20.02		20.79		21.55		22.57					
Sitting Spread	37.14		36.82		38.02		39.97		40.83		41.96		43.79		45.86		47.77					
Midneck	11.99		12.27	13	12.4	13¼	12.82	13½	13.16	13¾	13.5	14	13.83	14¾	14.5	14¾	14.8	15½		15½		16½
Neck Base	14.96		15.13	13½	15.33	13¾	15.49	14	15.88	14½	16.3	14½	16.53	14¾	17.17	15¼	17.22	15½		16½		16½
Armseye	15.43		15.85	14¼	16.43	14½	16.58	15	17.22	15½	17.65	15¾	18.23	16¾	18.87	17	19.53	17½		18¾		19½
Upper Arm	10.08		10.26	10	10.66	10¼	11.27	10½	11.73	10¾	12.27	11	12.85	11¾	13.64	11¾	14.08	12½		12¾		13¾
Elbow	9.51		9.53	9¾	9.93	9½	10.18	9¾	10.51	9¾	10.7	9¾	11.08	10½	11.6	10¾	11.79	10¾		11		11¾
Wrist	5.92		5.9	5½	5.98	5¾	6.12	5½	6.24	6	6.36	6½	6.52	6¼	6.7	6¾	6.85	6½		6½		6¾
Thigh-max	20.17		20.21	19½	21.01	20¼	21.99	21	22.52	21¾	23.1	22½	23.92	23½	25.05	24½	25.64	25½		26¾		28
Thigh-Mid	17.51		17.66	18¼	18.68	18¾	19.34	19¼	19.82	19¾	20.36	20¼	20.93	21	21.87	21¾	22.42	22½		23½		24½
Knee	13.43		13.43	13	13.86	13¾	14.28	13¾	14.56	14½	14.94	14½	15.44	15	15.98	15½	16.37	16		16½		17
Calf	12.32		12.62	12½	12.76	12¾	13.25	3¼	13.58	13¾	13.84	14	14.43	14½	14.86	15	15.23	15½		16		16½
Ankle	9.09		9.15	8¾	9.18	8¾	9.25	8¾	9.5	9¾	9.52	9¾	9.75	9¾	10.01	9¾	10.18	10½		10¾		10¾
Vertical Trunk	57.94		57.61	56	58.59	57½	59.54	59	61.17	60½	62.07	62	63.53	63½	65.14	65	66.64	66½		68		69½
Total Crotch Length	27.72		27.17	25	27.34	25¾	28.02	26½	29.04	27¼	29.38	28	30.55	28¾	30.2	29½	31.85	30¼		31		31¾
Stature (Height)	62.7		63.42	63½	64	64	65	64½	65.2	65	65.59	65½	66.1	66	66.42	66½	67.08	67		67½		68
Cervical Height	55.11		55.26	59½	55.79	55	56.37	55½	57.09	56	57.64	56½	58.28	57	58.76	57½	59.42	58		58½		59
Waist Height Back	39.38		39.54	39¼	39.8	39½	40.43	39¾	40.84	40	41.17	40¼	41.53	40½	41.96	40¾	42.45	41		41¼		41½
Abdominal Height	36.22		36.48	35¼	36.99	35½	37.66	35¾	37.82	36	38.25	36¼	38.48	36½	38.49	36¾	39	37		37¼		37½
Waist to Hip Height	7.4		7.07		6.85		7.02		7.16		7.33		7.76		7.75		8.13					
Hip Height	32.57		33.27	31¼	33.7	32½	34.15	31¾	34.34	32	34.63	32¼	34.61	32½	34.78	32¾	34.96	33		33¼		33½
Inseam	28.91		29.19	29½	29.52	29½	29.76	29½	29.82	29½	30.19	29½	30.18	29½	30.23	29½	30.65	29½		29½		29½
Knee Height	16.88		17.18	17¾	17.31	17¾	17.59	17¾	17.76	18	17.99	18½	18.09	18¼	18.1	18¾	18.48	18½		18½		18¾
Ankle Height	2.49		2.55	2¾	2.58	2¾	2.59	2¾	2.68	2¾	2.73	2¾	2.71	2¾	2.72	2¾	2.84	2¾		2¾		2¾
Waist Length, Front	12.94		13.09	13½	13.28	13¾	13.44	14	13.69	14¼	13.96	14½	14.17	14¾	14.56	15	14.88	15¼		15½		15¾
Cervical to CF Waist	19.15		19.2		19.52		19.83		20.27		20.67		20.97		21.56		22.11					
Waist Length, Back	15.72		15.71	15½	15.98	15¾	15.95	16	16.24	16¼	16.47	16½	16.57	16¾	16.8	17	16.98	17¼		17½		17¾
Cross Back Shoulder	14.62		14.8	14¾	15.18	14¾	15.45	14¾	15.84	15½	16.01	15¾	16.28	15¾	16.66	16½	17.19	16½		17		17½
Back Width	14.21		14.2	13¾	14.28	14¾	14.57	14¾	14.86	14¾	15.44	14¾	15.95	15¼	16.62	15¾	17.32	16		16½		17
Chest Width	13.54		13.53	12¾	13.52	13¾	14	13¾	14.23	13¾	14.56	13¾	15.02	14¼	15.75	14¾	16	15		15½		16
Shoulder Length	4.78		5.09	4½½	5.08	5	5.25	5½½	5.15	5½	5.31	5½½	5.31	5½½	5.39	5½½	5.47	5½½		5¾		5½½
Shoulder Slope	21.4		22.02	23	22.34	23	21.98	23	22.54	23	22.51	23	21.76	23	21.51	23	20.86	23		23		23
Shoulder to Wrist	22.41		22.7	22½½	23.02	23½	23.23	23½½	23.54	23½	23.86	23½½	24.08	23¾	24.24	24½½	24.73	24½		24½½		24¾
Shoulder to Elbow	12.68		12.84	13¼	13.42	13¾	13.46	13½	13.59	13¾	13.71	13¾	13.87	13¾	13.99	14	14.21	14½		14¼		14¾
Underarm to Wrist	17.03		17.05		17.09		17.19		17.24		17.59		17.54		17.71		17.75					
Bust Point to BP	6.67		6.82	7	7.03	7¼	7.29	7½	7.51	7¾	7.73	8	8.24	8¼	8.64	8½	8.84	8¾		9		9¼
Neck to Bust Point	10.43		10.62	9¼	10.68	9½	11.02	9¾	11.4	10	11.68	10¼	11.92	10¾	12.09	11	12.34	11¾		11¾		12¾
Armseye Depth	6.86		7.09	7½	6.98	7¼	7.09	7¾	7.22	7½	7.47	7¾	7.68	7¾	8.06	7¾	8.12	8		8½		8¼
Armseye to Waist	7.22		7.09	7.3		7.47		7.59		7.71		7.64		7.81		7.77						
Weight	103.4		107.27	115.09		125.71		134.71		144.64		159.45		174.13		189.68						

All measurements in inches only.

In using this table, first review document Introduction and Section 4.



6.2.22 *Total Crotch Length*—Measure (contour) from the waist level at the center front, through the crotch to the waist level at center back avoiding constriction at the crotch.

6.2.23 *Stature*—Measure from the crown of the head to the floor with subject standing and without shoes.

6.2.24 *Cervicale Height*—(i.e. method used in this study). Measurements of waist length and waist height were added together to provide total height from the cervicale to the floor. If measuring in one step, follow the contour of the spinal column to the level of the hips, then vertically to the floor with subject standing without shoes.

6.2.25 *Waist Height (Center Back)*—(i.e. method used in this study). Measure from the center-back waist level following the body contour from waist to full hip and then plumb to the floor. Note the waist height measurement in the tables is taken at the center back and not from the side of the body.

6.2.26 *Waist Height (Side)*—(i.e. method used in this study). Measurement (not provided in the tables) can be calculated by adding the two measurements of waist-to-hip height and hip height.

6.2.27 (i.e. term used in this study—*Abdominal Extension Height*)—(*High Hip Height*)—Measure (contour) vertically from the high-hip girth level to the hip girth level along the side of the body, then plumb to the floor with subject standing without shoes.

6.2.28 *Waist to Hip Height*—Measure (contour) from the waist level, to the hip girth level along the side of the body.

6.2.29 *Hip Height*—Measure (plumb) from the hip girth level to the floor along the side of the body with subject standing without shoes.

6.2.30 (i.e. term used in this study—*Inseam*)—*Crotch Height*—Measure (plumb) from the mid-point of the crotch to the floor with the subject standing without shoes.

6.2.31 *Knee Height*—Measure (plumb) from the mid-point of the back of the knee to the floor with the subject standing without shoes.

6.2.32 *Ankle Height*—Measure (plumb) from the prominence of the outer ankle bone to the floor with subject standing without shoes.

6.2.33 (i.e. term used in this study—*Waist Length Front*)—*Center Front Waist Length*—Measure (contour) from the center front neck base line to the center front waist level.

6.2.34 (i.e. specific to this study)—*Cervicale to Center Front Waist*—Measure from the cervicale at the center back along the neck base to the shoulder line, then down to the waist level at center front.

6.2.35 (i.e. term used in this study—*Waist Length (Back)*)—*Center Back Waist Length*—Measure (contour) from the cervicale to the center back waist level along the spine.

6.2.36 (i.e. term used in this study—*Across Back Shoulder*)—*Across Shoulder*—Measure horizontally across the back from the top of one shoulder joint to the top of the other shoulder joint with the arms down.

6.2.37 *Back Width*—Measure horizontally across the back from break-point to break-point over the shoulder blades with the arms down.

6.2.38 (i.e. term used in this study—*Chest Width Front*)—*Across Chest Width*—Measure horizontally across the chest from front break-point to front break-point with the arms down.

6.2.39 *Shoulder Length*—Measure from the side neck base to the top of the armscye shoulder joint with the arms down.

6.2.40 *Shoulder Slope*—Using a goniometer, position the measure on the shoulder and move the baseline until it is parallel to the floor. Identify the degrees of difference between the shoulder slant and the horizontal measure on the goniometer dial.

6.2.41 (i.e. term used in this study—*Shoulder to Wrist*)—*Arm Length*—Measure from the top of the shoulder joint along the outside of the arm over the elbow to the prominent wrist bone with the arm bent at 1.57 rad [90°] and the hand placed on the hip.

6.2.42 *Shoulder to Elbow Length*—Measure from the shoulder joint along the outside of the arm to the prominent point of the elbow with the arm bent at 1.57 rad [90°] and the hand placed on the hip.

6.2.43 (i.e. term used in this study—*Underarm to Wrist*)—*Underarm Length*—Measure from the mid-underarm point of the armscye to the inner wrist bone.

6.2.44 *Bustpoint to Bustpoint*—Measure horizontally from bust apex to bust apex with arms down.

6.2.45 *Neck to Bustpoint*—Measure (contour) from the side of the neck base down to the bustpoint apex.

6.2.46 (i.e. term used in this study)—*Armscye Depth*—Measure straight down the back from the shoulder/armscye intersection to a point level with the base of the armscye. Determine this point by placing a straight edge high into the underarm parallel to the floor.

6.2.47 *Armscye to Waist*—Measure from the mid-underarm point along the side of the body to the waist.

6.2.48 *Weight*—Weigh subject in undergarments on a calibrated scale.

7. Keywords

7.1 adult female apparel; body measurements; garment size; half-size; junior; junior petite; miss petite; misses; misses tall; women's



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