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A STUDY OF SIZING AND GRADING  
IN DIFFERENT BRANDS OF MISSES' DRESS PATTERNS

by

LAURA LOUISE LUCAS

4357

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Approved by

Agnes N. Coxe  
Adviser

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L. L. L.

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## CHAPTER I

### INTRODUCTION

#### Purpose of the Study

The purpose of this study was to determine the amount of variation in the same size pattern and in the grading of sizes 14, 16, 18 and 20 by eight different commercial companies producing patterns in January, 1950. From the limited number of patterns studied, an attempt was made to determine the following.

1. Whether there was a uniformity of size in similar styles of the different brands of patterns manufactured at the present time.
2. The difference in bust and waist measurements quoted for the pattern design and those of the tissue pattern.
3. Whether there appeared to be a relationship between the variations in measurements and the price of the commercial pattern.
4. The difference in the amount of variation in grading four sizes of the Misses' group by four companies in the medium price group.
5. The difference in the amount of variation of commercial dress patterns before and after the establishment of Commercial Standards<sup>1</sup> for measurements of dress patterns by the United States

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1. United States Department of Commerce, National Bureau of Standards. Dress Patterns, Fourth Edition. Commercial Standard CS13-44. Washington, D. C.: United States Government Printing Office, 1944. 4 pp.



Department of Commerce.

6. Whether there is a relationship between the amount of variation in the measurements of patterns made by companies accepting and using the Commercial Standards and those not accepting the standards.

7. The relationship between the amount of variation in patterns which had printed markings and those which had perforated markings.

#### Reasons for the Study

Use of commercial patterns in the classroom by students has led to the observation that there are variations in the same measurements of different designs produced by the same company. It is recognized that the variation is determined to some extent by the design and by the current fashion. It is logical to expect similar designs to have approximately the same measurements in the same size and for the amount of variation in grading different sizes of the same design to be regular.

Since 1928 when Caroline Barnes Little made a study "to ascertain the differences in sizes of different makes of commercial dress patterns,"<sup>2</sup> there has been research in the effort to standardize sizes of patterns. In 1930, the National Bureau of Standards made its first attempt to adopt standards for dress patterns. These standards

provide definitions, standard classifications and corresponding body measurements for the guidance of producers, distributors and users, in order to eliminate confusion resulting from a diversity of classifications and measurements.<sup>3</sup>

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2. Caroline Barnes Little, A Comparative Study of the Sizes of Commercial Dress Patterns. Master's Thesis. The University of Minnesota. 1928. p. 1.

3. United States Department of Commerce, National Bureau of Standards, op. cit., p. 1.

The acceptance of these standards is voluntary on the part of the producer or user and acceptance of the standards does not mean the producer cannot deviate from the standard where he considers it practical. These standards have been revised in 1938, 1941, and 1944 to include additional size groups and measurements.

A research project<sup>4</sup> was undertaken by the Textiles and Clothing Division of the Bureau of Home Economics under the direction of Ruth O'Brien to provide measurements which could be used for improving the fit of women's garments and patterns. Prior to the time this study was made there had been no scientific study of body measurements to be used as a basis for garment and pattern construction. It was recommended that a combination of vertical and horizontal measurements would be more accurate than girth measurements or age for sizing patterns. A combination stature-weight system for sizing patterns would be the best. This study has been published since December, 1941 and sizing has continued to be indicated by age and bust width in the Misses' group. Research to determine the improvement of measurements in the same size patterns in different brands has been limited to one study.

Following this extensive research project Margaret Anne Ryan<sup>5</sup> in 1946 studied the fitting quality of six dresses made by commercial patterns. These dresses were fitted on varying types of individuals who fall within the 36 inch bust range. Findings showed the designs to have

---

4. Ruth O'Brien, Women's Measurements for Garment and Pattern Construction. United States Department of Agriculture, Miscellaneous Publication Number 454. Washington, D. C.: United States Government Printing Office. 1941. 73 pp.

5. Margaret Anne Ryan, A Comparison of the Fitting Quality of Dresses Made from Six Commercial Patterns. Master's Thesis. Pennsylvania State College. 1946. 115 pp.

satisfactory ease in the bust for approximately 30 per cent of the women fitted. The amount of ease in the waist width was satisfactory in less than 30 per cent of the women measured.

Jernberg,<sup>6</sup> Le Fleir,<sup>7</sup> Morgan,<sup>8</sup> and Little<sup>9</sup> compared measurements on the patterns with those taken on individual figures in various sizes. All of these indicated a great variation existing in the measurements of patterns of the same size and between pattern measurements and those of the human figure of a corresponding size.

Morgan's study indicated less variation in the longitudinal measurements than in the girth and width measurements. Corresponding measurements of the same size varied in the patterns made by different companies. Patterns in the same brand were not graded with a consistent increase in the different sizes. The waist width had the greatest amount of variation.

The study by Little showed greater variations in the same size pattern of different brands and the same size patterns within one brand in the Misses' and Girl's size groups.

Dunn and Cranor<sup>10</sup> observed that measurements given on the pattern

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6. Ingrid Karin Jernberg, A Comparison between the Relation of Certain Body Measurements of Individuals and Those of Commercial Patterns. Master's Thesis. Kansas State College. 1932. 47 pp.

7. Louise Beatrice Le Fleir, A Comparative Study of Body Measurements of a Selected Group of College Women with Certain Commercial Patterns. Master's Thesis. Kansas State College. 1931. 40 pp.

8. Prudence Martha Morgan, A Comparative Study of the Body Measurements of a Selected Group of Women with Those of Certain Commercial Patterns. Master's Thesis. Kansas State College. 1931. 51 pp.

9. Little, op. cit., 89 pp.

10. Mary Alice Dunn and Katherine Taylor Cranor, "A Preliminary Study of the Need for the Standardization of Pattern Sizes." Journal of Home Economics, 19:329-331, June, 1927.

envelope or guide sheet did not correspond with the measurements taken in the data collection. Neither did the same size patterns in one brand or in different brands have the same measurements.

Clayton and Phelps<sup>11</sup> found the maximum variation to be 4 3/4 inches in the center front length and approximately 2 inches in the bust and chest widths.

Prior to the study by the Bureau of Home Economics, variations in pattern measurements had been derived by taking corresponding measurements on the human body and on commercial patterns and finding the differences between them. Ryan's study which followed the Bureau of Home Economics' project compared body measurements with corresponding measurements on the commercial pattern. These patterns were then used to make dresses which were fitted on the persons measured to determine the amount of alteration necessary.

Records could not be found of any previous study comparing the Commercial pattern with a Basic pattern. This seemed to be a better method for making a comparative study of measurements. There is no record of further study on grading different pattern sizes since 1932. Nine years have lapsed since the Bureau of Home Economics completed its study and six years since the National Bureau of Standards made its last suggestions. Since it is evident from the use of commercial patterns that many variations are still prevalent after this period of time, it seems desirable to determine whether commercial pattern companies have used these findings to improve the sizing of their patterns and if so, to what extent.

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11. Ruth Clayton and Ethel Phelps, "The Size of Commercial Patterns." Journal of Home Economics, 18:150, March, 1926.

## CHAPTER II

### PROCEDURE

#### The Basic Pattern

The Basic pattern selected as a basis for comparing the commercial patterns was Misses' size 16 from Esther Pivnick's, How to Design Beautiful Clothes. Since this book which was published in 1949 superseded other pattern drafting manuals and books, it was thought it would probably correspond more closely to the fashion silhouette of the present day. The blouse<sup>1</sup> front, blouse back, and sleeve of the Basic pattern were drafted on poster board with no allowance for shoulder pads. Diagrams I, II, and III show the blouse front, blouse back, and sleeve of the Basic pattern reduced to 1/4 the original size.

The measurements to be made were located on the Basic pattern as they were on each commercial pattern. Diagram IV shows the location of the points used in making the twenty-five measurements on the blouse front. Diagram V shows the location of the points used in making the twenty-four measurements on the blouse back. Diagram VI shows the points used for locating the nine measurements made on the sleeve.

#### Selection of Patterns

All dress patterns were selected from the November, December, 1949 and January, 1950 catalogues of eight companies in an effort to minimize changes in style trends which could affect the amount of ease. Two

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1. Blouse indicates the waist of a dress pattern.

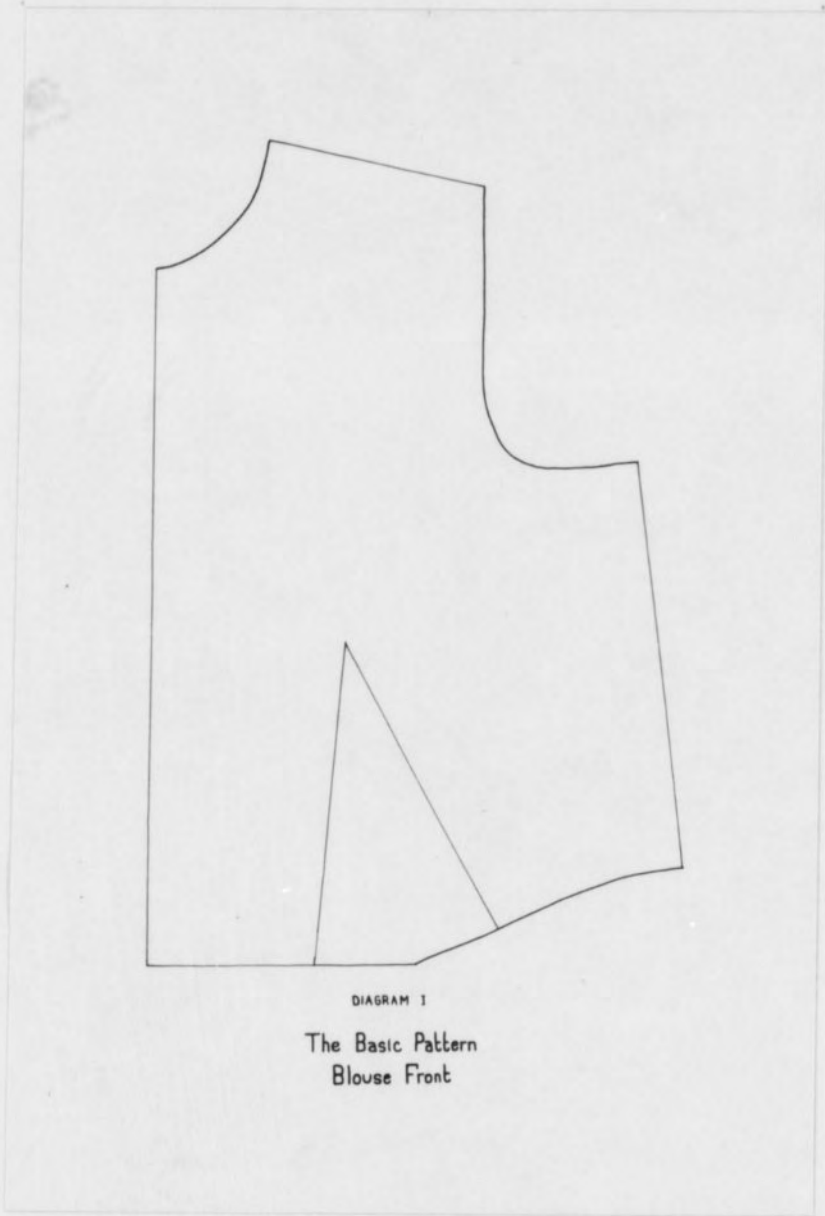
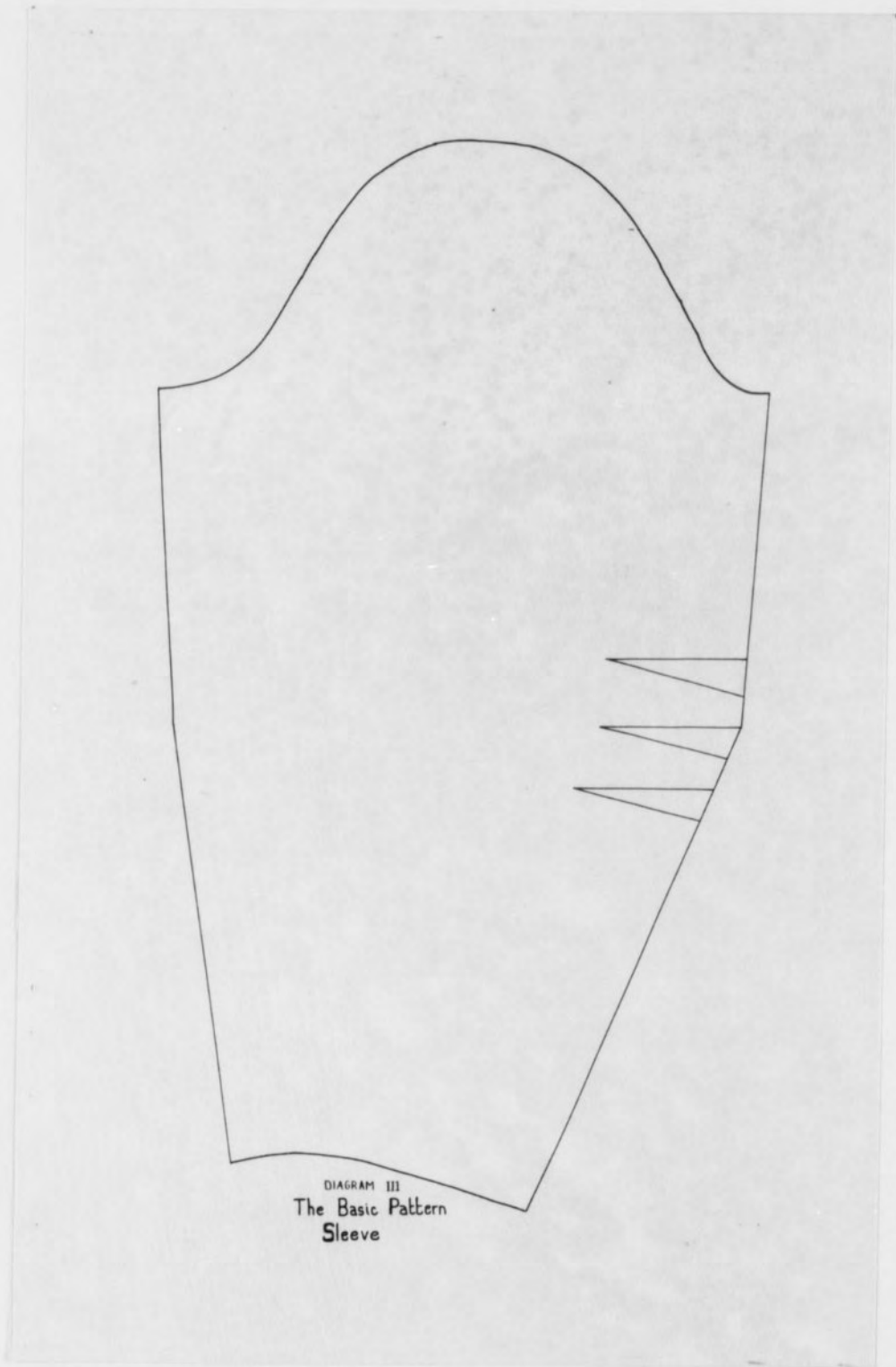


DIAGRAM 1

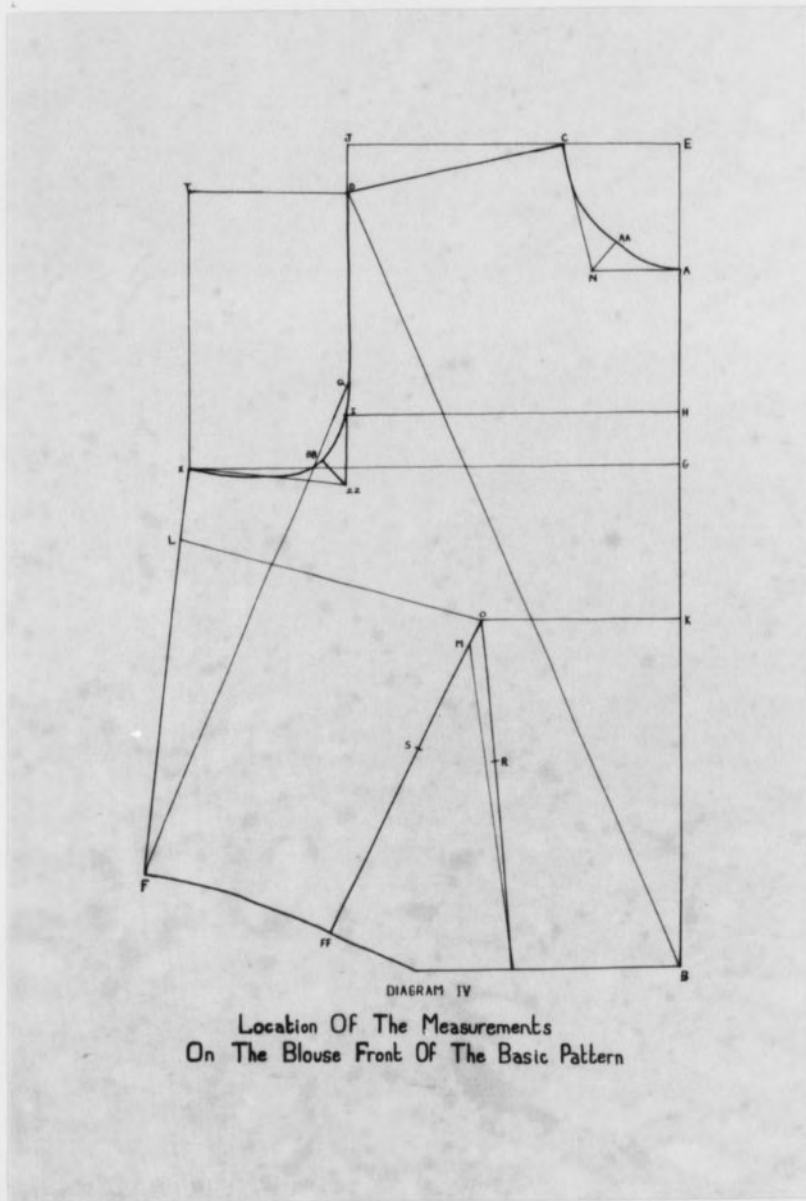
The Basic Pattern  
Blouse Front

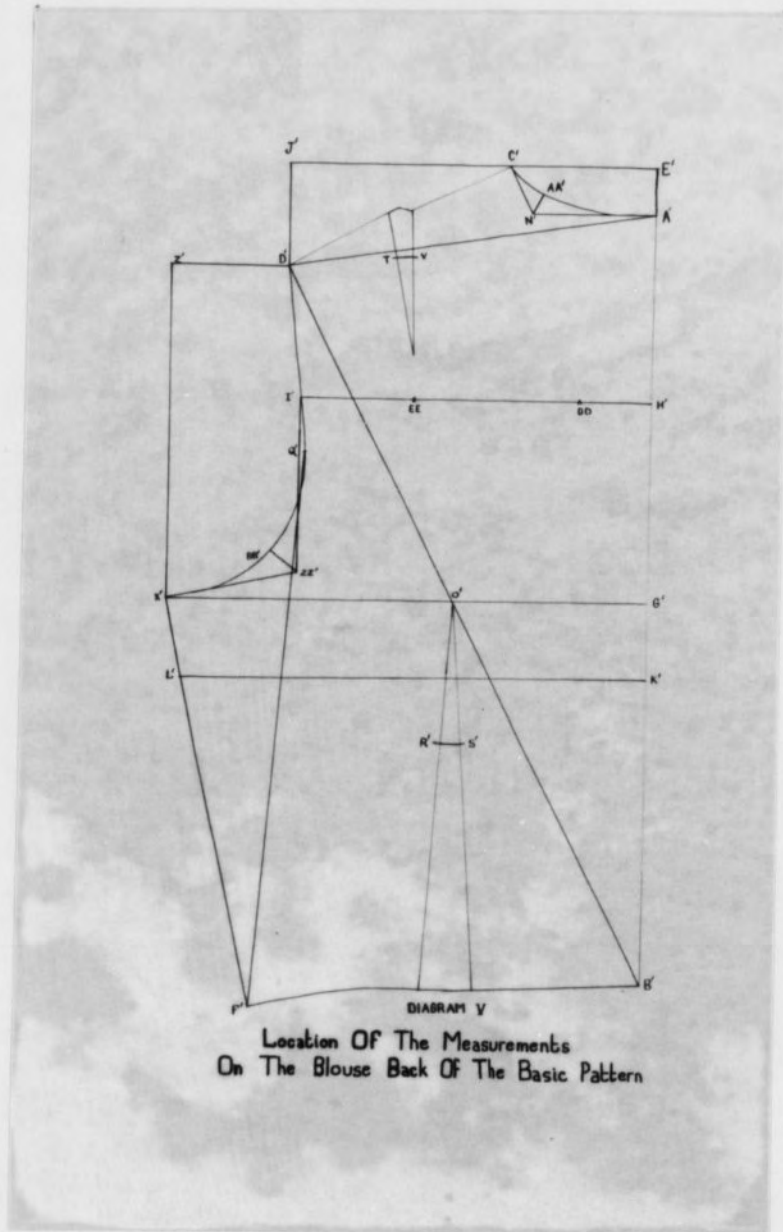


DIAGRAM II  
The Basic Pattern  
Blouse Back









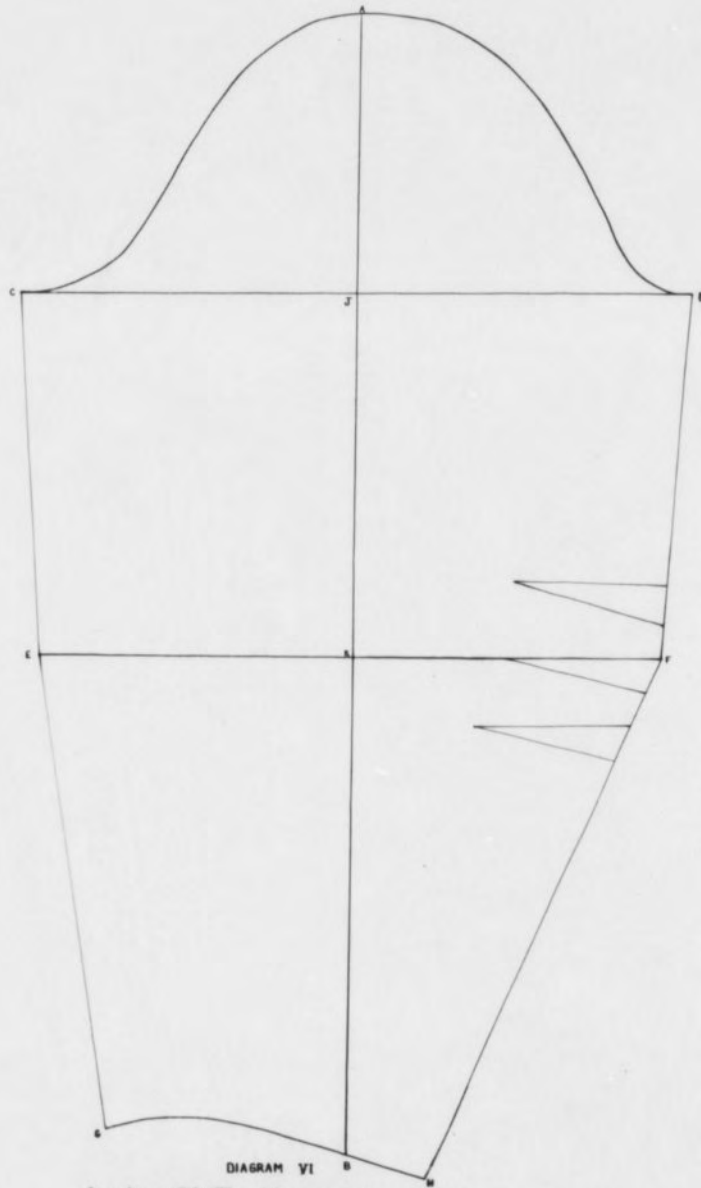


DIAGRAM VI

Location Of The Measurements  
On The Sleeve Of The Blouse Pattern

patterns in size 16 were obtained from the low, medium, and high price groups of eight well-known commercial pattern companies. Then of the two designs, the one that best met specifications for the study in the medium price group from each company was secured in sizes 14, 16, 18, and 20 to determine any variation in grading between the patterns of the different companies. The distribution of patterns used in the study is shown in Table I. All patterns used were dress patterns because it was felt the waist measurements on a dress pattern would be nearer the Basic pattern than the waist measurements on a blouse pattern. Many of the patterns were contributed for the study by the companies. Other patterns were purchased.

An attempt was made to secure patterns that had the same construction lines. The basic shirtwaist design with the following specifications was preferred:

Blouse front (one or combination of the following)

Shoulder dart

Underarm dart

Waist dart

Blouse back

Neck dart

Shoulder dart

Waist dart

Armhole (Normal armhole curve)

Sleeve (Basic, full length or three-quarter length)

Neckline (Normal neck curve)

Waist line (Normal)

Skirt (two, four, or six gored preferred)

TABLE I

## DISTRIBUTION OF PATTERNS MEASURED

Pattern	Price Range	Sizes			
		14	16	18	20
A1	Low		*		
A2	Low		*		
A3	Medium	*	*	*	*
A4	Medium		*		
B1	Low		*		
B2	Low		*		
B3	Medium	*	*	*	*
B4	Medium		*		
B5	High		*		
B6	High		*		
C1	Low		*		
C2	Low		*		
C3	Medium	*	*	*	*
C4	Medium		*		
D1	Low		*		
D2	Low		*		
E1	High		*		
E2	High		*		
F1	Low		*		
F2	Low		*		
G1	High		*		
G2	High		*		
H1	Low		*		
H2	Low		*		
H3	Medium	*	*	*	*
H4	Medium		*		

In surveying the commercial patterns which were released during the specified time, a survey sheet (Page 16) was used for recording information. From these survey sheets, the latest designs which best met the specifications were selected.

Variations from the preferred design were as follows in the different patterns selected for the study:

Pattern A1 (Figure 1).

Center back of blouse opened to waist line.

Pattern A2 (Figure 2).

Yoke on blouse front.

Pattern A3 (Figure 3).

Blouse front neck dart.

Center front of blouse opened to waist line.

Pattern A4 (Figure 4).

Diagonal dart on blouse front.

Yoke on blouse front.

Pattern B1 (Figure 5).

Center front opened to bust line.

Pattern B2 (Figure 6).

Center front opened to waist line.

Pattern B3 (Figure 7).

Center back opened to waist line.

Pattern B4 (Figure 8).

Center front opened to waist line.

Pattern B5 (Figure 9).

Center back opened to waist line.

Pattern B6 (Figure 10).

Center front opened to waist line.

Pattern C1 (Figure 11).

Center front opened to waist line.

Pattern C2 (Figure 12).

Center front opened to waist line.

Pattern C3 (Figure 13).

Diagonal darts on blouse front.

Pattern C4 (Figure 14).

Yoke on blouse front.

## SURVEY SHEET

Pattern InformationSketch

Brand \_\_\_\_\_  
 Pattern number \_\_\_\_\_  
 Price \_\_\_\_\_  
 Sizes \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
 Classification in catalogue \_\_\_\_\_  
 \_\_\_\_\_  
 Month \_\_\_\_\_  
 Page reference \_\_\_\_\_

Design Information

1. Neck line (Normal neck curve).  
 Collar  
 No collar  
 Tie
2.  Waist line (Normal).
3.  Armhole curve (Normal with basic sleeve).
4. Sleeve (Basic).  
 Short  
 Three-quarter  
 Long
5. Blouse back.  
 Neck darts  
 Shoulder darts  
 Waist darts,  gathers  
 Yoke
6. Blouse front.  
 Shoulder dart,  gathers  
 Waist darts,  gathers  
 Yoke  
 Neck dart,  gathers  
 Diagonal underarm dart,  horizontal
7. Skirt back.  
 1 gore with darts  
 2 gores with pleats,  without;  with darts,  without  
 3 gores with pleats,  without
8. Skirt front.  
 1 gore with darts,  without;  with tucks  
 2 gores with pleats,  without;  with darts,  without  
 3 gores with pleats,  without pleats
9. Width of skirt at hem line is  inches in size .

FIGURE 1



Front



Back

BRAND A - STYLE 1  
Low Price



FIGURE 2



Front

Back

BRAND A - STYLE 2  
Low Price

FIGURE 3

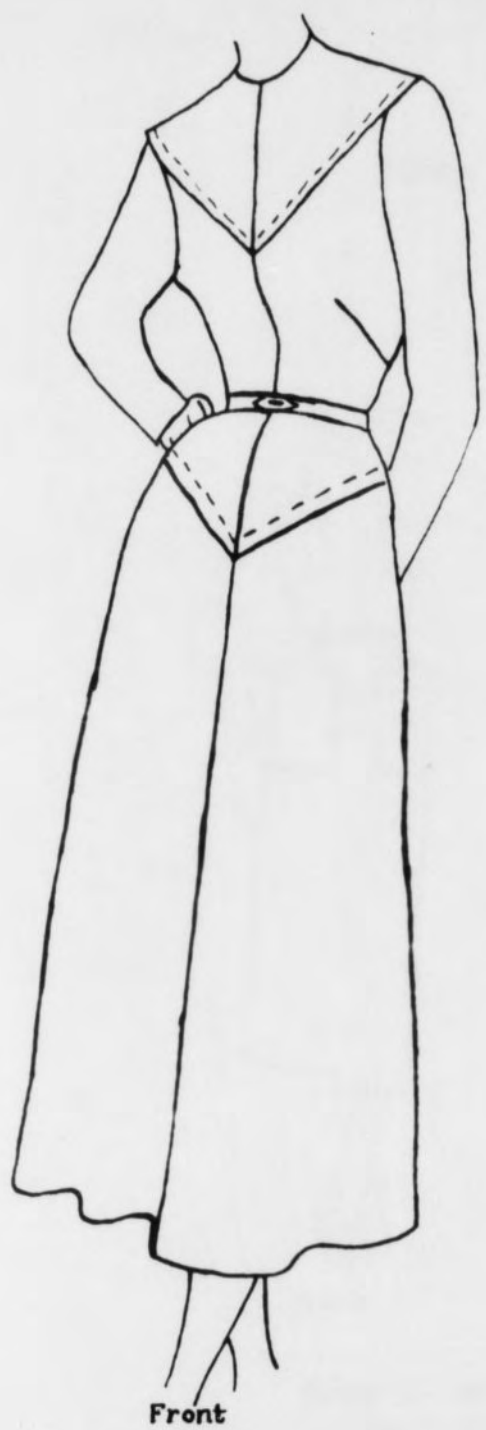


Front

Back

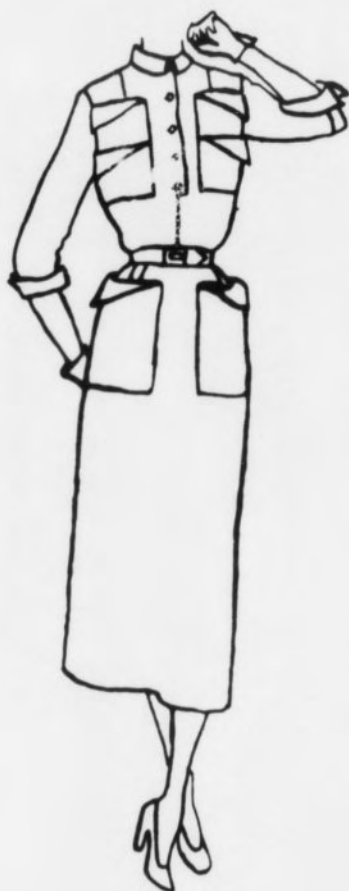
BRAND A - STYLE 3  
Medium Price

FIGURE 4



BRAND A - STYLE 4  
Medium Price

FIGURE 5



Front



Back

BRAND B - STYLE 1  
Low Price

FIGURE 6



Front



Back

BRAND B - STYLE 2.  
Low Price

FIGURE 7



Front

Back

BRAND B - STYLE 3  
Medium Price

FIGURE 8



Front

Back

BRAND B - STYLE 4  
Medium Price

FIGURE 9



Back

Front

BRAND B - STYLE 5  
High Price



FIGURE 10



Back

Front

BRAND B - STYLE 6  
High Price

FIGURE 11



Front



Back

BRAND C - STYLE 1  
Low Price

FIGURE 11



Front



Back

BRAND C - STYLE 1  
Low Price

FIGURE 12



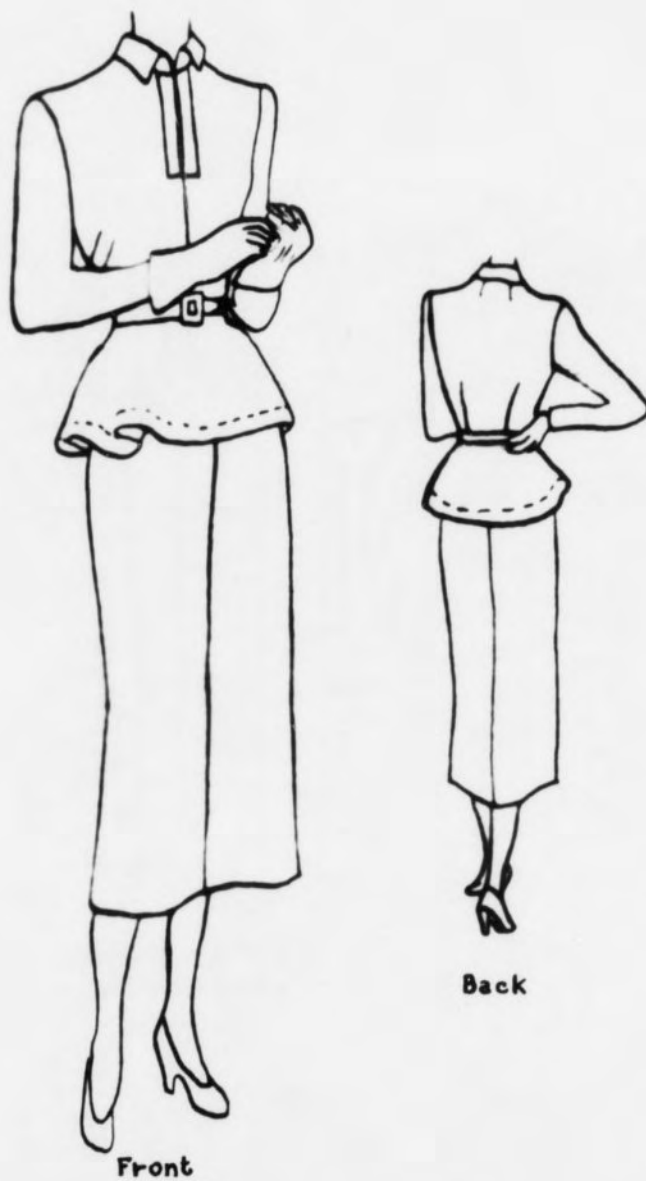
Front



Back

BRAND C - STYLE 2  
Low Price

FIGURE 13



BRAND C - STYLE 3  
Medium Price

FIGURE 14



BRAND C - STYLE 4  
Medium Price

FIGURE 15



FRONT

BRAND D - STYLE 1  
Low Price

FIGURE 16



BRAND D - STYLE 2  
Low Price



FIGURE 17



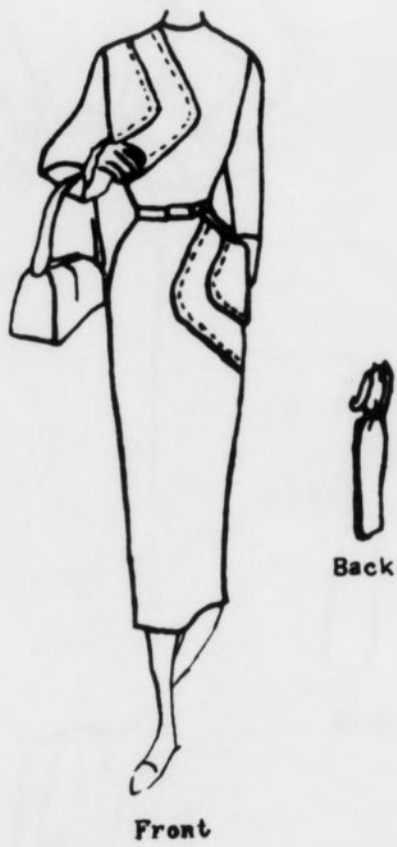
Front



Back

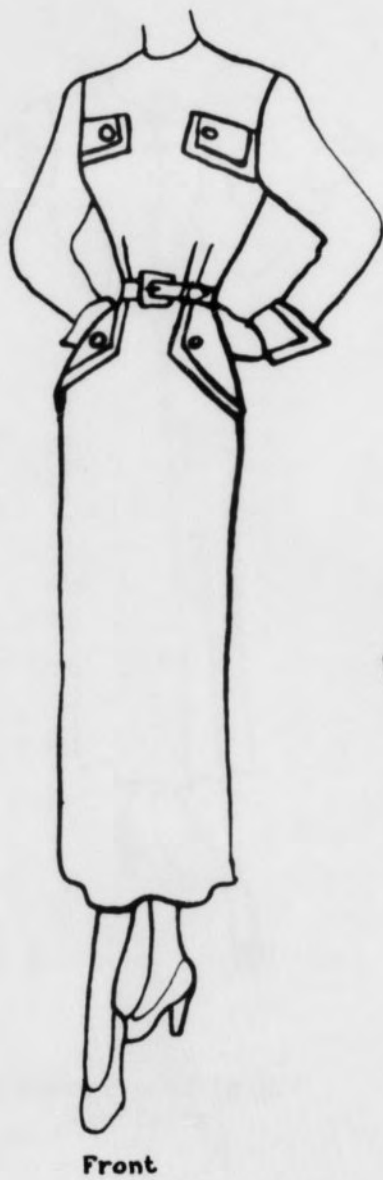
BRAND E - STYLE 1  
High Price

FIGURE 18



BRAND E - STYLE 2  
High Price

FIGURE 19



BRAND F - STYLE 1  
Low Price

FIGURE 20

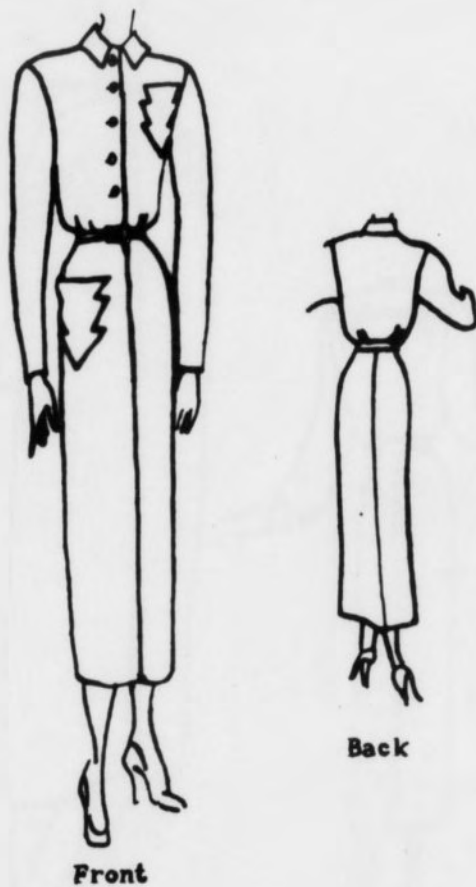


Front

Back

BRAND F - STYLE 2  
Low Price

FIGURE 21

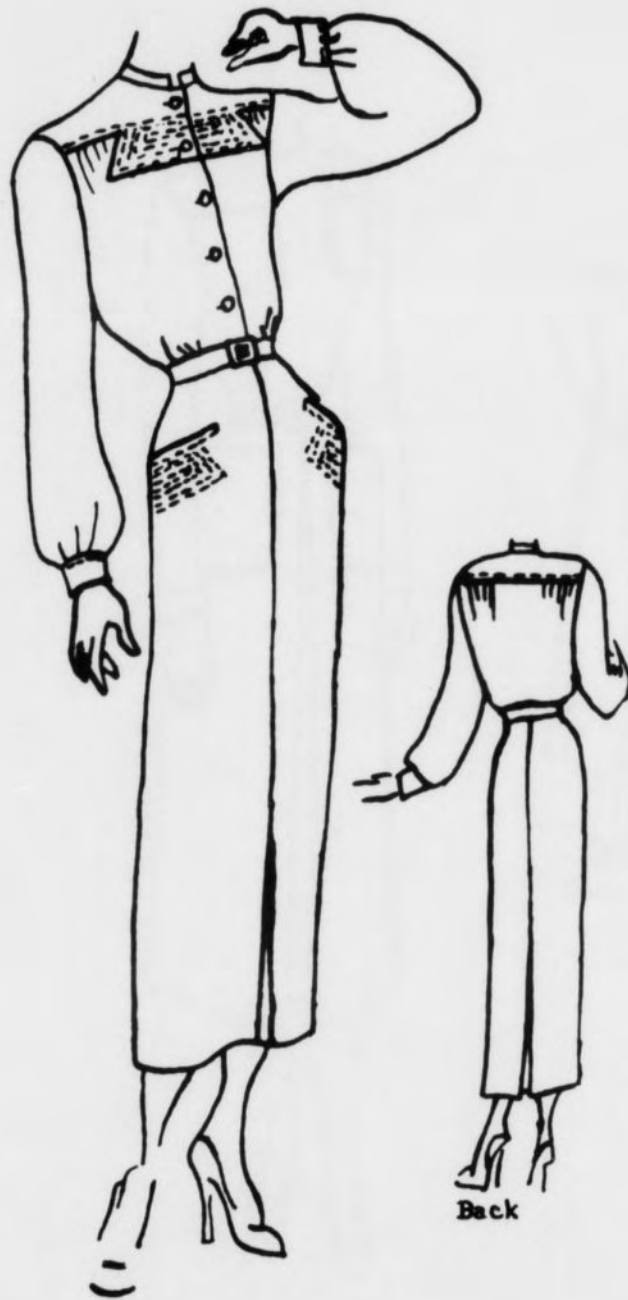


Front

Back

BRAND G - STYLE 1  
High Price

FIGURE 22



Front

Back

BRAND G - STYLE 2  
High Price

FIGURE 23



Back

Front

BRAND H - STYLE 1  
Low Price

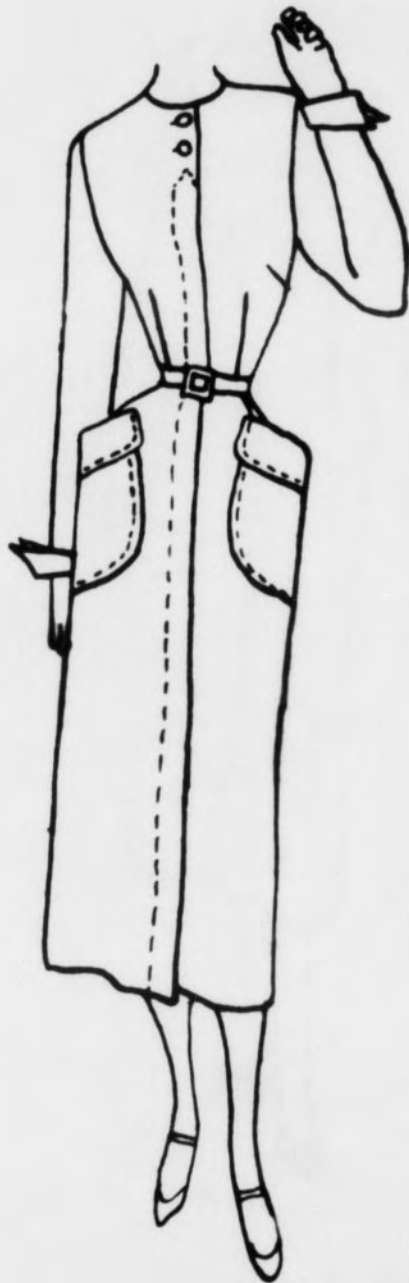
FIGURE 24



BRAND H - STYLE 2  
Low Price



FIGURE 25



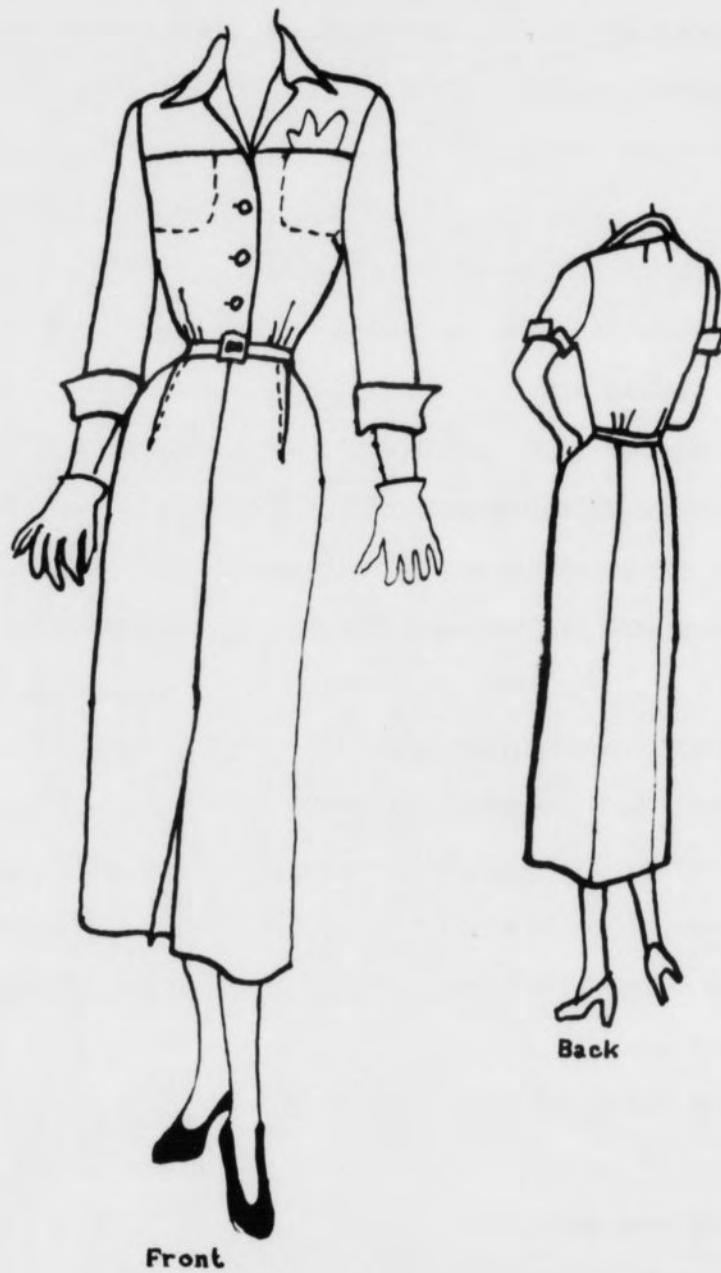
Front



Back

BRAND H - STYLE 3  
Medium Price

FIGURE 26



BRAND H - STYLE 4  
Medium Price

3. Whether they had used the findings published as Miscellaneous Publication Number 454, United States Department of Agriculture, Women's Measurements for Garment and Pattern Construction.

4. Whether there was a style number that was different from the ones selected for the study which was nearer the basic measurements they used for drafting.

Five of the eight companies supplied helpful information. Brand A used size 14 in grading Misses' patterns. Style A1 which was selected for the study was used as a basic bodice and sleeve pattern but Styles A3 and A4 had been changed due to the design. They had not used Miscellaneous Publication Number 454. The Commercial Standard CS13-44 Bulletin included Brand A as an acceptor of the standards for dress patterns. The pattern catalogue verified this fact so this question was not asked in the letter.

Brand B contributed the following information: The princess style of garment was nearer the basic measurements than a style other than princess. Princess style numbers were suggested by the company for the study but they did not meet specifications which had been established for the patterns in this study. Brand B used size 16 as a master pattern in grading other sizes. Commercial Standard CS13-44 was used except for Junior's sizes. Miscellaneous Publication Number 454 was used for grading with variations.

Brand C suggested that all of their patterns used in the study be above a given style number due to the change in the fashion trend. This recommendation was considered but only one of the patterns issued after the number suggested by the company met specifications already established for the study. For this reason, other selections were made

from the style numbers nearest the style number recommended by the company. Brand C had accepted the Bureau of Standards recommendations for Dress Patterns and continued to use them. Their master pattern for grading Misses' sizes was size 16. No comment was received concerning the use of Miscellaneous Publication Number 454.

Brand D did not reply but the pattern catalogue, pattern envelopes, and Bulletin CS13-44 stated they had accepted the Commercial Standard for Dress Patterns.

Brand F stated that Styles F1 and F2 which were selected for the study did conform to basic measurements. Size 16 pattern was used as the master pattern for grading other sizes. They followed closely the information in Miscellaneous Publication 454. The pattern catalogue and CS13-44 Bulletin stated that Brand F had accepted Commercial Standards for Dress Patterns.

Brand H used size 16 as a master pattern for grading other sizes but they did not use Miscellaneous Publication Number 454 or Bulletin CS13-44 in establishing their sizes. It was interesting to note that Bulletin CS13-44 listed this Brand as an acceptor and the company stated "no," it did not use the suggestions. A copy of the measurements of different sizes used by this company was received.

Brands E and G did not reply to the letter and no statement in the pattern catalogue or Bulletin CS13-44 indicated they had accepted or used the Commercial Standards in establishing their sizes. The measurement chart included in the pattern catalogue of Brand E did not follow the measurements suggested by the Bureau of Standards.

#### Selection of Equipment

The following equipment was used in preparing the patterns and

taking measurements:

1. Drafting board. This was placed on top of the table to assure a smooth flat surface.
2. Graph paper. (Size 21 x 16 inches. 1/10 inch scale). This was placed on top of the drafting board so the lines to be measured on the pattern could be drawn on the pattern with greater speed and accuracy.
3. Yardstick. The measurements of this wooden yardstick were checked by those on the tailor's square. The yardstick was used because the length of the tailor's square was inadequate for measuring the overarm length.
4. Tailor's square. (Lufkin). This square had metal ends and an inch was divided into sixteenths. All measurements were taken with this square except curve measurements.
5. Flexible metal tape. (Master Manufacturing Company). These measurements were checked for accuracy against the tailor's square. An inch was divided into sixteenths. This tape was used for taking all curve measurements.
6. Curve ruler. (Deitzen). Was used for drawing lines for seam allowance at waist, neck curve, armhole curve, shoulder seam, cap curve, and underarm length of the sleeve.
7. Protractor. (Post Number 1532-P). This protractor had a three-inch radius and the circumference was scaled to measure an angle as small as 1/2 degree. It was used for measuring the arc of the waist dart, shoulder dart, and neck dart.
8. Red pencil. (Dixon-fine point). This was used for drawing lines which were to be measured on the pattern.
9. Drafting tape. This was used for securing patterns to the graph paper on the drafting board until measured. It was also used for securing darts which were moved.
10. Automatic hand iron. (General Electric). The average temperature was 98 degrees Centigrade. The weight of the iron was three pounds. This was used for pressing the pattern to remove creases from folding the pattern in the envelope.
11. Dressmaker's shears. (Wiss). These were used to cut patterns when moving darts.
12. Rubber cement. (Carter's paper, non-wrinkling). This was used to apply tracing paper beneath the pattern where darts had been moved.
13. Tracing paper. (Post). This was placed on the pattern where it had been cut when necessary to move darts. Tracing paper

was used because it was more durable and wrinkled less than tissue paper.

#### Preparation of Patterns

The pieces of the pattern which were to be measured were pressed and then fastened with drafting tape over the graph paper so that the center front line or sleeve bicep width was on a straight line. The seam allowance was then marked as indicated by perforations when given for this purpose. If no perforations were given, the seam allowance stated on the guide sheet was used. In the case of printed patterns, the line indicated as the seam line was used without changes.

After the seam allowances were marked, the center front, center back or sleeve bicep width was bisected at right angles. All fullness on the blouse front was moved into one waist dart. All fullness at the waist line on the blouse back was made into one waist dart. The point of the shoulder or neck dart on the blouse back was located at a given point in relation to the across chest width. On the blouse front, when it was necessary to move underarm darts, this was done by folding out the unwanted dart and fastening it with drafting tape. The waist line dart was slit on the seam line nearest the center front to include the size of the dart which was removed. A piece of tracing paper was cemented underneath the waist dart after the dart was changed to prevent tearing or stretching of the pattern.

#### Directions for Taking Measurements

Test measurements were made on ten patterns to determine the most desirable methods for taking each measurement. The directions which were followed throughout the study in taking the measurements are listed below. The measurements were recorded to the nearest sixteenth

inch in decimal fractions on the data sheet (Page 58) for this purpose.

Blouse Front Measurements.

1. Center front length, (A-B), - measured from the base of the neck, (A), at the center front, down to the waist line, as shown by line (A-B) on the Basic pattern.<sup>2</sup>

2. Neck width, (E-C), - The center front line, (A-B), was extended up through (A) 6 inches. Then a line is drawn through the tip of the shoulder, (C), at right angles to the extension of the center front line. (E) was the point of intersection of these two lines. The front neck line width was measured on line (E-C).

3. Neck depth, (E-A), - measured on the extension of the center front line as shown by line (E-A).

4. Across shoulder, (A-D), - measured from the end of the shoulder seam at the armhole, (D), to the center front at the neck, (A), exclusive of the measurement of the shoulder dart on this line.<sup>3</sup>

5. Slope of shoulder, (D-B), - measured from the shoulder line at the armhole, (D), to the waist line at the center front, (B).<sup>4</sup>

6. Drop of shoulder, (J-D), - Line (E-C) was extended to a point beyond the end of the shoulder seam at the armhole, (D). Then a line was drawn through (D) at right angles to the extension of the center front line. (J) was the point of intersection of these two lines. The slope of the shoulder seam was measured on (J-D).

7. Shoulder seam, (C-D), - measured from the armhole to the side

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2. Esther Kaplan Pivnick, How to Design Beautiful Clothes. New York: Wm. H. Wise & Company, Inc., 1949. p. 12.

3. Ibid., p. 13.

4. Ibid., pp. 12-13.

of the neck as shown by line (C-D).<sup>5</sup> On patterns where the shoulder seam line was not located on the shoulder line, (C) was marked as the point indicated as the tip of the shoulder at the neck line and (D) was marked as the point indicated as the shoulder line at the armhole.

8. Across chest, (H-I), - From a point 3 inches below the base of the neck, (A), line (H-I) was drawn at right angles to the center front line.<sup>6</sup>

9. Bust width (K-O-L), - The center front line (A-B) was bisected and the point of bisection marked as (K). From (K) a line was ruled perpendicular to the center front (A-B). The seam line of the dart nearest the center front line, (M-FF), was extended until it intersected the perpendicular from (K) and this point was established as the point of the bust and called (O). On the underarm seam line (L) was located 7 1/8 inches from the waistline in size 16, 7 inches in size 14, 7 1/4 inches in size 18, and 7 1/2 inches in size 20.<sup>7</sup> Points (O) and (L) were connected. The bust measurement was taken on (K-O-L).

10. Upper bust width, (G-X), - measured from the armhole at the underarm seam, (X), on a line drawn from point (X) perpendicular to the center front line.<sup>8</sup>

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5. Ibid., p. 13.

6. Ibid., p. 12.

7. Ibid., pp. 12, 305.

8. Ruth O'Brien and William C. Shelton, Women's Measurements for Garment and Pattern Construction, United States Department of Agriculture, Miscellaneous Publication No. 454, Washington, D. C.: Government Printing Office, December, 1941. p. 16.



11. Full side length, (D-F), - measured from the shoulder seam at the armhole, (D), for 4 inches around the armhole, (Q), and down to the side at the waist line, as shown by line (D-Q-F).<sup>9</sup>

12. Underarm length, (X-F), - measured on the underarm seam from the armhole line at (X) to the waist line at (F), exclusive of the underarm dart.

13. Waist width, (F-B), - measured on the waist line from the underarm seam at (F) to the center front line at (B), exclusive of the waist line dart.

14. Armhole curve, (D-I-X), - measured from the shoulder line at (D) around the armhole line to the underarm seam at (X).

15. Height of bust, (K-B), - measured on line (K-B), a perpendicular to the floor, which is the distance from the point established as the point of the bust to the waist line.

16. Armhole curve, (ZZ-BB), - From (I) a line was ruled perpendicular to (H-I). From (X) a line was ruled perpendicular from (X-F) until it intersected the one drawn from (I) and the point of intersection was called (ZZ). The angle formed was bisected and indicated as (BB) where it met the armhole curve. The distance from (ZZ) to (BB) was the depth of the armhole curve.<sup>10</sup>

17. Neck curve depth, (N-AA), - From (A) a line was ruled perpendicular to (E-B). From (C) a line was ruled perpendicular from (C-D) until it intersected the one drawn from (A) and the point of intersection was called (N). The angle formed was bisected and

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9. Pivnick, op. cit., p. 13.

10. M. Rohr, Pattern Drafting and Grading. New York: M. Rohr, 240 W. 98th St., 1948. p. 7.

indicated as (AA) where it met the neck curve. The distance from (N) to (AA) was the depth of the neck line curve.<sup>11</sup>

18. Bust point width, (K-O), - measured from (K) on the center front line to the point established as the point of the bust, (O).

19. Full length, (E-B), - measured from the tip of the shoulder, (C), parallel to the center front at the waist line.<sup>12</sup> This measurement corresponded to (E-B).

20. Neck curve, (A-C), - measured around the neck line curve from (A) on the center front line to the highest point of the shoulder, (C).

21. Dart point to bust point, (O-M), - measured from (O), the point of the bust to (M), the point of the dart, on line (O-FF).

22. Armhole depth, (T-X), - From (X) a line was drawn parallel to the center front and extended beyond the shoulder line. A line was drawn from point (D) perpendicular to this line intersecting it at (T). (Z-T) is the armhole depth.

23. Armhole width, (D-T), - measured on line (D-T) which was established for taking the armhole depth measurement.

24. Shoulder to waist, (C-O-FF), - measured from the highest point of the shoulder, (C), through the point established as the point of the bust, (O), to the waist line, (FF).

25. Waist dart, (S-R), - A circle was drawn from the point established as the point of the bust with a radius of 3 inches intersecting the seam lines of the dart at (S) and (R). The number

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11. Ibid., p. 7.

12. Pivick, op. cit., p. 12.

of degrees of arc (S-R) is the size of the waist dart.

Blouse Back Measurements.

26. Center front length, (A'-B'), - measured from the base of the neck, (A'), at the center back, down to the waist line, as shown by line (A'-B').<sup>13</sup>

27. Neck width, (E'-C'), - The center back line, (A'-B'), was extended up through (A') 6 inches. Then a line was drawn through the tip of the shoulder, (C'), at right angles to the extension of the center front line. (E') was the point of intersection of these two lines. The front neck line width was measured on line (E'-C').

28. Neck depth, (E'-A'), - measured on the extension of the center back line as shown by line (E'-A').

29. Across shoulder, (A'-D'), - measured from the end of the shoulder seam at the armhole, (D'), to the center back at the neck, (A'), exclusive of the measure of the shoulder dart on this line.<sup>14</sup>

30. Slope of shoulder, (CC'-B'), - (CC') was established at a point on the shoulder line from the armhole equal to the width of shoulder dart on the shoulder line. The slope of the shoulder was measured on a line drawn connecting (CC') and (B').<sup>15</sup>

31. Drop of shoulder, (J'-D'), - Line (E'-C') was extended to a point beyond the end of the shoulder seam at the armhole, (D'). Then a line was drawn through (D') at right angles to the extension of the center back line. (J') was the point of intersection of these

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13. Ibid., p. 19.

14. Ibid., p. 20.

15. Ibid., p. 20.

two lines. The slope of the shoulder seam was measured on (J'-D).

32. Shoulder seam, (C'-D'), - measured from the armhole to the side of the neck as shown by line (C'-D').<sup>16</sup> On patterns where the shoulder seam line was not located on the shoulder line, (C') was marked as the point indicated as the tip of the shoulder at the neck line and (D') was marked as the point indicated as the shoulder line at the armhole.

33. Shoulder draft width, (E'-J'), - measured on line (E'-J') inclusive of the dart on the shoulder seam.<sup>17</sup>

34. Across chest, (H'-I'), - Four inches down from the neck on the center back line was marked (H') and a perpendicular was then ruled from this point to intersect the armhole line. The point where the perpendicular intersected the armhole line was marked as (I').<sup>18</sup>

35. Bust width, (K'-L'), - On the underarm seam line (L') was located 7 1/8 inches from the waist line in size 16, 7 inches in size 14, 7 1/4 inches in size 18, and 7 1/2 inches in size 20.<sup>19</sup> From (L') a line was ruled perpendicular to the center back line. The point where this perpendicular intersects the center back line was marked (K'). The bust was measured on line (K'-L') exclusive of the waist dart.

36. Upper bust width, (G'-X'), - measured from the armhole at

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16. Ibid., p. 20.

17. Ibid., p. 19.

18. Charles Kaplan and Esther Kaplan, Principles and Problems of Pattern Making as Applied to Women's Apparel. New York: Streimin Studio, 1265 Broadway. 1939. p. 8.

19. Pivnick, op. cit., pp. 12, 305.

the underarm seam, (X'), on a line drawn from point (X') perpendicular to the center back line.<sup>20</sup>

37. Full side length, (D'-F'), - measured from the shoulder seam at the armhole, (D'), for 4 inches around the armhole, (Q'), and down to the side seam at the waist line, as shown by line (D'-Q'-F').<sup>21</sup>

38. Underarm length, (X'-F'), - measured on the underarm seam from the armhole line at (X') to the waist line at (F').

39. Waist width, (F'-B'), - measured on the waist line from the underarm seam at (F') to the center back line at (B').

40. Armhole curve, (C'-I'-X'), - measured from the shoulder line at (D') around the armhole line to the underarm seam at (X').

41. Full length, (E'-B'), - measured from the tip of the shoulder, (C'), parallel to the center back at the waist line.<sup>22</sup> This measurement corresponded to (E'-B').

42. Neck curve, (A'-C'), - measured around the neck line curve from (A') on the center back line to the highest point of the shoulder, (C').

43. Neck curve depth, (N'-AA'), - From (A') a line was ruled perpendicular to (E'-B'). From (C') a line was ruled perpendicular from (C'-D') until it intersected the one drawn from (A') and the point of intersection was called (N'). The angle formed was bisected and indicated as (AA') where it met the neck curve. The distance

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20. O'Brien, *op. cit.*, p. 12.

21. Pivnick, *op. cit.*, p. 20.

22. *Ibid.*, p. 19.

from (N') to (AA') was the depth of the neck line curve.<sup>23</sup>

44. Armhole curve, (XX'-BB'), - From (I') a line was ruled perpendicular to (H'-I'). From (X') a line was ruled perpendicular from (X'-F') until it intersected the one drawn from (I') and the point of intersection was called (ZZ'). The angle formed was bisected and indicated as (BB') where it met the armhole curve. The distance from (ZZ') to (BB') was the depth of the armhole curve.<sup>24</sup>

45. Armhole depth, (Z'-X'), - From (X') a line was drawn parallel to the center back and extended beyond the shoulder line. A line was drawn from point (D') perpendicular to this line intersecting it at (Z'). (X'-Z') is the armhole depth.

46. Armhole width, (D'-Z'), - measured on line (D'-Z') which was established for taking the armhole depth measurement.

47. Arc of the shoulder dart, (T-V), - On (H'-I') point (EE) was located 5 inches from the center back line. From (EE) a circle was drawn with a radius of 3 inches intersecting the shoulder dart at (T) and (V). The number of degrees of arc (T-V) is the size of the shoulder dart.

48. Arc of the neck line dart. (W-XX), - On (H'-I') point (DD) was located 1 1/2 inches from the center back line. From (DD) a circle was drawn with a radius of 3 inches intersecting the neck dart at (W) and (XX). The number of degrees of arc (W-XX) is the size of the neck line dart.

49. Arc of the waist line dart, (R'-S'), - The point of the

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23. Rohr, op. cit., p. 6.

24. Ibid., p. 6.

waist dart was raised to the line drawn perpendicular to the center back line and bisecting it and indicated as (O'). The seam lines of the dart were drawn to this point. From (O') a circle was drawn with a radius of 3 inches intersecting the waist dart at (R') and (S'). The number of degrees of arc (R'-S') is the size of the waist dart.

Sleeve Measurements.

50. Bicep width, (C-D), - measured on a line drawn from the point of intersection of the armhole and underarm seams on the front and back of the sleeve, points (C) and (D) respectively.<sup>25</sup>

51. Overarm length, (A-B), - Line (C-D) was bisected and from this point, (J), a line was drawn at right angles to (C-D) extending to the cap of the sleeve and to the wrist.<sup>26</sup>

52. Sleeve cap height, (A-J), - measured on the overarm line from the top of the sleeve, (A), to the point of intersection of the overarm and sleeve girth lines, (J).

53. Overarm to elbow, (A-K), - Bisect the overarm line from (J) to (B). One inch above the point of bisection mark (K). (A-K) is the overarm measurement from top of sleeve to the elbow.

54. Underarm length, (C-G), - measured from the armhole, (C), to the wrist, (G), on the underarm seam on the front side of the sleeve.

55. Underarm length from bicep to elbow, (C-E), - measured from the armhole, (C), to the elbow, (E), on the underarm seam on the

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25. Pivnick, op. cit., p. 110.

26. Ibid., p. 110.

front side of the sleeve.

56. Elbow girth, (E-F), - measured on a line drawn at right angles to the overarm length measurement from (K).<sup>27</sup>

57. Wrist girth, (G-H), - measured on the wrist line from (G) on the front of the underarm seam to (H) on the back of the underarm seam.<sup>28</sup>

58. Cap curve, (C-A-D), - measured around the sleeve cap beginning with the underarm seam at point (C) through (A) on the top of the sleeve to (D) on the underarm seam.

#### Total Measurements

59. Waist width - The front and back waist line measurements were added and multiplied by 2.

60. Bust width - The front and back bust measurements were added and multiplied by 2.

61. Armhole curve - The front and back armhole curve measurements were added.

62. Neck curve, (A'-C'C-A), - measured from the center back, (A'), through the shoulder tip, (C'C), to the center front, (A), and multiplied by 2.

#### Specific Alterations in Patterns

Specific changes not included in general directions were made on some of the patterns. These are listed below.

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27. Ibid., p. 110.

28. Ibid., p. 111.



\_\_\_\_\_ Pattern brand  
 \_\_\_\_\_ Pattern number  
 \_\_\_\_\_ Code number  
 \_\_\_\_\_ Size

## DATA SHEET

BLOUSE FRONT

## (Linear Measurements)

_____ in.	1.	(A-B)	Center front length
_____ in.	2.	(E-C)	Neck width
_____ in.	3.	(E-A)	Neck depth
_____ in.	4.	(A-D)	Across shoulder
_____ in.	5.	(D-B)	Slope of shoulder
_____ in.	6.	(J-D)	Drop of shoulder
_____ in.	7.	(C-D)	Shoulder seam
_____ in.	8.	(H-I)	Across chest
_____ in.	9.	(K-L)	Bust width
_____ in.	10.	(G-X)	Upper bust width
_____ in.	11.	(D-F)	Full side length
_____ in.	12.	(X-F)	Underarm length
_____ in.	13.	(F-B)	Waist width
_____ in.	14.	(D-I-X)	Armhole curve
_____ in.	15.	(K-B)	Height of bust
_____ in.	16.	(ZZ-BB)	Armhole curve depth
_____ in.	17.	(N-AA)	Neck curve depth
_____ in.	18.	(K-O)	Bust point width
_____ in.	19.	(E-B)	Full length
_____ in.	20.	(A-C)	Neck curve
_____ in.	21.	(O-M)	Dart point to bust point
_____ in.	22.	(T-X)	Armhole depth
_____ in.	23.	(D-T)	Armhole width
_____ in.	24.	(C-O-FF)	Shoulder to waist

## (Angular Measurements)

_____ °	25.	(S-R)	Waist dart
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BLOUSE BACK

## (Linear Measurements)

_____ in.	26.	(A'-B')	Center back length
_____ in.	27.	(E'-C')	Neck width
_____ in.	28.	(E'-A')	Neck depth
_____ in.	29.	(A'-D')	Across shoulder
_____ in.	30.	(D'-B')	Slope of shoulder
_____ in.	31.	(J'-D')	Drop of shoulder

\_\_\_\_\_ Pattern brand  
 \_\_\_\_\_ Pattern number  
 \_\_\_\_\_ Code number  
 \_\_\_\_\_ Size

BLOUSE BACK (Continued)

_____ in.	32.	(D'-C')	Shoulder seam
_____ in.	33.	(E'-J')	Across back shoulders draft width
_____ in.	34.	(H'-I')	Across chest
_____ in.	35.	(K'-L')	Bust width
_____ in.	36.	(G'-X')	Upper bust width
_____ in.	37.	(D'-F')	Full side length
_____ in.	38.	(X'-F')	Underarm length
_____ in.	39.	(F'-B')	Waist width
_____ in.	40.	(D'-I'-X')	Armhole curve
_____ in.	41.	(E'-B')	Full length
_____ in.	42.	(A'-C')	Neck curve
_____ in.	43.	(N'-AA')	Neck curve depth
_____ in.	44.	(ZZ'-BB')	Armhole curve depth
_____ in.	45.	(Z'-X')	Armhole depth
_____ in.	46.	(Z'-D')	Armhole width

## (Angular Measurements)

_____ °	47.	(T-V)	Shoulder dart
_____ °	48.	(W-XX)	Neck line dart
_____ °	49.	(R'-S')	Waist line dart

SLEEVE

## (Linear Measurements)

_____ in.	50.	(C-D)	Bicep width
_____ in.	51.	(A-B)	Overarm length
_____ in.	52.	(A-J)	Sleeve cap height
_____ in.	53.	(A-K)	Overarm to elbow
_____ in.	54.	(C-G)	Underarm length
_____ in.	55.	(C-E)	Underarm length from bicep to elbow
_____ in.	56.	(E-F)	Elbow girth
_____ in.	57.	(G-H)	Wrist girth
_____ in.	58.	(C-A-D)	Cap curve

TOTAL MEASUREMENTS

_____ in.	59.	Waist (add numbers 13 and 39)
_____ in.	60.	Bust (add numbers 9 and 35)
_____ in.	61.	Armhole curve (add numbers 14 and 40)
_____ in.	62.	Neck curve (add numbers 20 and 42)

Pattern A2.

This pattern had a yoke with a zipper closing the neck opening to the neck curve.

The yoke center front seam curved  $1/5$  inch off the straight of material. The yoke was placed on the blouse front on the seam line. This made the straight of material in the yoke perpendicular to the center front of the blouse. The measurement was made on a straight line between points A and B.

Pattern A3.

The neck dart on the blouse front was folded into the waist dart. The neck line was redrawn to meet the center front line at point A.

Pattern A4.

The underarm dart was moved to the waist line by bisecting the dart and extending this line to meet the line which bisected the center front. This point of intersection was the point of bust. The inside of the waist line dart was placed  $2 \frac{1}{8}$  inches from the center front at the waist line.

There appeared to be a shoulder dart put in at the yoke seam line. This was moved to the waist dart in the blouse front and back.

Pattern B1.

The inside of the shoulder dart seam was extended to the waist line. A line bisecting and drawn perpendicular to the center front was extended to intersect the shoulder dart. The shoulder dart and underarm dart were folded into a waist dart from the point of the bust using the line extended from the shoulder dart to the waist as the inside of the waist dart.

Pattern B3.

Two waist darts and the underarm dart were combined into one waist dart by using the dart line nearest the center front for the seam line of the dart. The point of the bust was located on the line perpendicular to and bisecting the center front. This point was determined by extending a line from a point midway between the points of two waist darts to the line which was perpendicular to the center front.

Pattern B4.

The blouse left front was used for measurements.

Pattern B5.

Three waist darts were combined with the underarm dart on the blouse front to form one waist dart. The seam line nearest the center front of the middle waist dart was used as the line for the inside seam of the new dart.

## Pattern C3.

The underarm darts were moved to a waist dart on the blouse front. The center front was bisected. A line was extended from this point perpendicular to the center front. The top seam of the upper underarm dart was extended to meet the line drawn perpendicular to the center front. The point where these two lines intersected was the point of the bust. The inside seam line of the dart was placed  $2 \frac{1}{2}$  inches from the center front at the waist.

A dart spreading to  $\frac{7}{16}$  inch at the waist line was on the center front seam. This was added on a line from the center front seam at the waist to the point established as the point of the bust.

## Pattern C4.

The yoke had no irregularities.

The two waist darts and underarm dart were combined to make one waist dart. A line was ruled from the midpoint of the inside waist dart to the bust point for the new inside dart line.

## Pattern E1.

Measurements were made on the left half of the blouse front.

The front waist dart extended  $\frac{1}{2}$  inch above the point established as the point of the dart. The back waist dart extended  $\frac{11}{16}$  inch above the point established as the point of the dart.

## Pattern E2.

The underarm dart was changed to a waist dart. The inside seam line of the dart was placed  $3 \frac{1}{2}$  inches from the center front line with the bust point of the waist dart coinciding with the point of the underarm dart.

## Pattern G1.

The tucks on the blouse front were combined with the underarm dart. The seam line was established  $2 \frac{5}{8}$  inches from the center front line at the waist line. The bust point was located  $4 \frac{3}{16}$  inches from the center front line as on the Basic pattern.

The waist tucks on the blouse back were made into one waist dart. The inside seam line was  $3 \frac{1}{2}$  inches from the center back line at the waist line and the point of bust was  $4 \frac{1}{16}$  inches from the center back line on the perpendicular line which bisected the center back line.

The sleeve girth measurement was taken on the line marked as the sleeve hem line.

#### Pattern G2

This pattern was considered a poor selection for the study after examination. The pattern could not be put together by any of the principles given in pattern drafting manuals.

The center front line was not on the grain line.

On the blouse front, the  $2 \frac{7}{16}$  inches for gathers on the waist line and the  $\frac{3}{4}$  inch ease at the yoke seam line were combined into a waist dart.

On the blouse back, the gathers at the yoke seam line and the  $1 \frac{3}{4}$  inches for gathers on the waist line were combined to make a waist dart. The inside seam of the dart was located  $3 \frac{1}{2}$  inches from the center back on the waist line. The dart point was located on the perpendicular line which bisected the center front 4 inches from the center front.

#### Pattern H2.

The underarm dart and two waist dart tucks were combined into one waist dart. The top seam line of the underarm dart was extended to intersect the line bisecting A-B, the center front line. The point of intersection of these two lines was considered the point of the dart. The inside seam line of the waist dart was placed  $3 \frac{1}{2}$  inches from the center front line on the waist line.

The two back waist darts were made into one waist dart. The inside dart line was ruled from a point  $3 \frac{1}{2}$  inches from the center back line to a point  $4 \frac{1}{2}$  inches from the center back line on the line that bisected the center back line.

#### Pattern H4.

There was no waist dart on the blouse front. The amount of fullness was not stated. The waist was  $2 \frac{3}{8}$  inches greater than the skirt and this was made into a dart. The inside of the dart line was placed at the point on the waist line near the center front indicated as the beginning of the fullness. The point of the dart was placed  $3 \frac{1}{2}$  inches from the center front line on the line bisecting the center front line.

The underarm dart was moved to the waist dart.

The yoke and waist had a dart into the armhole. This was folded into the waist dart.

## CHAPTER III

### ANALYSIS OF DATA

#### Variations from the Basic Pattern in the Measurements of Size 16 Patterns

##### 1. Brand A. (4 patterns)

The comparison of the variations from the Basic pattern of the Brand A patterns is shown in Table II.<sup>1</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table III.

On the blouse front the measurement of the neck curve in all patterns was greater. In general, the measurements of the shoulder and chest were slightly greater and the waist measurement was slightly less. There was greater variation in the bust width than in the upper bust width. While the depth of the armhole curve and the depth of armhole were greater, the width of the armhole was less. Unusual differences were noted in the length measurements: the shoulder to waist measurement and slope of shoulder were greater by more than 1/2 inch; the underarm length was less in all the patterns; the full side length was more than 4 inches greater; and the center front length was slightly less in two patterns. The drop of the shoulder did not vary in A1, was slightly less in A2 and greater in A3 and A4. The arc of the dart<sup>2</sup> varied from 5 degrees greater to 2 degrees less than the Basic pattern.

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1. Measurements are given in Appendix Table I.

2. The measurement taken was the arc of a circle formed from the dart point with a 3 inch radius to intersect the seam lines of the dart.

The neck curve measurements of the blouse back were less than the Basic pattern. The shoulder measurements were slightly greater. The guide sheet stated "ease" for the blouse back shoulder seam on A2. The chest width was slightly greater in all except A4. In all patterns, bust, upper bust, and waist widths were less. The bust and above bust variations were diametrically different from those of the front, the above bust variations being greater than those of the bust. The waist of A4 was more than 1 1/2 inches less than the Basic pattern. The armhole curve was greater but the width was less. The center front, full side, and full lengths were greater. The underarm length and drop of shoulder were less. The arc of the dart varied from 1 1/2 degrees to 8 1/2 degrees.

In the sleeve, the bicep measurement was slightly less, whereas the cap height was greater. The overarm to the elbow varied from 1/2 to 1 inch more, though the underarm was less. The cap curve was greater.

The following general likenesses, differences, and correlations were noted. In the neck and armhole measurements, when the width was greater the length was less, or vice versa. The chest measurements in all Brand A patterns were greater than that of the Basic pattern. When the bust measurement was greater in the front, it was less in the back. In the front and back the waist width was less, indicating a smaller total waist width than the Basic pattern. There appeared to be a correlation between the height of the sleeve cap, the depth of the armhole and the greater length of the cap curve; the greater drop of shoulder and full side length of the blouse front and the slightly greater full side length and lesser drop of shoulder in the blouse back; and the greater drop of shoulder, armhole depth, and sleeve cap height. The

suggested use of shoulder pads appeared to be related to the greater slope of shoulder and full side length.

The variations of the different pieces of pattern are shown in Diagrams VII, VIII, and IX.



TABLE II

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Blouse Front

Number	Name of Measurement	Variations*			
		A1	A2	A3	A4
1.	Center front length	- .0625	.0000	- .1875	.0000
2.	Neck width	+ .1250	+ .6875	- .2500	- .0625
3.	Neck depth	+ .4375	- .2500	+ .9375	+ .7500
4.	Across shoulder	+ 1.0000	+ .9375	+ .7500	+ .9375
5.	Slope of shoulder	+ .6250	+ .5625	+ .8125	+ .6250
6.	Drop of shoulder	.0000	- .1250	+ .1250	+ .4375
7.	Shoulder seam	+ .8125	+ .8125	+ .8125	+ 1.0625
8.	Across chest	+ .5625	+ .6250	+ .5625	+ .5000
9.	Bust width	+ .6875	+ .3750	+ .8125	+ .6250
10.	Upper bust width	+ .3750	+ .0625	+ .2500	+ .3125
11.	Full side length	+ 4.6250	+ 4.4375	+ 4.3750	+ 4.5625
12.	Underarm length	- .6250	- .6250	- .6250	- .7500
13.	Waist width	- .0625	- .2500	.0000	- .0625
14.	Armhole curve	+ .5000	+ .1875	+ .4375	+ .6875
15.	Height of bust	+ .0625	.0000	- .1250	.0000
16.	Armhole curve depth	+ .1875	+ .1250	+ .1875	+ .1250
17.	Neck curve depth	- .1875	+ .1250	- .0625	- .0625
18.	Bust point width	+ .2500	+ .6875	- .0625	- .8125
19.	Full length	+ .7500	+ .3125	+ .6250	+ .3125
20.	Neck curve	+ .7500	+ .3125	+ .6250	+ .3125
21.	Dart point to bust point	+ .1875	--**	+ .5000	--
22.	Armhole depth	+ 1.3125	+ 1.0625	+ .8750	+ .3750
23.	Armhole width	- .6250	- .6875	- .3125	- .5625
24.	Shoulder to waist	+ .5625	+ .5625	+ 1.1250	+ .8125
25.	Waist dart	- 1.5°	+ 1.5°	+ 5.0°	- 2.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE II (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Blouse Back

Number	Name of Measurement	Variations*			
		A1	A2	A3	A4
26.	Center back length	+ .1875	+ .5625	+ .3750	+ .5000
27.	Neck width	- .5625	+ .0625	- .5625	- .6875
28.	Neck depth	- .1875	.0000	- .3125	.0000
29.	Across shoulder	+ .4375	+ .3750	+ .3750	+ .3125
30.	Slope of shoulder	+ 1.3125	+ 2.4375	+ .1250	+ .8750
31.	Drop of shoulder	- .6875	- .0625	- .2500	- .4375
32.	Shoulder seam	+ .6875	+ .5625	+ .7500	+ .8125
33.	Shoulder draft width	+ 1.5000	+ .2500	+ .4375	.0000
34.	Across chest	+ .2500	+ .1250	+ .3750	- .0625
35.	Bust width	- .3125	- .1250	- .1875	- .1250
36.	Upper bust width	- .3750	- .1875	- .2500	- .5625
37.	Full side length	+ .1875	+ .4375	+ .1250	+ .7500
38.	Underarm length	- .5625	- .5000	- .5000	- .6875
39.	Waist width	- .6250	- .3125	- .5000	- 1.5625
40.	Armhole curve	+ .5625	+ .5625	+ .3750	+ .7500
41.	Full length	+ .0625	+ .5625	+ .0625	+ .4375
42.	Neck curve	- .3750	- .1875	- .6875	- .6250
43.	Neck curve depth	- .1250	- .1250	- .1250	- .1875
44.	Armhole curve depth	- .2500	+ .1250	- .2500	+ .1875
45.	Armhole depth	+ .8750	+ .9375	+ .7500	+ 1.2500
46.	Armhole width	- .9375	- .5000	- .8750	- .6250
47.	Shoulder dart	- .5°	--**	+ .5°	--
48.	Neck dart	--**	--	--	--
49.	Waist dart	+ 1.5°	+ 5.5°	+ 1.5°	+ 8.5°

TABLE II (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Sleeve

Number	Name of Measurement	Variations*			
		A1	A2	A3	A4
50.	Bicep	- .2500	- .1250	- .3750	- .1250
51.	Overarm length	+ .4375	- 3.5625	+ .3125	+ .1875
52.	Sleeve cap height	+ .3750	+ .3125	+ .6875	+ .3750
53.	Overarm to elbow	+ .9375	+ .6875	+ 1.0000	+ .8125
54.	Underarm length	- .3750	- 3.1250	- .4375	- .3750
55.	Underarm length from bicep to elbow	+ .6250	- .9375	+ .3750	+ .5000
56.	Elbow girth	- .6250	--**	- .9375	- .8750
57.	Wrist girth	--**	--	+ .3125	+ .2500
58.	Cap curve	+ .2500	+ .1250	+ .3750	+ .3125

TABLE III

MAXIMUM, MINIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	.0000	- .1875	- .0625
2.	Neck width	- .0625	‡ .6875	‡ .1250
3.	Neck depth	- .2500	‡ .9375	‡ .4688
4.	Across shoulder	‡ .7500	‡ 1.0000	‡ .9313
5.	Slope of shoulder	‡ .5625	‡ .8125	‡ .6563
6.	Drop of shoulder	.0000	‡ .4375	‡ .1094
7.	Shoulder seam	‡ .8125	‡ 1.0625	‡ .8750
8.	Across chest	‡ .5000	‡ .6250	‡ .5625
9.	Bust width	‡ .3750	‡ .8125	‡ .6250
10.	Upper bust width	‡ .0625	‡ .3750	‡ .2500
11.	Full side length	‡ 4.3750	‡ 4.6250	‡ 4.5000
12.	Underarm length	- .6250	- .7500	- .6563
13.	Waist width	.0000	- .2500	- .0938
14.	Armhole curve	‡ .1875	‡ .6875	‡ .4531
15.	Height of bust	.0000	- .1250	- .0156
16.	Armhole curve depth	‡ .1250	‡ .1875	‡ .1563
17.	Neck curve depth	- .0625	- .1875	- .0469
18.	Bust point width	- .0625	- .8125	‡ .0156
19.	Full length	‡ .3125	‡ .8125	‡ .5625
20.	Neck curve	‡ .3125	‡ .7500	‡ .5000
21.	Dart point to bust point	‡ .1875	‡ .5000	‡ .3438
22.	Armhole depth	‡ .8750	‡ 1.3750	‡ 1.1563
23.	Armhole width	- .3125	- .6875	- .5469
24.	Shoulder to waist	‡ .5625	‡ 1.1250	‡ .7656
25.	Waist dart	- 1.5°	‡ 5.0°	‡ .8°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE III (Continued)

MAXIMUM, MINIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Blouse Back

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	± .1875	± .5625	± .4063
27.	Neck width	± .0625	- .6875	- .4375
28.	Neck depth	.0000	- .3125	- .1250
29.	Across shoulder	± .3125	± .4375	± .3750
30.	Slope of shoulder	± .1250	± 2.4375	± 1.1875
31.	Drop of shoulder	- .0625	- .6875	- .3594
32.	Shoulder seam	± .5625	± .8125	± .7031
33.	Shoulder draft width	.0000	± 1.5000	± .5469
34.	Across chest	- .0625	± .3750	± .1719
35.	Bust width	- .1250	- .3125	- .1881
36.	Upper bust width	- .1875	- .5625	- .3438
37.	Full side length	± .1250	± .7500	± .3750
38.	Underarm length	- .5000	- .6875	- .5625
39.	Waist width	- .3125	- 1.5625	- .7500
40.	Armhole curve	± .3750	± .7500	± .5625
41.	Full length	± .0625	± .5625	± .2813
42.	Neck curve	- .1875	- .6875	- .4688
43.	Neck curve depth	- .1250	- .1875	- .1409
44.	Armhole curve depth	± .1250	- .2500	- .0469
45.	Armhole depth	± .7500	± 1.2500	± .9531
46.	Armhole width	- .5000	- .9375	- .7344
47.	Shoulder dart	± .5°	± .5°	.0000
48.	Neck dart	--**	--	--
49.	Waist dart	± 1.5°	± 8.5°	± 4.3°

TABLE III (Continued)

MAXIMUM, MINIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND A

Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	- .1250	- .3750	- .2188
51.	Overarm length	± .1875	- 3.5625	- .6563
52.	Sleeve cap height	± .3125	± .6875	± .4375
53.	Overarm to elbow	± .6875	± 1.0000	± .8594
54.	Underarm length	- .3750	- 3.1250	- 1.0781
55.	Underarm length from bicep to elbow	± .3750	- .9375	± .1406
56.	Elbow girth	- .6250	- .9375	- .8125
57.	Wrist girth	± .2500	± .3125	± .2813
58.	Cap curve	± .1250	± .3750	± .2625

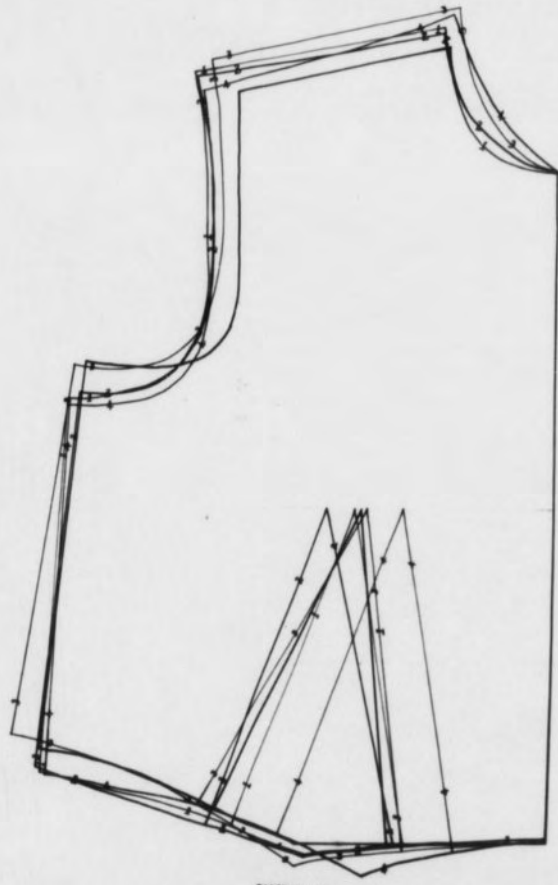


DIAGRAM VII  
Variations From The Basic Pattern  
In Brand A Patterns  
Blouse Front

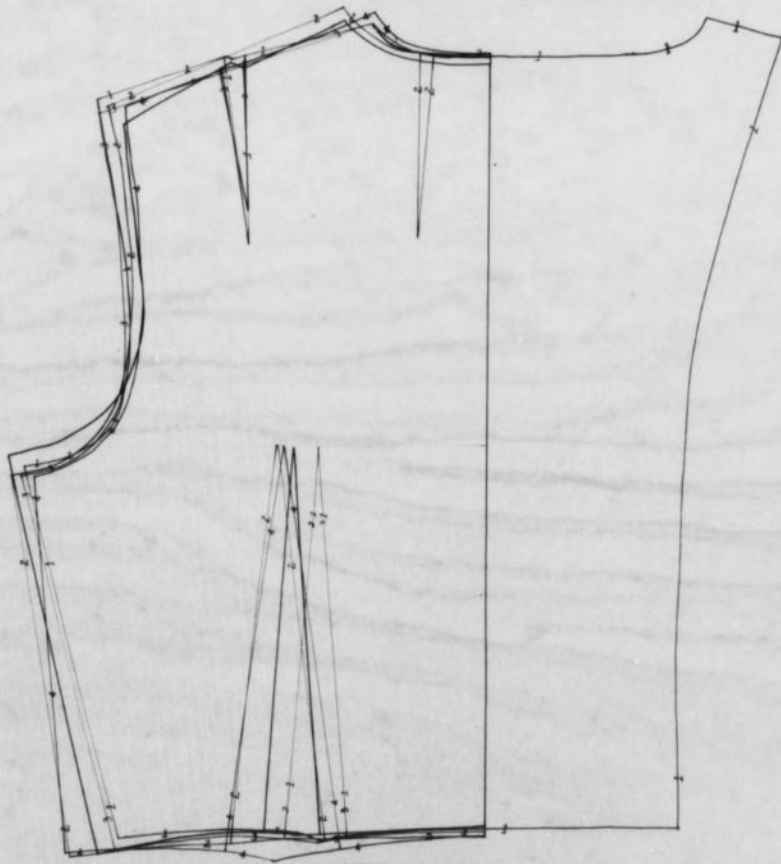
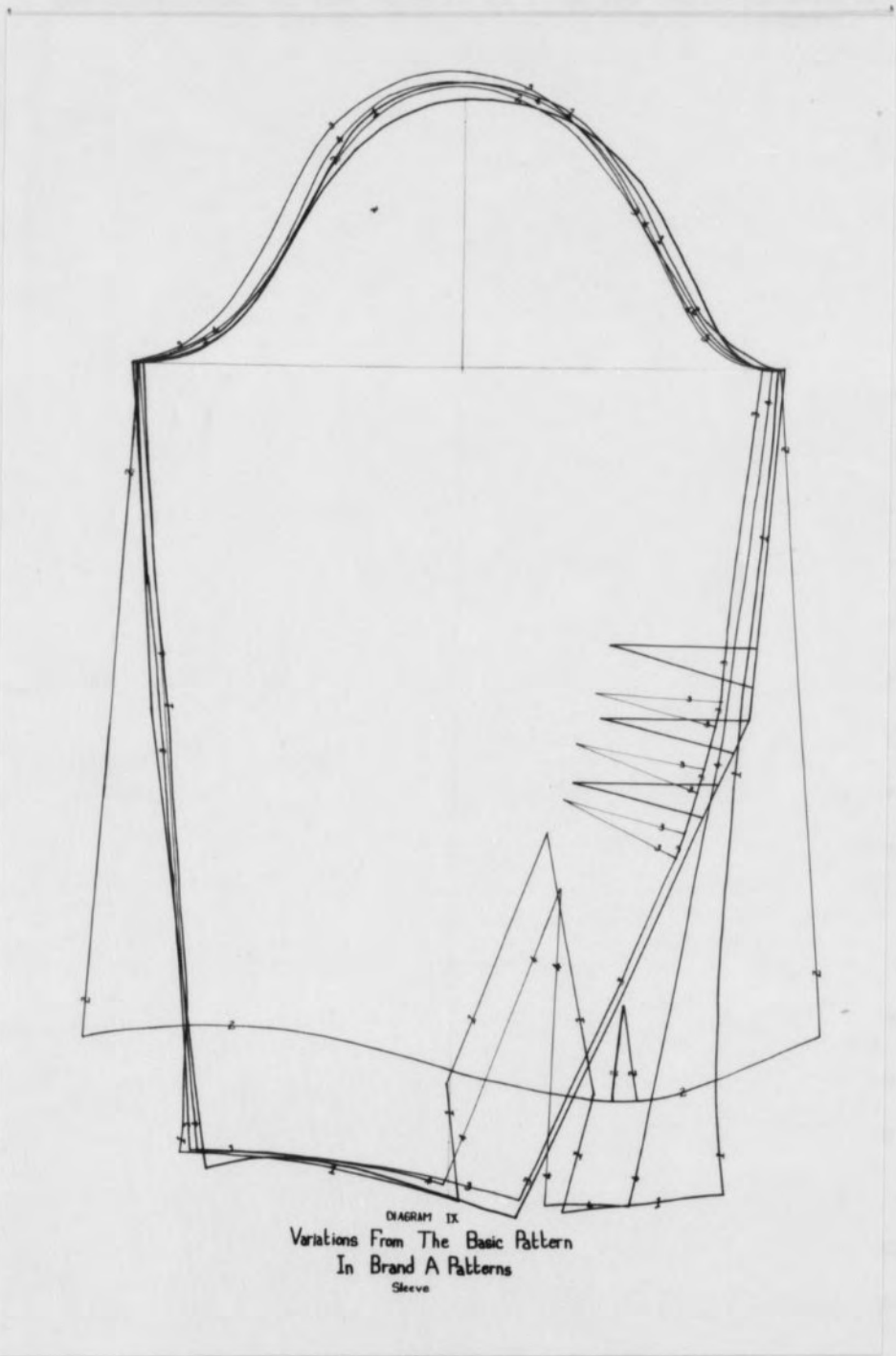


DIAGRAM VIII  
Variations From The Basic Pattern  
In Brand A Patterns  
Blouse Back





## 2. Brand B. (6 patterns)

The comparison of the variations from the Basic pattern of the Brand B patterns is shown in Table IV.<sup>3</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table V.

On the blouse front the neck curve and width were greater in all patterns. The neck depth was greater in all except B5 which was 1/2 inch less. The chest and shoulder measurements were greater in all patterns. The bust and upper bust widths were greater in three patterns and less in three patterns, B1 being 1 1/16 inches greater. The armhole width was slightly less but the depth was more than 1 inch greater in each pattern. The center front length was greater in B1 and B2 but less in B4, B5, and B6 by 1/4 inch or more. The full side length was more than 4 inches greater in all patterns but the full length was slightly greater in B1, B2, and B3 and slightly less in B4 and B5. The drop of the shoulder, slope of shoulder, and shoulder to waist were slightly greater. In general, the underarm length was from 3/4 to 1 inch less. The arc of the waist dart varied from 2 1/2 degrees to 9 degrees less than the Basic pattern.

The neck width, depth, curve, and curve depth measurements of the blouse back were less except the depth of B6 which was 7/8 inch greater. The shoulder and chest measurements were greater, but the bust and waist were at least 1/2 inch less in most of the patterns. The armhole curve was slightly greater, the depth was greater by at least 1 inch, and the width was less by at least 1 inch. The full side length was greater in all patterns and the full length was slightly greater in

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3. Measurements are given in Appendix Table II.

all except B1 and B3. The drop of the shoulder was approximately 1/2 inch less. The slope of the shoulder was slightly greater in B1, B2, and B4, and slightly less in B3 and B6. The underarm length was 3/4 inch or more less than the Basic pattern.

In the sleeve the bicep measurement was slightly less, whereas the cap height was slightly greater. The cap curve was greater in B1, B4, and B6, but it was less in B2, B3, and B5.

The following likenesses, differences, and correlations were noted. The neck width and depth were greater in the blouse front but less in the blouse back. All chest and shoulder measurements in Brand B patterns were greater than the Basic pattern. The bust measurements were greater on the blouse front but less on the blouse back. The total waist width was greater than the Basic pattern in B1 and B6, but in the other four it was less. There appeared to be a correlation between the greater neck and shoulder widths and the lesser armhole width. Another correlation seemed apparent with the greater armhole depth, armhole curve, sleeve cap height, and the use of shoulder pads. The greater slope of shoulder, drop of shoulder and full side length on the blouse front appeared to be related to the slightly greater slope of shoulder, lesser drop of shoulder and slightly greater full side length of the blouse back.

The variations of the different pieces of pattern are shown in Diagrams X, XI, and XII.

TABLE IV

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Blouse Front

Number	Name of Measurement	Variations*				
		B1	B2	B3	B4	
1.	Center front length	+ .5625	+ .1250	.0000	- .2500	-
2.	Neck width	+ .2500	+ .2500	+ .3750	+ .2500	+
3.	Neck depth	+ .1250	+ .1250	+ .0625	+ .1875	-
4.	Across shoulder	+ .7500	+ .6875	+ .7500	+ .8125	+
5.	Slope of shoulder	+ .8750	+ .3750	+ .3750	+ .1875	+
6.	Drop of shoulder	+ .0625	+ .1250	+ .1250	+ .0625	+
7.	Shoulder seam	+ .5625	+ .6250	+ .4375	+ 1.0000	+
8.	Across chest	+ .1250	+ .2500	+ .4375	+ .2500	+
9.	Bust width	+ .3750	+ .3125	+ .3125	+ .4375	+
10.	Upper bust width	.0000	.0000	+ .0625	+ .1250	+
11.	Full side length	+ 4.6250	+ 4.1875	+ 4.5000	+ 4.4375	+ 4
12.	Underarm length	- .7500	- 1.0000	- .8125	- .8750	-
13.	Waist width	+ 1.0625	- .1875	+ .0625	- .2500	-
14.	Armhole curve	+ .6250	+ .3750	+ .2500	+ .5625	+ 1
15.	Height of bust	+ .2500	+ .0625	- .0625	- .1250	-
16.	Armhole curve depth	+ .3750	+ .2500	+ .2500	+ .2500	+
17.	Neck curve depth	.0000	- .2500	- .1250	- .1250	-
18.	Bust point width	- .2500	- .5625	+ .0625	- .1875	+
19.	Full length	+ .7500	+ .1875	+ .0625	- .0625	-
20.	Neck curve	+ .4375	+ .4375	+ .4375	+ .4375	+
21.	Dart point to bust point	--**	+ .6875	--	--	
22.	Armhole depth	+ 1.2500	+ 1.3125	+ 1.3125	+ 1.3125	+ 1
23.	Armhole width	- .7500	- .7500	- .7500	- .6875	-
24.	Shoulder to waist	+ .7500	+ .1875	+ .1875	+ .2500	+
25.	Waist dart	- 9.0°	- 4.0°	- 8.0°	- 2.5°	- 4

\*Variations are given in inches except for variations 25, 47, 48, and 49, in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE IV

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Blouse Front

Variations*										
B1	B2	B3	B4	B5	B6					
.5625	+	.1250		.0000	-	.2500	-	.3750	-	.2500
.2500	+	.2500	+	.3750	+	.2500	+	.1875	+	.3750
.1250	+	.1250	+	.0625	+	.1875	-	.5000	+	.1250
.7500	+	.6875	+	.7500	+	.8125	+	.8125	+	.6875
.8750	+	.3750	+	.3750	+	.1875	+	.3125	+	.1250
.0625	+	.1250	+	.1250	+	.0625	+	.1250		.0000
.5625	+	.6250	+	.4375	+	1.0000	+	.6250	+	.3750
.1250	+	.2500	+	.4375	+	.2500	+	.2500	+	.3125
.3750	+	.3125	+	.3125	+	.4375	+	.3125	+	.3750
.0000		.0000	+	.0625	+	.1250	+	.1875	+	.1250
4.6250	+	4.1875	+	4.5000	+	4.4375	+	4.5000	+	4.3125
.7500	-	1.0000	-	.8125	-	.8750	-	.9375	-	.8750
1.0625	-	.1875	+	.0625	-	.2500	-	.3750	+	.9375
.6250	+	.3750	+	.2500	+	.5625	+	1.8125	+	.5000
.2500	+	.0625	-	.0625	-	.1250	-	.1250	-	.1250
.3750	+	.2500	+	.2500	+	.2500	+	.2500	+	.1875
.0000	-	.2500	-	.1250	-	.1250	-	.1250	-	.1250
.2500	-	.5625	+	.0625	-	.1875	+	.3125	-	.1875
.7500	+	.1875	+	.0625	-	.0625	-	.1875		.0000
.4375	+	.4375	+	.4375	+	.4375	+	.6875	+	.4375
--**	+	.6875	--	--	--	--	--	--	+	1.4375
1.2500	+	1.3125	+	1.3125	+	1.3125	+	1.5000	+	1.3125
.7500	-	.7500	-	.7500	-	.6875	-	.6875	-	.6250
.7500	+	.1875	+	.1875	+	.2500	+	.3750	+	.0625
9.0°	-	4.0°	-	8.0°	-	2.5°	-	4.0°	-	7.0°

Inches except for variations 25, 47, 48, and 49, which are given

less than the basic pattern.

greater than the basic pattern.

on that pattern.

TABLE IV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Blouse Back

Number	Name of Measurement	Variations*				
		B1	B2	B3	B4	B5
26.	Center back length	+ .4375	+ .5625	+ .1250	+ .4375	+ .1250
27.	Neck width	- .4375	- .5625	- .3750	- .4375	- .1250
28.	Neck depth	- .3125	- .3750	- .1875	- .3750	- .1250
29.	Across shoulder	+ .2500	+ .1250	+ .1250	+ .3125	+ .1250
30.	Slope of shoulder	+ .2500	+ .3125	- .1250	+ .3125	+ .1250
31.	Drop of shoulder	- .4375	- .4375	- .4375	- .3750	- .1250
32.	Shoulder seam	+ .5000	+ .4375	+ .3125	+ .3125	+ .1250
33.	Shoulder draft width	+ .3125	+ .3750	+ .1875	- .1250	+ .1250
34.	Across chest	+ .1250	+ .1250	+ .0625	+ .0625	+ .1250
35.	Bust width	- .5625	- .5000	- .6875	- .5000	- .1250
36.	Upper bust width	- .8750	- .6875	- .9375	- .7500	- .1250
37.	Full side length	+ .1875	+ .2500	+ .3750	+ .5625	+ .1250
38.	Underarm length	- .6875	- .8125	- .7500	- .6250	- .1250
39.	Waist width	- .6250	- .5000	- .6250	- .3125	- .1250
40.	Armhole curve	+ .2500	+ .5625	+ .3125	+ .6875	+ .1250
41.	Full length	- .1250	+ .1875	- .0625	+ .1875	- .1250
42.	Neck curve	- .5625	- .7500	- .4375	- .5625	- .1250
43.	Neck curve depth	- .1875	- .1250	.0000	- .1250	- .1250
44.	Armhole curve depth	.0000	.0000	+ .0625	.0000	- .1250
45.	Armhole depth	+ 1.0000	+ 1.1250	+ 1.1250	+ 1.1875	+ 1.1250
46.	Armhole width	- 1.1875	- 1.1875	- 1.1875	- 1.0625	- 1.1250
47.	Shoulder dart	+ .5°	+ 4.0°	- .5°	.0°	- .5°
48.	Neck dart	--**	--	--	--	--
49.	Waist dart	+ 1.5°	.0°	.0°	+ .5°	+ .5°

TABLE IV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
 THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND B

Blouse Back

Variations*					
	B2	B3	B4	B5	B6
5	+ .5625	+ .1250	+ .4375	+ .1875	+ .1875
5	- .5625	- .3750	- .4375	- .4375	- .3125
5	- .3750	- .1875	- .3750	- .1875	+ .8750
0	+ .1250	+ .1250	+ .3125	+ .3125	+ .0625
0	+ .3125	- .1250	+ .3125	.0000	- .1250
5	- .4375	- .4375	- .3750	- .4375	- .4375
0	+ .4375	+ .3125	+ .3125	+ .5000	+ .1875
5	+ .3750	+ .1875	- .1250	+ .3125	+ .1875
0	+ .1250	+ .0625	+ .0625	+ .1250	.0000
5	- .5000	- .6875	- .5000	- .5625	- .5000
5	- .6875	- .9375	- .7500	- .7500	- .8750
5	+ .2500	+ .3750	+ .5625	+ .3125	+ .4375
5	- .8125	- .7500	- .6250	- .8125	- .8125
0	- .5000	- .6250	- .3125	- .3750	- .6875
0	+ .5625	+ .3125	+ .6875	+ .5625	+ .6875
0	+ .1875	- .0625	+ .1875	.0000	+ .0625
5	- .7500	- .4375	- .5625	- .5000	- .3750
5	- .1250	.0000	- .1250	.0000	- .0625
0	.0000	+ .0625	.0000	- .1250	- .0625
0	+ 1.1250	+ 1.1250	+ 1.1875	+ 1.1875	+ 1.3125
5	- 1.1875	- 1.1875	- 1.0625	- 1.2500	- 1.0625
	+ 4.0°	- .5°	.0°	- .5°	- .5°
	--	--	--	--	--
	.0°	.0°	+ .5°	+ .5°	+ 1.0°

TABLE IV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Sleeve

Number	Name of Measurement	Sleeve			
		B1	B2	B3	B4
50.	Bicep	- .2500	- .3750	- .5000	- .3750
51.	Overarm length	--**	- .4375	--	+ .4375
52.	Sleeve cap height	+ .7500	+ .4375	+ .3750	+ .7500
53.	Overarm to elbow	--**	+ .6250	--	+ 1.1250
54.	Underarm length	--**	- 1.5000	--	- .3750
55.	Underarm length from bicep to elbow	--**	+ .2500	--	+ .4375
56.	Elbow girth	--**	- 1.7500	--	- 1.7500
57.	Wrist girth	--**	+ .5000	--	+ .4375
58.	Cap curve	+ .3750	- .3125	- .5000	+ .3750



TABLE IV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Sleeve

	B1	B2	B3	B4	B5	B6
	- .2500	- .3750	- .5000	- .3750	- .3750	- .2500
	---**	- .4375	--	+ .4375	--	--
ght	+ .7500	+ .4375	+ .3750	+ .7500	+ .3750	+ .7500
ow	---**	+ .6250	--	+ 1.1250	--	--
	---**	- 1.5000	--	- .3750	--	--
	---**	+ .2500	--	+ .4375	--	--
	---**	- 1.7500	--	- 1.7500	--	--
	---**	+ .5000	--	+ .4375	--	--
	+ .3750	- .3125	- .5000	+ .3750	- .5000	+ .2500

TABLE V

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	.0000	± .5625	- .0313
2.	Neck width	± .1875	± .3750	± .2813
3.	Neck depth	± .0625	- .5000	± .0208
4.	Across shoulder	± .6875	± .8125	± .7500
5.	Slope of shoulder	± .1250	± .8750	± .3750
6.	Drop of shoulder	.0000	± .1250	± .0833
7.	Shoulder seam	± .3750	± 1.0000	± .6042
8.	Across chest	± .1250	± .4375	± .2708
9.	Bust width	± .3125	± .4375	± .3542
10.	Upper bust width	.0000	± .1875	± .0833
11.	Full side length	± 4.1875	± 4.6250	± 4.4271
12.	Underarm length	- .7500	- 1.0000	- .8750
13.	Waist width	± .0625	± 1.0625	± .2083
14.	Armhole curve	± .3750	± 1.8125	± .6875
15.	Height of bust	± .0625	± .2500	- .0208
16.	Armhole curve depth	± .1875	± .3750	± .2604
17.	Neck curve depth	.0000	- .1250	- .1250
18.	Bust point width	± .0625	- .5625	- .1354
19.	Full length	.0000	± .7500	± .1250
20.	Neck curve	± .4375	± .6875	± .4792
21.	Dart point to bust point	± .6875	± 1.4375	± .3542
22.	Armhole depth	± 1.2500	± 1.5000	± 1.3333
23.	Armhole width	- .6250	- .7500	- .7083
24.	Shoulder to waist	± .0625	± .7500	± .3021
25.	Waist dart	- 4.0°	- 9.0°	- 5.8°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE V (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND B

Blouse Back

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	± .1250	± .5625	± .3229
27.	Neck width	- .3125	- .5625	- .4271
28.	Neck depth	- .1875	± .8750	- .1104
29.	Across shoulder	± .0625	± .3125	± .1979
30.	Slope of shoulder	.0000	± .3125	± .1042
31.	Drop of shoulder	- .3750	- .4375	- .4271
32.	Shoulder seam	± .5000	± .1875	± .3750
33.	Shoulder draft width	- .1250	± .3750	± .2083
34.	Across chest	.0000	± .1250	± .0833
35.	Bust width	- .5000	- .6875	- .5521
36.	Upper bust width	- .6875	- .9375	- .8125
37.	Full side length	± .2500	± .5625	± .3542
38.	Underarm length	- .6250	- .8125	- .7500
39.	Waist width	- .3125	- .6250	- .5208
40.	Armhole curve	± .2500	± .6875	± .5104
41.	Full length	.0000	± .1875	± .0417
42.	Neck curve	- .3750	- .7500	- .5313
43.	Neck curve depth	.0000	- .1875	- .0833
44.	Armhole curve depth	.0000	- .1250	- .0208
45.	Armhole depth	± 1.0000	± 1.3125	± 1.1563
46.	Armhole width	- 1.0625	- 1.1875	- 1.1563
47.	Shoulder dart	± .5°	± 4.0°	± .5°
48.	Neck dart	--**	--	--
49.	Waist dart	.0°	± 1.5°	± .6°

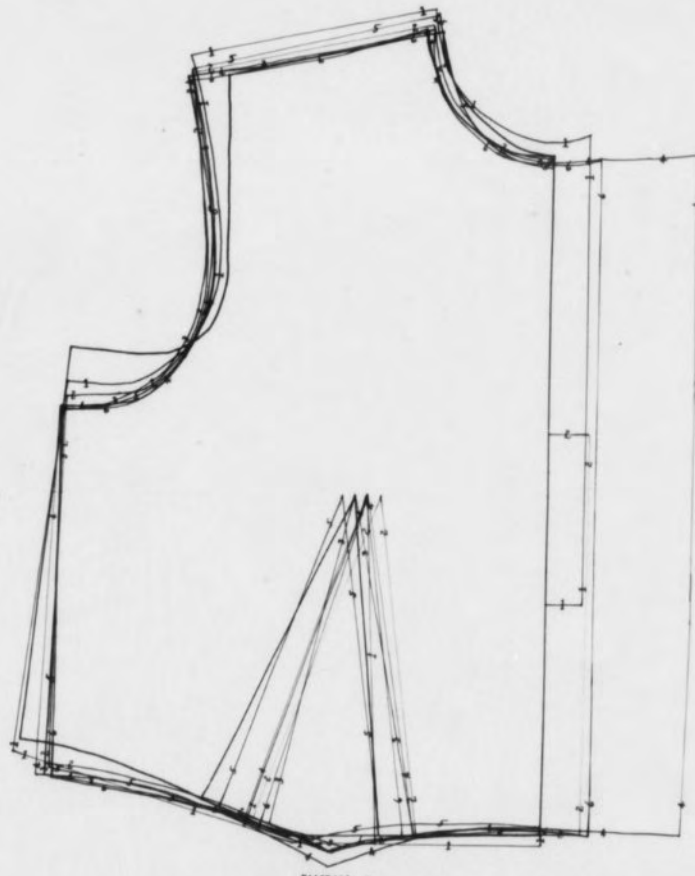
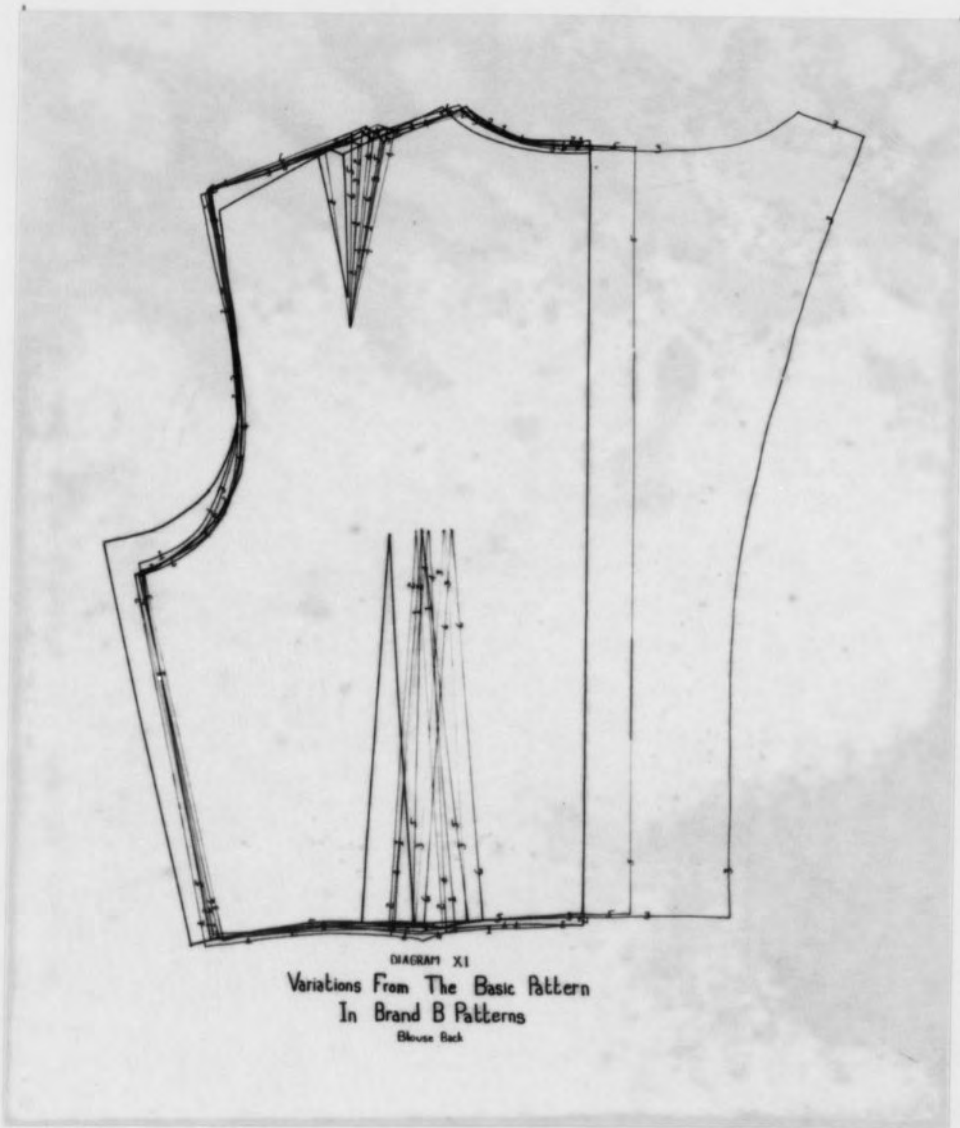


DIAGRAM X  
Variations From The Basic Pattern  
In Brand B Patterns  
House Front



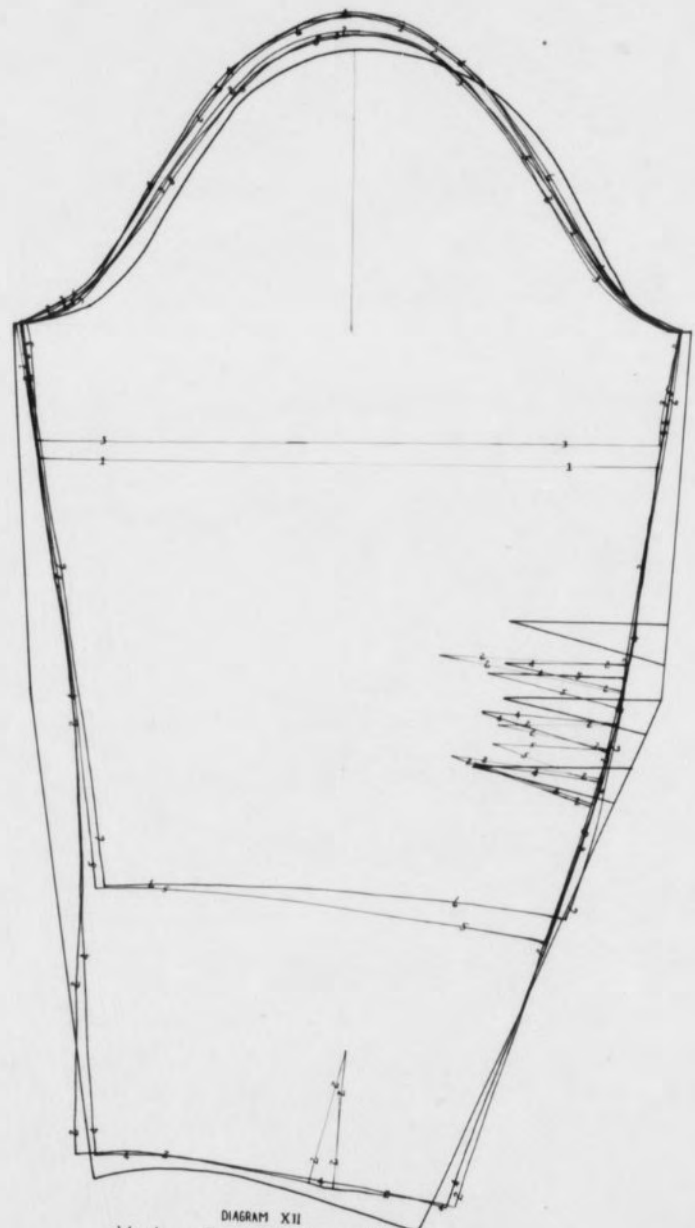


DIAGRAM XII  
Variations From The Basic Pattern  
In Brand B Patterns  
Sleeve

### 3. Brand C. (4 patterns)

The comparison of the variations from the Basic pattern of the Brand C patterns is shown in Table VI.<sup>4</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table VII.

On the blouse front, all patterns had a slightly greater neck width measurement. The neck depth was slightly greater by the same amount in two patterns while in the other two patterns it was slightly less by the same amount. Across the shoulder measured at least  $1/2$  inch greater in all patterns. The bust width varied slightly greater while the upper bust was less. The waist width did not vary in three patterns and was slightly greater in one pattern. The armhole depth was greater by one inch in all except C1, while the armhole width was from  $3/4$  to 1 inch less in all patterns. In the length measurements, the center front length was slightly greater; the full side length was from  $3\ 1/2$  to  $4\ 1/2$  inches greater; the underarm length was generally  $3/4$  inch less; the full length and shoulder to waist were greater in all but C1. The slope of shoulder was less than the Basic pattern in C1 and C2 but greater in C3 and C4. The drop of shoulder was slightly greater in all patterns. The arc of the waist dart varied from 3 to 9 degrees less in all the patterns.

The neck width and depth on the blouse back were less in all except the neck width of C3 and C4. Across the shoulder measured slightly greater in all the patterns. In C3 and C4, across the chest measured slightly greater while C1 and C2 measured slightly less. Unusually different were the lesser measurements of the bust, upper bust, and waist widths. While the armhole depth was greater in every pattern, the

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4. Measurements are given in Appendix Table III.

TABLE VI  
 VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND C

Blouse Front

Number	Name of Measurement	Variations*			
		C1	C2	C3	C4
1.	Center front length	+ .1250	+ .0625	+ .1250	+ .1250
2.	Neck width	+ .0625	+ .1875	+ .1250	+ .1250
3.	Neck depth	- .3125	+ .1250	+ .1250	- .3125
4.	Across shoulder	+ .5000	+ .6250	+ .5625	+ .5625
5.	Slope of shoulder	- .1250	- .0625	+ .1875	+ .5625
6.	Drop of shoulder	+ .2500	+ .6250	+ .3125	+ .4375
7.	Shoulder seam	+ .6250	+ .7500	+ .6250	+ .6250
8.	Across chest	+ .1250	+ .1250	- .1875	- .1875
9.	Bust width	.0000	+ .0625	+ .0625	+ .0625
10.	Upper bust width	- .2500	- .1250	- .2500	- .1875
11.	Full side length	+ 3.8750	+ 4.0000	+ 4.3750	+ 4.5000
12.	Underarm length	- .8750	- .8750	- .7500	- .7500
13.	Waist width	.0000	+ .0625	.0000	.0000
14.	Armhole curve	.0000	+ .1875	+ .4375	+ .6250
15.	Height of bust	+ .0625	.0000	+ .0625	+ .0625
16.	Armhole curve depth	+ .1250	+ .1250	+ .2500	+ .2500
17.	Neck curve depth	- .0625	- .0625	- .1875	- .0625
18.	Bust point width	+ .0625	- .1875	+ .2500	- .1250
19.	Full length	- .1250	+ .2500	+ .2500	+ .4375
20.	Neck curve	- .1250	+ .1875	- .3125	+ .2500
21.	Dart point to bust point	+ .9375	+ .9375	--**	+ 1.0000
22.	Armhole depth	+ .8750	+ 1.0000	+ 1.0000	+ 1.1250
23.	Armhole width	- 1.0000	- 1.0000	- .9375	- .8125
24.	Shoulder to waist	- .1250	+ .3125	+ .6875	+ .5000
25.	Waist dart	- 7.0°	- 8.0°	- 9.0°	- 3.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.



TABLE VI (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND C

Blouse Back

Number	Name of Measurement	Variations*			
		C1	C2	C3	C4
26.	Center back length	- .1875	+ .0625	.0000	.0000
27.	Neck width	- .1875	- .3750	+ .0625	+ .1250
28.	Neck depth	- .1875	- .2500	- .3125	- .1875
29.	Across shoulder	+ .5000	+ .4375	+ .2500	+ .6875
30.	Slope of shoulder	- .5000	- .2500	.0000	+ 1.5000
31.	Drop of shoulder	- .0625	- .2500	- .4375	- .3125
32.	Shoulder seam	+ .5625	+ .6875	+ .4375	+ .4375
33.	Shoulder draft width	+ .0625	+ .0625	+ .3125	+ .3125
34.	Across chest	- .0625	- .0625	+ .0625	+ .1875
35.	Bust width	- .6875	- .6250	- .6250	- .5000
36.	Upper bust width	- 1.0625	- .8750	- .8750	- .7500
37.	Full side length	- .3125	- .0625	+ .1250	+ .0625
38.	Underarm length	- .8125	- .8125	- .6875	- .6875
39.	Waist width	- .7500	- .6875	- .8125	- .7500
40.	Armhole curve	.0000	+ .1875	+ .3125	+ .3750
41.	Full length	- .3750	- .1875	- .3750	- .2500
42.	Neck curve	- .2500	- .5000	- .5625	.0000
43.	Neck curve depth	- .0625	- .0625	.0000	- .1250
44.	Armhole curve depth	- .1250	.0000	- .0625	- .3125
45.	Armhole depth	+ .6875	+ .8125	+ .9375	+ .8750
46.	Armhole width	- .1250	- .9375	- 1.1875	- 1.1250
47.	Shoulder dart	---	--	--	--
48.	Neck dart	---	--	--	--
49.	Waist dart	- 1.5°	+ .5°	+ .5°	.0°

TABLE VI (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND C

Sleeve

Number	Name of Measurement	Variations*			
		C1	C2	C3	C4
50.	Bicep	- .5000	- .2500	- .2500	- .2500
51.	Overarm length	---**	--	- .3750	--
52.	Sleeve cap height	+ .6250	+ .3750	+ .8750	+ .8750
53.	Overarm to elbow	---**	--	+ .7500	--
54.	Overarm length	---**	--	- 1.0625	--
55.	Underarm length from bicep to elbow	---**	--	+ .0625	--
56.	Elbow girth	---**	--	- 1.5000	--
57.	Wrist girth	---**	--	+ .8750	--
58.	Cap curve	- .4375	- .1875	+ .3750	+ .4375

59.	Underarm length	- .7500	- .5000	- .5000	- .5000
60.	Wrist girth	---**	--	- .3750	--
61.	Cap curve	---**	--	+ .8750	--
62.	Wrist girth	---**	--	+ .8750	--
63.	Cap curve	---**	--	+ .8750	--
64.	Wrist girth	---**	--	+ .8750	--
65.	Cap curve	---**	--	+ .8750	--
66.	Wrist girth	---**	--	+ .8750	--
67.	Cap curve	---**	--	+ .8750	--
68.	Wrist girth	---**	--	+ .8750	--
69.	Cap curve	---**	--	+ .8750	--
70.	Wrist girth	---**	--	+ .8750	--
71.	Cap curve	---**	--	+ .8750	--
72.	Wrist girth	---**	--	+ .8750	--
73.	Cap curve	---**	--	+ .8750	--
74.	Wrist girth	---**	--	+ .8750	--
75.	Cap curve	---**	--	+ .8750	--
76.	Wrist girth	---**	--	+ .8750	--
77.	Cap curve	---**	--	+ .8750	--
78.	Wrist girth	---**	--	+ .8750	--
79.	Cap curve	---**	--	+ .8750	--
80.	Wrist girth	---**	--	+ .8750	--
81.	Cap curve	---**	--	+ .8750	--
82.	Wrist girth	---**	--	+ .8750	--
83.	Cap curve	---**	--	+ .8750	--
84.	Wrist girth	---**	--	+ .8750	--
85.	Cap curve	---**	--	+ .8750	--
86.	Wrist girth	---**	--	+ .8750	--
87.	Cap curve	---**	--	+ .8750	--
88.	Wrist girth	---**	--	+ .8750	--
89.	Cap curve	---**	--	+ .8750	--
90.	Wrist girth	---**	--	+ .8750	--
91.	Cap curve	---**	--	+ .8750	--
92.	Wrist girth	---**	--	+ .8750	--
93.	Cap curve	---**	--	+ .8750	--
94.	Wrist girth	---**	--	+ .8750	--
95.	Cap curve	---**	--	+ .8750	--
96.	Wrist girth	---**	--	+ .8750	--
97.	Cap curve	---**	--	+ .8750	--
98.	Wrist girth	---**	--	+ .8750	--
99.	Cap curve	---**	--	+ .8750	--
100.	Wrist girth	---**	--	+ .8750	--

\*Variations are given in inches unless for variations 21, 27, 30, and 31, which are given in degrees.

--- indicates variation was less than the basic pattern.

---\*\* indicates variation was greater than the basic pattern.

---\*\*\* indicates variation was more than that pattern.

TABLE VII

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND C

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	± .0625	± .1250	± .1094
2.	Neck width	± .0625	± .1875	± .1250
3.	Neck depth	± .1250	- .3125	- .0938
4.	Across shoulder	± .5000	± .6250	± .5625
5.	Slope of shoulder	- .0625	± .5625	± .1406
6.	Drop of shoulder	± .2500	± .6250	± .4063
7.	Shoulder seam	± .6250	± .7500	± .6563
8.	Across chest	± .1250	- .1875	- .0313
9.	Bust width	.0000	± .0625	± .0469
10.	Upper bust width	- .1250	- .2500	- .2031
11.	Full side length	± 3.8750	± 4.5000	± 4.1875
12.	Underarm length	- .7500	- .8750	- .8125
13.	Waist width	.0000	± .0625	± .0156
14.	Armhole curve	.0000	± .6250	± .3125
15.	Height of bust	.0000	± .0625	± .0469
16.	Armhole curve depth	± .1250	± .2500	± .1875
17.	Neck curve depth	- .0625	- .1875	- .0938
18.	Bust point width	± .0625	± .2500	.0000
19.	Full length	- .1250	± .4375	± .2031
20.	Neck curve	- .1250	- .3125	.0000
21.	Dart point to bust point	± .9375	± 1.0000	± .7188
22.	Armhole depth	± .8750	± 1.1250	± 1.0000
23.	Armhole width	- .8125	- 1.0000	- .9375
24.	Shoulder to waist	- .1250	± .6875	± .3438
25.	Waist dart	- 3.5°	- 9.0°	- 6.9°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE VII (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND C

Blouse Back

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	.0000	- .1875	- .0313
27.	Neck width	± .0625	- .3750	- .0938
28.	Neck depth	- .1875	- .3125	- .2344
29.	Across shoulder	± .2500	± .6875	± .4688
30.	Slope of shoulder	.0000	± 1.5000	± .7500
31.	Drop of shoulder	- .0625	- .4375	- .2656
32.	Shoulder seam	± .4375	± .6875	± .5313
33.	Shoulder draft width	± .0625	± .3125	± .1875
34.	Across chest	± .0625	± .1875	± .0625
35.	Bust width	- .5000	- .6875	- .6094
36.	Upper bust width	- .7500	- 1.0625	- .8906
37.	Full side length	± .0625	- .3125	- .0469
38.	Underarm length	- .6875	- .8125	- .7500
39.	Waist width	- .6875	- .8125	- .7500
40.	Armhole curve	.0000	± .3750	± .2188
41.	Full length	- .1875	- .3750	- .2969
42.	Neck curve	.0000	- .5625	- .3281
43.	Neck curve depth	.0000	- .1250	- .0625
44.	Armhole curve depth	.0000	- .3125	- .1250
45.	Armhole depth	± .6875	± .9375	± .8281
46.	Armhole width	- .1250	- 1.1875	- .8445
47.	Shoulder dart	--**	--	--
48.	Neck dart	--**	--	--
49.	Waist dart	.0°	- 1.5°	- .1°

TABLE VII (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND C

Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	- .2500	- .5000	- .3125
51.	Overarm length	- .3750	- .3750	- .3750
52.	Sleeve cap height	± .3750	± .8750	± .6875
53.	Overarm to elbow	± .7500	± .7500	± .7500
54.	Overarm length	- 1.0625	- 1.0625	- 1.0625
55.	Underarm length from bicep to elbow	± .0625	± .0625	± .0625
56.	Elbow girth	- 1.5000	- 1.5000	- 1.5000
57.	Wrist girth	± .8750	± .8750	± .8750
58.	Cap curve	- .1875	± .4375	± .0469

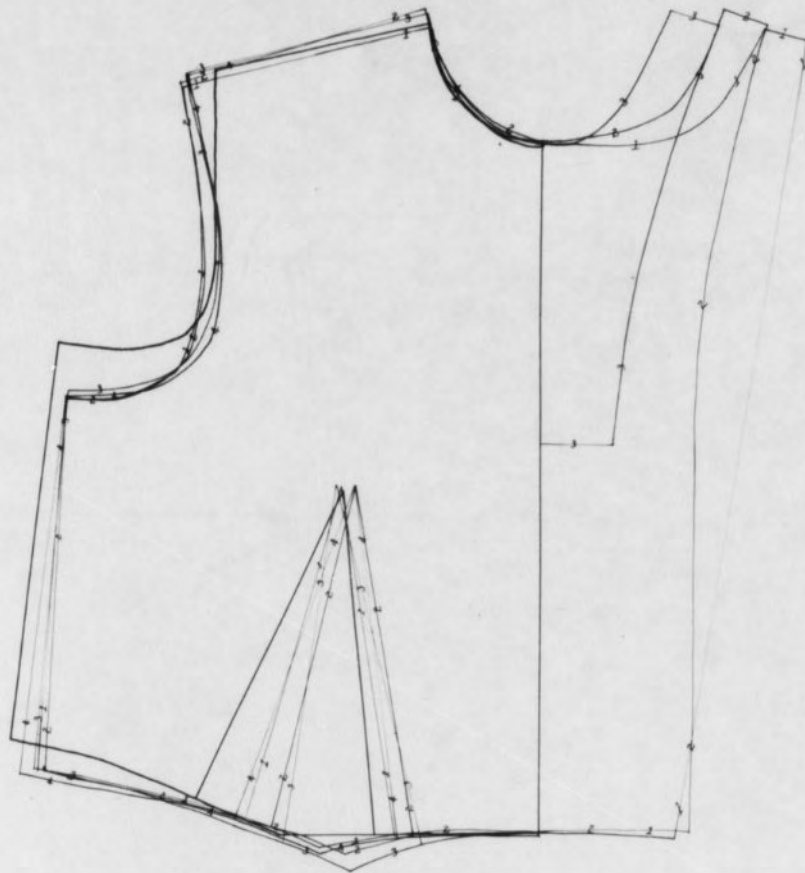
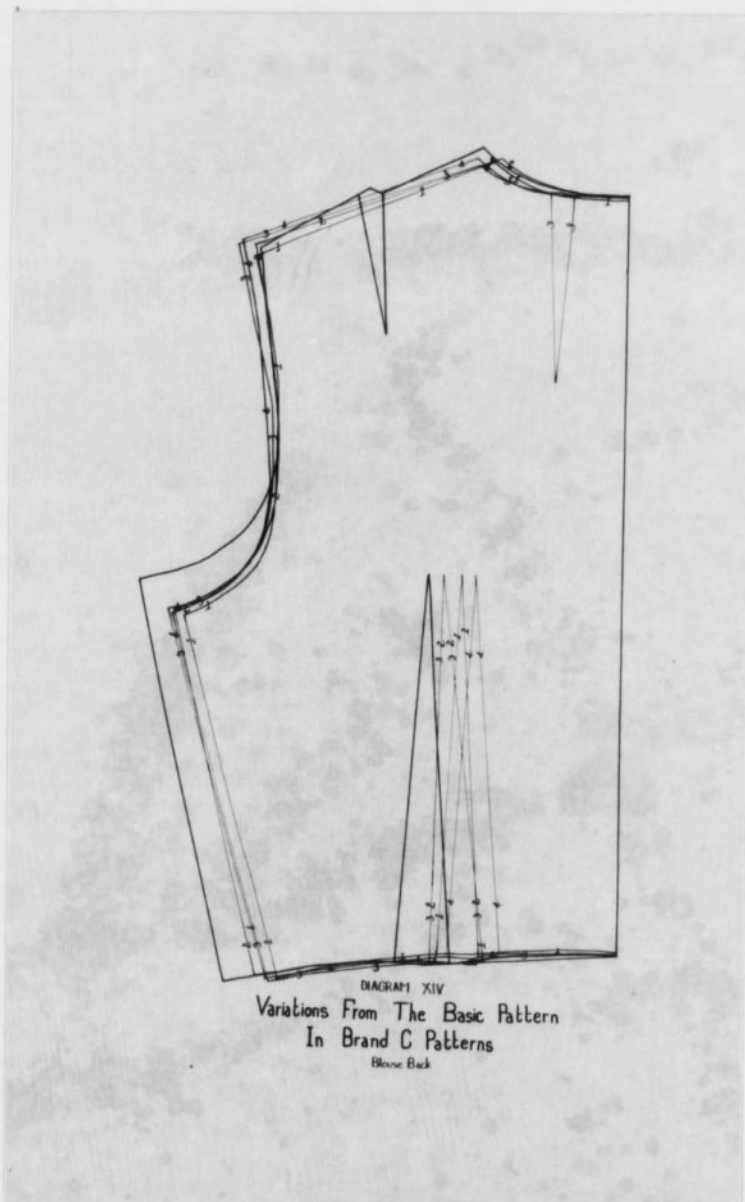
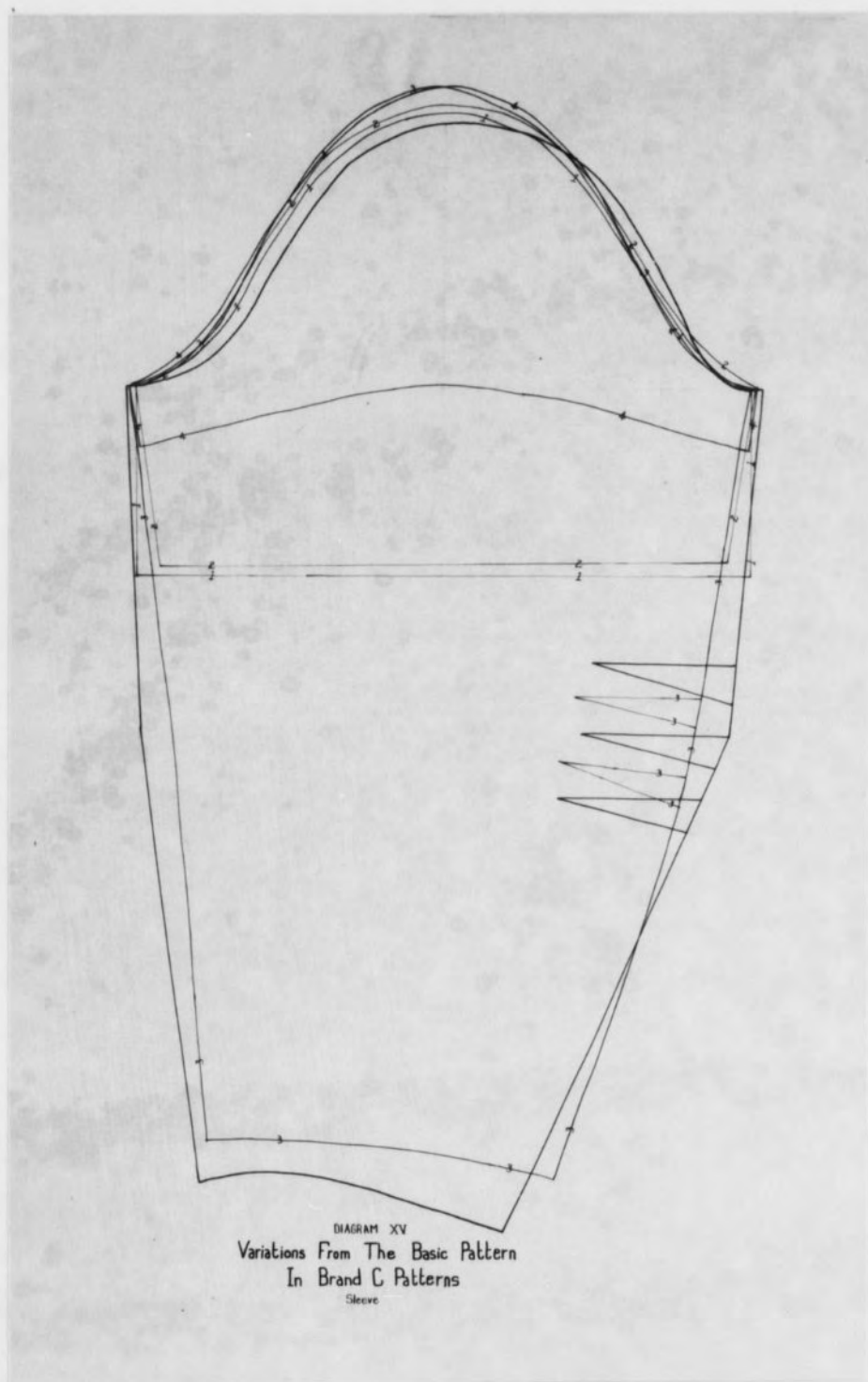


DIAGRAM XIII  
Variations From The Basic Pattern  
In Brand C Patterns  
Blouse front







#### 4. Brand D. (2 patterns)

The comparison of the variations from the Basic pattern of the Brand D patterns is shown in Table VIII.<sup>5</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table IX.

On the blouse front there was no variation in the neck width of D1 and D2 and neck depth of D2. The neck depth of D1 was  $1/4$  inch greater. Of interest was the lesser neck curve depth. The shoulder, chest, bust, and waist widths were greater. The upper bust was slightly less. The armhole curve and curve depth were slightly greater while the armhole depth was more than 1 inch greater in the two patterns. The armhole width was approximately 1 inch less. In the length measurements, the center front and full length measurements were at least  $1/4$  inch greater, the full side length was more than 4 inches greater, the shoulder to waist was  $1/2$  inch greater, and the underarm length was approximately 1 inch less. The slope of shoulder was less on D1 and 2 inches greater on D2. The drop of shoulder was greater on each pattern. The shoulder to waist was approximately  $1/2$  inch greater than the Basic pattern. The waist dart varied from  $6\ 1/2$  degrees less in D1 to  $2\ 1/2$  degrees less in D2.

On the blouse back the neck width, depth, curve, and curve depth were less than the Basic pattern. The shoulder width measurements were from  $1/2$  to 1 inch greater. The chest measurements were slightly greater. The bust measurement of D1 was slightly less, while that of D2 was slightly greater. The upper bust was less in the two patterns. The waist width was approximately  $1/4$  inch less. The armhole curve and curve

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5. Measurements are given in Appendix Table IV.

depth were slightly greater, while the armhole depth was  $1 \frac{3}{8}$  inches greater and the armhole width was from 1 inch to  $\frac{3}{4}$  inch less. There was greater variation in the center back length than in the full length. While the full side length and slope of shoulder were greater than the Basic pattern, the underarm length was from  $\frac{3}{4}$  to 1 inch less. The drop of shoulder was slightly greater in D1 but less in D2. The shoulder dart of D1 was slightly greater, while the waist darts of D1 and D2 had a greater variation of from 3 to  $4 \frac{1}{2}$  degrees.

In the sleeve the bicep, overarm, and cap curve measurements were slightly greater. The sleeve cap height and overarm to elbow varied from  $\frac{1}{2}$  to approximately 1 inch. The underarm length was less but the underarm length from the bicep to the elbow was greater. Unusual was the lesser elbow girth and greater wrist girth.

The following general likenesses, differences, and correlations were noted. The shoulder and chest measurements were greater than the Basic pattern, while the total bust measurement was approximately the same and the total waist measurement was slightly less. Length measurements were slightly greater except for the underarm, the drop of shoulder of the blouse back of D2, and the slope of shoulder on the blouse front of D1. The variation in the back and front neckline width, depth, and curve indicate a smaller neckline. There appears to be a correlation between the greater shoulder seam width and the lesser armhole width; the greater armhole depth, lesser underarm seam and the greater full side length; the greater armhole curve and the greater length of the cap curve; the greater armhole depth, sleeve cap height, and use of shoulder pads; and the greater full side length and use of shoulder pads.

The variations of the different pieces of pattern are shown in Diagrams XVI, XVII, and XVIII.

TABLE VIII

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND D

Blouse Front

Number	Name of Measurement	Variations*	
		D1	D2
1.	Center front length	‡ .2500	‡ .3750
2.	Neck width	.0000	.0000
3.	Neck depth	‡ .2500	.0000
4.	Across shoulder	‡ .8750	‡ .8125
5.	Slope of shoulder	- .7500	‡ 2.0000
6.	Drop of shoulder	‡ .5000	‡ .0625
7.	Shoulder seam	‡ 1.0625	‡ .8750
8.	Across chest	‡ .1875	‡ .2500
9.	Bust width	‡ .0625	‡ .3125
10.	Upper bust width	- .1875	- .0625
11.	Full side length	‡ 4.2500	‡ 4.1250
12.	Underarm length	- .9375	- 1.1875
13.	Waist width	‡ .0625	‡ .1875
14.	Armhole curve	‡ .1250	‡ .2500
15.	Height of bust	‡ .1250	‡ .1875
16.	Armhole curve depth	‡ .3750	‡ .5625
17.	Neck curve depth	- .3125	- .0625
18.	Bust point width	- .3125	- .3125
19.	Full length	‡ .4375	‡ .3125
20.	Neck curve	‡ .3750	‡ .1250
21.	Dart point to bust point	‡ .6875	‡ .6875
22.	Armhole depth	‡ 1.1875	‡ 1.1875
23.	Armhole width	- 1.1875	- .9375
24.	Shoulder to waist	‡ .5625	‡ .5000
25.	Waist dart	- 6.5°	- 2.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE VIII (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND D

Blouse Back

Number	Name of Measurement	Variations*	
		D1	D2
26.	Center back length	± .6875	± .6875
27.	Neck width	- .3125	- .3125
28.	Neck depth	- .3125	- .2500
29.	Across shoulder	± 1.3125	± .9375
30.	Slope of shoulder	± 2.8125	± .5000
31.	Drop of shoulder	± .0625	- .3125
32.	Shoulder seam	± .9375	± 1.0000
33.	Shoulder draft width	± .8750	± .5000
34.	Across chest	± .5625	± .3125
35.	Bust width	- .0625	± .0625
36.	Upper bust width	- .4375	- .3125
37.	Full side length	± .6250	± .4375
38.	Underarm length	- .7500	- 1.0625
39.	Waist width	- .2500	- .3125
40.	Armhole curve	± .6875	± .9375
41.	Full length	± .4375	± .4375
42.	Neck curve	- .4375	- .4375
43.	Neck curve depth	- .3125	- .0625
44.	Armhole curve depth	± .0625	± .1875
45.	Armhole depth	± 1.3750	± 1.3750
46.	Armhole width	- 1.1250	- .7500
47.	Shoulder dart	± .5°	---**
48.	Neck dart	---**	---
49.	Waist dart	± 3.0°	± 4.5°

TABLE VIII (Continued)

VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND D

Sleeve

Number	Name of Measurement	Variations*	
		D1	D2
50.	Bicep	± .0625	± .3750
51.	Overarm length	± .0625	± .1875
52.	Sleeve cap height	± .5000	± .6250
53.	Overarm to elbow	± .7500	± .9375
54.	Underarm length	- .4375	- .3750
55.	Underarm length from bicep to elbow	± .3750	± .3750
56.	Elbow girth	- .8125	- .7500
57.	Wrist girth	± .8125	± .8125
58.	Cap curve	± .2500	± .5625

TABLE IX

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND D

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	± .2500	± .3750	± .3125
2.	Neck width	.0000	.0000	.0000
3.	Neck depth	.0000	± .2500	± .1250
4.	Across shoulder	± .8125	± .8750	± .8438
5.	Slope of shoulder	- .7500	± 2.0000	± .6250
6.	Drop of shoulder	± .0625	± .5000	± .2813
7.	Shoulder seam	± .8750	± 1.0625	± .9688
8.	Across chest	± .1875	± .2500	± .2188
9.	Bust width	± .0625	± .3125	± .1875
10.	Upper bust width	- .0625	- .1875	- .1250
11.	Full side length	± 4.1250	± 4.2500	± 4.1875
12.	Underarm length	- .9375	- 1.1875	- 1.0625
13.	Waist width	± .0625	± .1875	± .1250
14.	Armhole curve	± .1250	± .2500	± .1875
15.	Height of bust	± .1250	± .1875	± .1563
16.	Armhole curve depth	± .3750	± .5625	± .4688
17.	Neck curve depth	- .0625	- .3125	- .1875
18.	Bust point width	- .3125	- .3125	- .3125
19.	Full length	± .3125	± .4375	± .3750
20.	Neck curve	± .1250	± .3750	± .2500
21.	Dart point to bust point	± .6875	± .6875	± .6875
22.	Armhole depth	± 1.1875	± 1.1875	± 1.1875
23.	Armhole width	- .9375	- 1.1875	- 1.0625
24.	Shoulder to waist	± .5000	± .5625	± .5313
25.	Waist dart	- 2.5°	- 6.5°	- 4.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE IX (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND D

Blouse Back

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	± .6875	± .6875	± .6875
27.	Neck width	- .3125	- .3125	- .3125
28.	Neck depth	- .2500	- .3125	- .2813
29.	Across shoulder	± .9375	± 1.3125	± 1.1250
30.	Slope of shoulder	± .5000	± 2.8125	± 1.6563
31.	Drop of shoulder	± .0625	- .3125	- .1250
32.	Shoulder seam	± .9375	± 1.0000	± .9688
33.	Shoulder draft width	± .5000	± .8750	± .6875
34.	Across chest	± .3125	± .5625	± .4375
35.	Bust width	± .0625	± .0625	.0000
36.	Upper bust width	- .3125	- .4375	- .3750
37.	Full side length	± .4375	± .6250	± .5313
38.	Underarm length	- .7500	- 1.0625	- .9063
39.	Waist width	- .2500	- .3125	- .2813
40.	Armhole curve	± .6875	± .9375	± .8125
41.	Full length	± .4375	± .4375	± .4375
42.	Neck curve	- .4375	- .4375	- .4375
43.	Neck curve depth	- .0625	- .3125	- .1875
44.	Armhole curve depth	± .0625	± .1875	± .1250
45.	Armhole depth	± 1.3750	± 1.3750	± 1.3750
46.	Armhole width	- .7500	- 1.1250	- .9375
47.	Shoulder dart	± .5°	--**	± .5°
48.	Neck dart	--**	--	--
49.	Waist dart	± 3.0°	± 4.5°	± 3.8°

TABLE IX (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND D

Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	± .0625	± .3750	± .2188
51.	Overarm length	± .0625	± .1875	± .1250
52.	Sleeve cap height	± .5000	± .6250	± .5625
53.	Overarm to elbow	± .7500	± .9375	± .8438
54.	Underarm length	- .3750	- .4375	- .4063
55.	Underarm length from bicep to elbow	± .3750	± .3750	± .3750
56.	Elbow girth	- .7500	- .8125	- .7813
57.	Wrist girth	± .8125	± .8125	± .8125
58.	Cap curve	± .2500	± .5625	± .4063



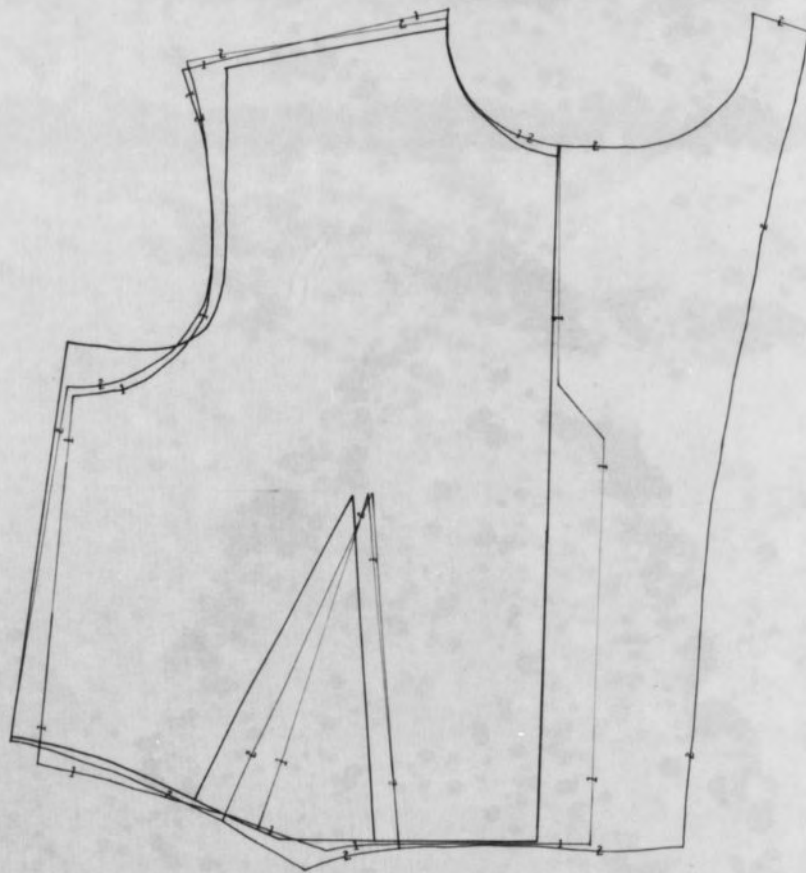
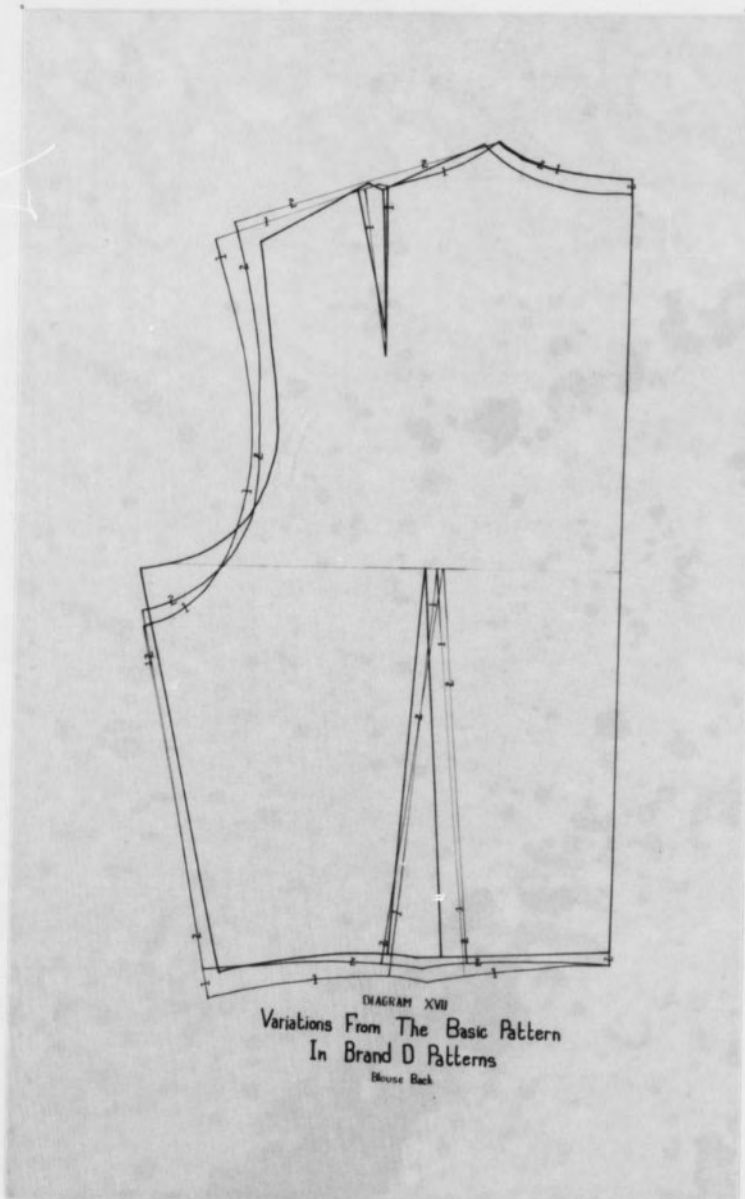
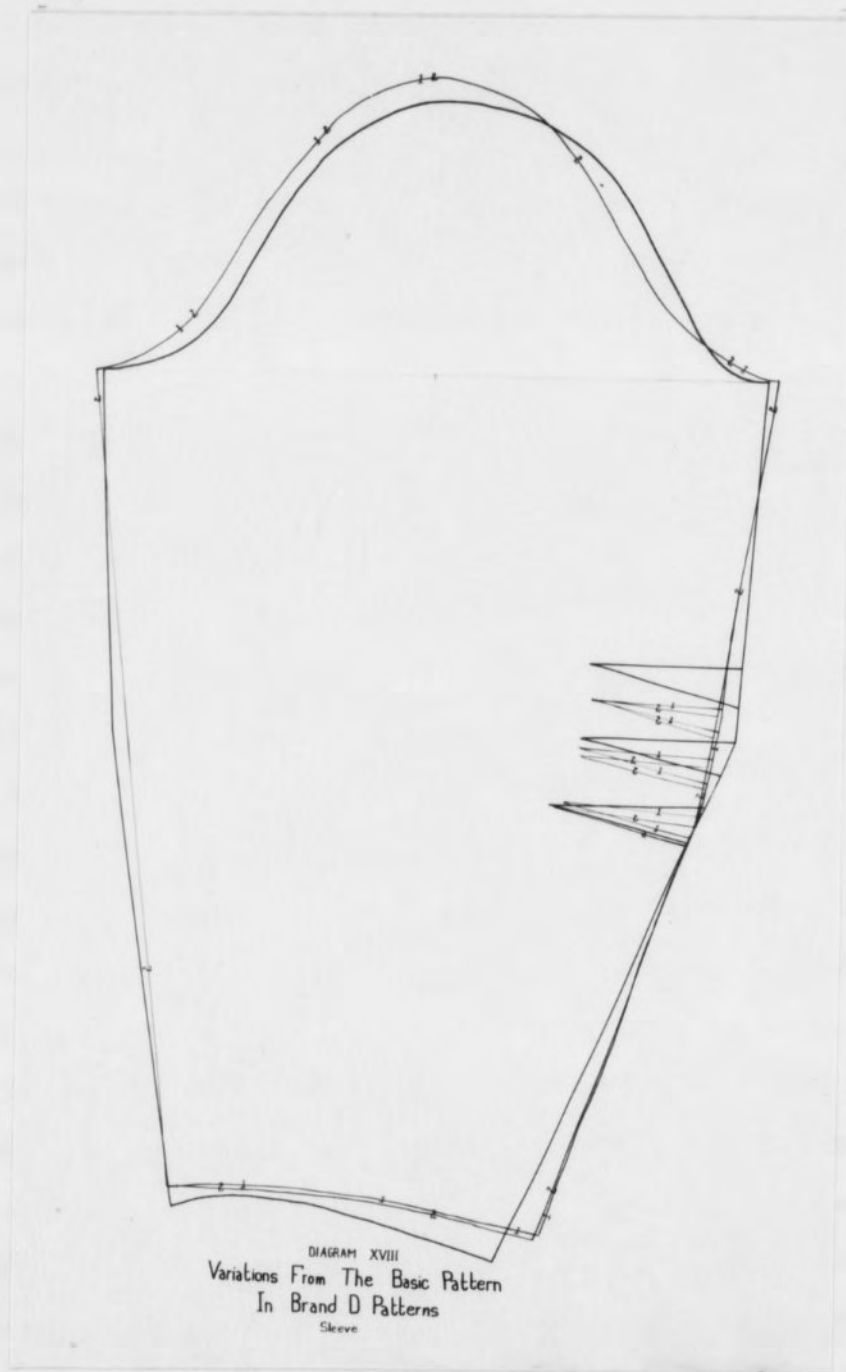


DIAGRAM XVI  
Variations From The Basic Pattern  
In Brand D Patterns  
Blouse Front





## 5. Brand E. (2 patterns)

The comparison of the variations from the Basic pattern of the Brand E patterns is shown in Table X.<sup>6</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table XI.

On the blouse front the neck width did not vary in E1 but was approximately 1/2 inch less in E2. The neck depth, curve, and curve depth were greater in both patterns. The shoulder width measurements were greater by approximately 1 inch. The chest, bust, and waist were slightly greater while the upper bust was slightly less. The armhole curve did not vary in E1. In E2, it was slightly greater. The armhole depth was 1 inch or more greater in the two patterns while the armhole width was more than 1 inch less in each pattern. In E1 the armhole curve depth was less but in E2 it was greater. The center front length was 1/2 inch less in E1 and 1/8 inch greater in E2, but the full length was approximately 1/2 inch greater in each pattern. The full side length was more than 4 1/2 inches greater and the underarm length was less. The shoulder to waist measurement was slightly greater and the slope of shoulder was more than 1 inch greater in both patterns, while the drop of shoulder was less. In E1 the waist dart was 1/2 a degree greater while in E2 it was 1/2 a degree less.

On the blouse back the neck width and curve were less, while the neck depth and curve depth were greater. Unusual differences were noted in the greater shoulder and chest widths and in the lesser upper bust, bust, and waist measurements. The armhole curve and depth were 1/2 to 1 inch greater. The armhole width was more than 1 inch less in each pattern. The armhole curve depth was slightly less in E1, but did not vary

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6. Measurements are given in Appendix Table V.

in E2. On the center back length E1 was slightly greater and E2 was slightly less. The full length was greater than the Basic pattern, E1 being greater than E2. The full side length was approximately  $3/4$  inch greater and the underarm length was less. The slope of shoulder was approximately 1 inch greater while the drop of shoulder was approximately  $1/2$  inch less. The waist dart was only slightly greater.

The bicep width and cap curve of the sleeve were less than the corresponding measurements of the Basic pattern with the cap height being approximately  $1/2$  inch greater in each pattern.

The following likenesses, differences, and correlations were noted. In the neck measurements, when the width was less the depth was greater. The total upper bust width was less than the Basic pattern. While the bust width was greater on the blouse front, it was less on the blouse back. This made the total bust measurement of E1 slightly greater, but E2 remained slightly less. The waist width of the blouse front was slightly greater and on the blouse back was slightly less. However, the total waist width of E1 was slightly less than the Basic pattern though E2 did not vary. The greater armhole curve with less cap curve was unusual. All length measurements were greater except the center back length of E2, the center front length of E1, and the underarm length of E1 and E2. These were slightly less. There appeared to be a correlation in the neck, shoulder seam, and armhole width measurements. There appeared to be another correlation between the greater armhole depth, greater sleeve cap height, and use of 1 inch shoulder pads. The lesser drop of shoulder, greater slope of shoulder, and full side length appeared to be related to the use of the unusually large shoulder pad.

The variations of the different pieces of pattern are shown in Diagrams XIX, XX, and XXI.

TABLE X

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND E

Blouse Front

Number	Name of Measurement	Variations*	
		1	2
1.	Center front length	- .5000	‡ .1250
2.	Neck width	.0000	- .4375
3.	Neck depth	‡ .9375	‡ .4375
4.	Across shoulder	‡ 1.5000	‡ .9375
5.	Slope of shoulder	‡ 1.3750	‡ 1.2500
6.	Drop of shoulder	- .5000	- .5000
7.	Shoulder seam	‡ 1.0000	‡ 1.0625
8.	Across chest	‡ .1250	‡ .3750
9.	Bust width	‡ .5000	‡ .1875
10.	Upper bust width	- .1875	- .3125
11.	Full side length	‡ 4.8750	‡ 4.8125
12.	Underarm length	- .1250	- .6875
13.	Waist width	‡ .1250	‡ .0625
14.	Armhole curve	.0000	‡ .3125
15.	Height of bust	- .2500	‡ .0625
16.	Armhole curve depth	- .1250	‡ .3125
17.	Neck curve depth	‡ .6250	‡ .0625
18.	Bust point width	.0000	- .0625
19.	Full length	‡ .4375	‡ .5625
20.	Neck curve	‡ .6250	‡ .1250
21.	Dart point to bust point	--**	--
22.	Armhole depth	‡ 1.0000	‡ 1.5625
23.	Armhole width	- 1.3125	- 1.0625
24.	Shoulder to waist	‡ .6250	‡ .6875
25.	Waist dart	‡ .5°	- .5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE X (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND E

Blouse Back

Number	Name of Measurement	Variations*	
		1	2
26.	Center back length	± .1875	- .0625
27.	Neck width	- .1875	- .2500
28.	Neck depth	± .1875	± .3125
29.	Across shoulder	± .7500	± .7500
30.	Slope of shoulder	± 1.1875	± .9375
31.	Drop of shoulder	- .6250	- .4375
32.	Shoulder seam	± .7500	± .8750
33.	Shoulder draft width	± .3750	± .4375
34.	Across chest	± .1250	± .0625
35.	Bust width	- .4375	- .4375
36.	Upper bust width	- .4375	- .8125
37.	Full side length	± .9375	± .7500
38.	Underarm length	- .0625	- .6875
39.	Waist width	- .1875	- .0625
40.	Armhole curve	± .5625	± .8750
41.	Full length	± .3750	± .1875
42.	Neck curve	- .1875	- .1250
43.	Neck curve depth	± .2500	± .1875
44.	Armhole curve depth	- .0625	.0000
45.	Armhole depth	± .9375	± 1.3750
46.	Armhole width	- 1.0625	- 1.2500
47.	Shoulder dart	---**	--
48.	Neck dart	---**	--
49.	Waist dart	± 2.0°	± .5°

TABLE X (Continued)

VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND E

Sleeve

Number	Name of Measurement	Variations*	
		1	2
50.	Bicep	- .4375	- .4375
51.	Overarm length	---**	---
52.	Sleeve cap height	1 .5625	1 .5625
53.	Overarm to elbow	---**	---
54.	Underarm length	---**	---
55.	Underarm length from bicep to elbow	---**	---
56.	Elbow girth	---	---
57.	Wrist girth	---	---
58.	Cap curve	- .2500	- .0625



TABLE XI

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND E

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	‡ .1250	- .5000	- .1875
2.	Neck width	.0000	- .4375	- .2188
3.	Neck depth	‡ .4375	‡ .9375	‡ .6875
4.	Across shoulder	‡ .9375	‡ 1.5000	‡ 1.2188
5.	Slope of shoulder	‡ 1.2500	- 1.6875	- .2188
6.	Drop of shoulder	- .5000	- .5000	- .5000
7.	Shoulder seam	‡ 1.0000	‡ 1.0625	‡ 1.0313
8.	Across chest	‡ .1250	‡ .3750	‡ .2500
9.	Bust width	‡ .1875	‡ .5000	‡ .3438
10.	Upper bust width	- .1875	- .3125	- .2500
11.	Full side length	‡ 4.8125	‡ 4.8750	‡ 4.8438
12.	Underarm length	- .1250	- .6875	- .4063
13.	Waist width	‡ .0625	‡ .1250	‡ .0938
14.	Armhole curve	.0000	‡ .3125	‡ .1563
15.	Height of bust	‡ .0625	- .2500	- .0938
16.	Armhole curve depth	- .1250	‡ .3125	‡ .0938
17.	Neck curve depth	‡ .0625	‡ .6250	‡ .3438
18.	Bust point width	.0000	- .0625	- .0313
19.	Full length	‡ .4375	‡ .5625	‡ .5000
20.	Neck curve	‡ .1250	‡ .6250	‡ .3750
21.	Dart point to bust point	--**	--	--
22.	Armhole depth	‡ 1.0000	‡ 1.5625	‡ 1.2813
23.	Armhole width	- 1.0625	‡ 1.3125	‡ .1250
24.	Shoulder to waist	‡ .6250	‡ .6875	‡ .6563
25.	Waist dart	± .5°	± .5°	.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XI (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND E

Blouse Back

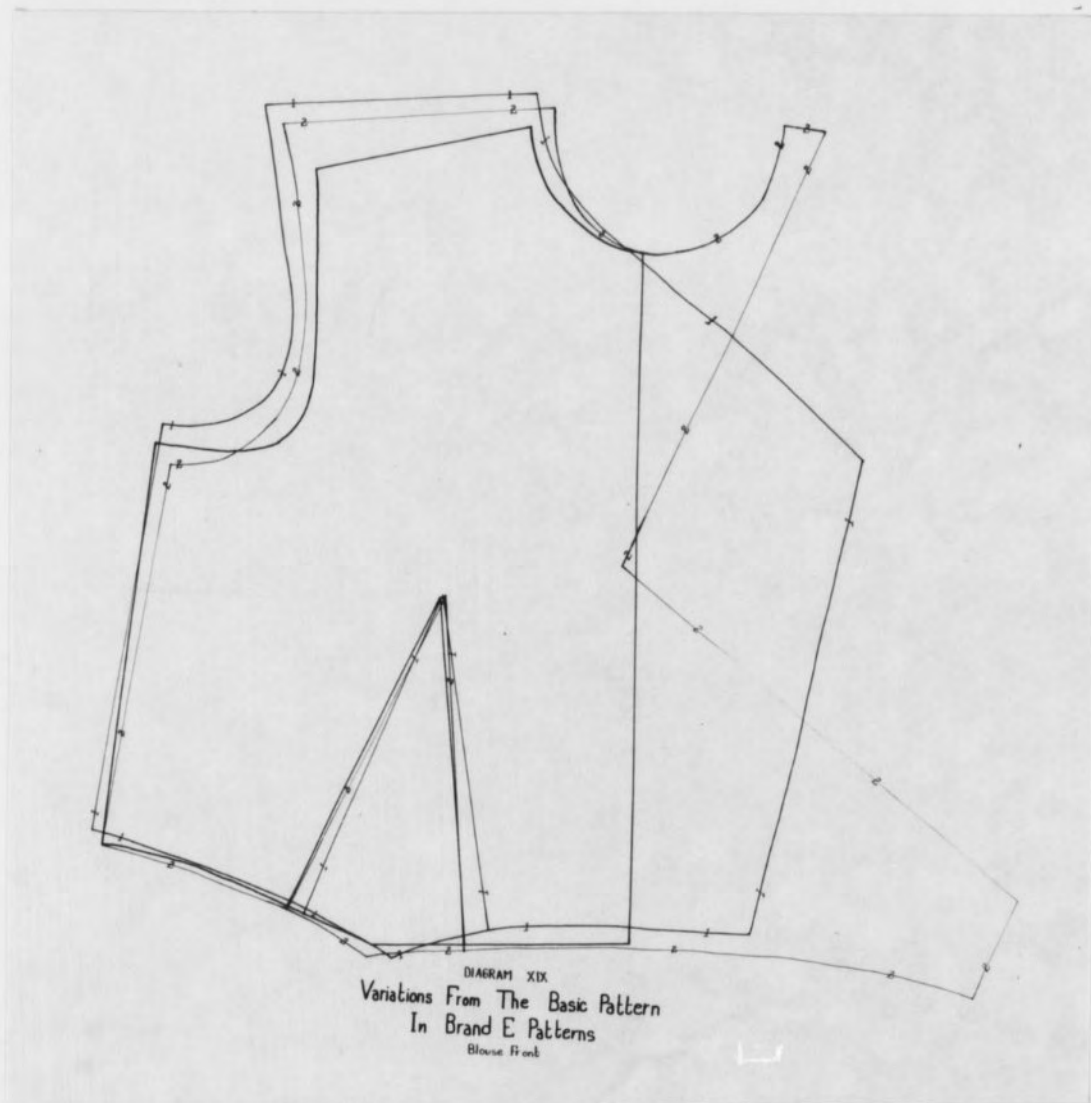
Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	- .0625	± .1875	± .0625
27.	Neck width	- .1875	- .2500	- .2188
28.	Neck depth	± .1875	± .3125	± .2500
29.	Across shoulder	± .7500	± .7500	± .7500
30.	Slope of shoulder	± .9375	± 1.1875	± 1.0625
31.	Drop of shoulder	- .4375	- .6250	- .5313
32.	Shoulder seam	± .7500	± .8750	± .8125
33.	Shoulder draft width	± .3750	± .4375	± .4063
34.	Across chest	± .0625	± .1250	± .0938
35.	Bust width	- .4375	- .4375	- .4375
36.	Upper bust width	- .4375	- .8125	- .6250
37.	Full side length	± .7500	± .9375	± .8438
38.	Underarm length	- .0625	- .6875	- .3750
39.	Waist width	- .0625	- .1875	- .1250
40.	Armhole curve	± .5625	± .8750	± .7188
41.	Full length	± .1875	± .3750	± .2813
42.	Neck curve	- .1250	- .1875	- .1563
43.	Neck curve depth	± .1875	± .2500	± .2188
44.	Armhole curve depth	.0000	- .0625	- .0313
45.	Armhole depth	± .9375	± 1.3750	± 1.1063
46.	Armhole width	- 1.0625	- 1.2500	- 1.1563
47.	Shoulder dart	--**	--	--
48.	Neck dart	--**	--	--
49.	Waist dart	± .5 <sup>o</sup>	± 2.0 <sup>o</sup>	± 1.3 <sup>o</sup>

TABLE XI (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND E

Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	- .4375	- .4375	- .4375
51.	Overarm length	---**	---	---
52.	Sleeve cap height	± .5625	± .5625	± .5625
53.	Overarm to elbow	---**	---	---
54.	Underarm length	---**	---	---
55.	Underarm length from bicep to elbow	---**	---	---
56.	Elbow girth	---**	---	---
57.	Wrist girth	---**	---	---
58.	Cap curve	- .0625	- .2500	- .1564



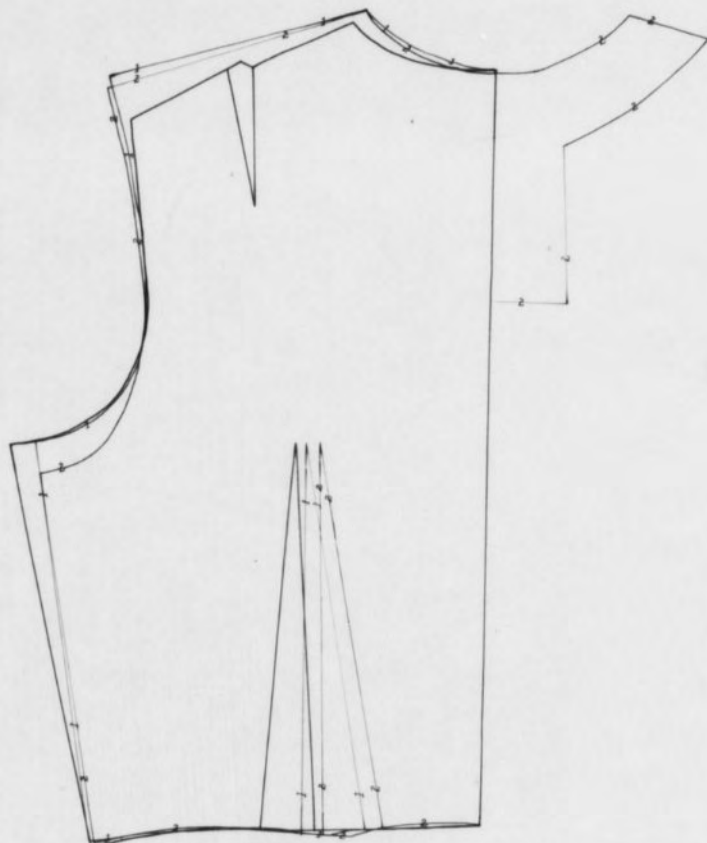
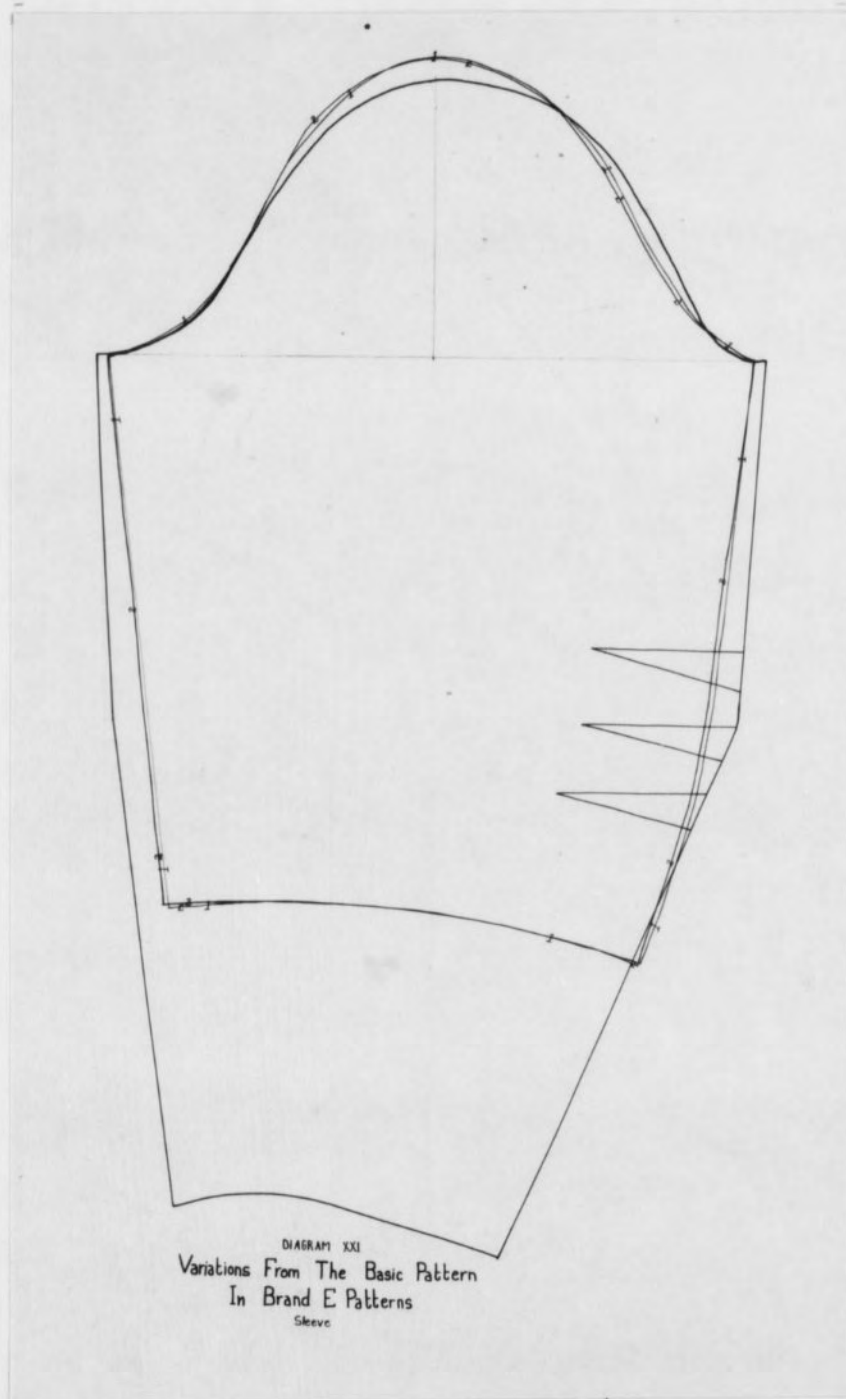


DIAGRAM XX  
Variations From The Basic Pattern  
In Brand E Patterns  
Blouse Back



## 6. Brand F. (2 patterns)

The comparison of the variations from the Basic pattern of the Brand F patterns is shown in Table XII.<sup>7</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table XIII.

The neck width, depth, and curve measurements were greater than the Basic pattern, but the neck curve depth was  $1/4$  inch less. Across shoulder and shoulder seam measurements were 1 inch greater. On the blouse back, "ease" was indicated on the shoulder seam. The chest, upper bust, bust, and waist measurements were slightly greater; the armhole depth was  $1\ 1/8$  inches greater; and the armhole width was almost 1 inch less. In F1 the center front length was  $1/4$  inch greater but in F2 it was  $1/4$  inch less. The full length, drop of shoulder, and shoulder to waist lengths were greater in each pattern by more than  $3/4$  inch. The slope of shoulder was slightly greater and the full side length was greater than the Basic pattern by 4 inches. The underarm length variation was less. The waist dart was  $6\ 1/2$  and  $8\ 1/2$  degrees less in F1 and F2 respectively.

On the blouse back the neck width and depth were from  $1/4$  to  $1/2$  inch less than the Basic pattern. The neck curve was slightly greater in F1 but  $3/4$  inch less in F2. The neck curve depth was less in each pattern. In the shoulder measurements, across the shoulder was approximately 1 inch greater and the shoulder seam was more than 1 inch greater. The chest measured slightly greater. The upper bust, bust and waist widths were less than the Basic pattern. While the armhole curve was less in F1, it was greater by the same amount in F2. The armhole depth

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7. Measurements are given in Appendix Table VI.

was approximately  $1/2$  inch greater and the width was  $1\ 1/4$  inches less. In length measurements, the center back was slightly greater in F2 and  $3/4$  inch greater in F1; the full length was slightly less in F2 and slightly greater in F1; the full side length was less in F2 and greater in F1; the slope of shoulder was greater in each pattern; and the underarm length and drop of shoulder were less in each pattern. The waist dart measured  $2\ 1/2$  degrees greater in F1 and  $4\ 1/2$  degrees greater in F2.

In the sleeve measurements, the bicep, overarm length, and underarm length were slightly less; the sleeve cap height and cap curve were approximately  $1/2$  inch greater. While the elbow girth was more than  $1\ 1/2$  inches less, the wrist girth was slightly greater.

These likenesses, differences, and correlations were noted. Though the neck width and depth were greater in the blouse front and less in the blouse back than the Basic pattern, the total neck curve was more than 1 inch greater in F1 and only slightly greater in F2. In the blouse front and back the shoulder seam, across shoulder, and chest measurements were greater. When the upper bust, bust, and waist widths were greater on the blouse front, they were less on the blouse back. The total bust width was slightly greater in F2 and slightly less in F1. The total upper bust was less than the Basic pattern in each pattern. The total waist width was  $1/4$  inch greater in F1 and F2. Unusual for the greater wrist girth were the lesser elbow girth and sleeve girth. Though the armhole width and neck width were less, the shoulder seam was more than 1 inch greater on the blouse back and front. There appeared to be a correlation between the greater shoulder seam and lesser armhole width; the greater armhole depth and lesser underarm length; the greater total



armhole curve and sleeve cap curve; the greater sleeve cap height and armhole depth; and the greater slope of shoulder, greater full side length, greater armhole depth, lesser drop of shoulder, and use of shoulder pads.

The variations of the different pieces of pattern are shown in Diagrams XXII, XXIII, and XXIV.

TABLE XII

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND F

Blouse Front

Number	Name of Measurement	Variations*	
		F1	F2
1.	Center front length	± .1250	- .1250
2.	Neck width	± .1875	± .1250
3.	Neck depth	± .8125	± .7500
4.	Across shoulder	± 1.0625	± 1.0000
5.	Slope of shoulder	± .5000	± .3125
6.	Drop of shoulder	± .7500	± .7500
7.	Shoulder seam	± 1.1250	± 1.0625
8.	Across chest	± .4375	± .3750
9.	Bust width	± .4375	± .4375
10.	Upper bust width	± .1250	± .3125
11.	Full side length	± 4.1875	± 4.4375
12.	Underarm length	- .1875	- .6875
13.	Waist width	± .3750	± .2500
14.	Armhole curve	± .3125	± .3750
15.	Height of bust	± .0625	- .0625
16.	Armhole curve depth	± .4375	± .3125
17.	Neck curve depth	- .2500	- .2500
18.	Bust point width	- .1875	± .2500
19.	Full length	± .9375	± .6250
20.	Neck curve	± .9375	± .8750
21.	Dart point to bust point	- .0625	--**
22.	Armhole depth	± 1.1875	± 1.1875
23.	Armhole width	- .9375	- .8125
24.	Shoulder to waist	± 1.0625	± .8750
25.	Waist dart	- 6.5°	- 8.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XII (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND F

Blouse Back

Number	Name of Measurement	Variations*	
		F1	F2
26.	Center back length	± .7500	± .1875
27.	Neck width	- .4375	- .5000
28.	Neck depth	- .4375	- .3750
29.	Across shoulder	± .8125	± .9375
30.	Slope of shoulder	± .4375	± .2500
31.	Drop of shoulder	- .4375	- .4375
32.	Shoulder seam	± 1.0625	± 1.1875
33.	Shoulder draft width	± .4375	± .5000
34.	Across chest	± .1250	± .2500
35.	Bust width	- .5000	- .3750
36.	Upper bust width	- .7500	- .8125
37.	Full side length	± .4375	- .1250
38.	Underarm length	- .1875	- .6875
39.	Waist width	- .1250	- .1250
40.	Armhole curve	- .2500	± .2500
41.	Full length	± .3125	- .1250
42.	Neck curve	± .3750	- .7500
43.	Neck curve depth	- .1250	- .0625
44.	Armhole curve depth	± .1250	± .1250
45.	Armhole depth	± .4375	± .5000
46.	Armhole width	- 1.2500	- 1.2500
47.	Shoulder dart	---**	---
48.	Neck dart	---**	---
49.	Waist dart	± 2.5°	± 4.5°

TABLE XII (Continued)

VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND F

Sleeve

Number	Name of Measurement	Variations*	
		F1	F2
50.	Bicep	- .1250	- .1250
51.	Overarm length	- .3125	- .5625
52.	Sleeve cap height	± .5625	± .5000
53.	Overarm to elbow	± .6875	± .5000
54.	Underarm length	- .8750	- .8750
55.	Underarm length from bicep to elbow	± .1875	± .1250
56.	Elbow girth	- 1.6875	- 1.7500
57.	Wrist girth	± .1250	± .5625
58.	Cap curve	± .6250	± .5625

TABLE XIII

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND F

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	± .1250	± .1250	.0000
2.	Neck width	± .1250	± .1875	± .1563
3.	Neck depth	± .7500	± .8125	± .7813
4.	Across shoulder	± 1.0000	± 1.0625	± 1.0313
5.	Slope of shoulder	± .3125	± .5000	± .2063
6.	Drop of shoulder	± .7500	± .7500	± .7500
7.	Shoulder seam	± 1.0625	± 1.1250	± 1.0938
8.	Across chest	± .3750	± .4375	± .4063
9.	Bust width	± .4375	± .4375	± .4375
10.	Upper bust width	± .1250	± .3125	± .2188
11.	Full side length	± 4.1875	± 4.4375	± 4.3125
12.	Underarm length	- .1875	- .6875	- .4375
13.	Waist width	± .2500	± .3750	± .3125
14.	Armhole curve	± .3125	± .3750	± .3438
15.	Height of bust	± .0625	± .0625	.0000
16.	Armhole curve depth	± .3125	± .4375	± .3750
17.	Neck curve depth	- .2500	- .2500	- .2500
18.	Bust point width	- .1875	± .2500	± .0313
19.	Full length	± .6250	± .9375	± .7813
20.	Neck curve	± .8750	± .9375	± .9063
21.	Dart point to bust point	- .0625	- .0625	- .0625
22.	Armhole depth	± 1.1875	± 1.1875	± 1.1875
23.	Armhole width	- .8125	- .9375	- .8750
24.	Shoulder to waist	± .8750	± 1.0625	± .9688
25.	Waist dart	- 6.5°	- 8.5°	- 7.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XIII (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND F

Blouse Back

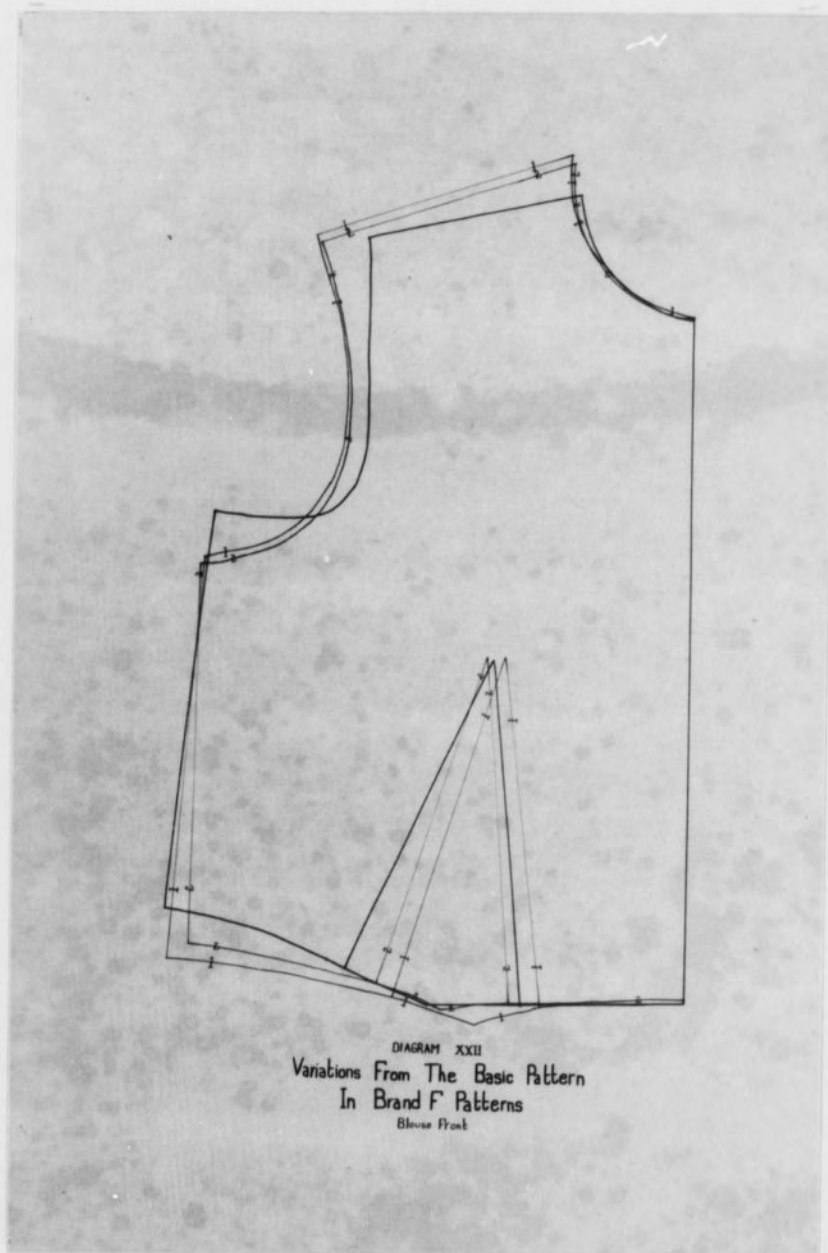
Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	± .1875	± .7500	± .4688
27.	Neck width	- .4375	- .5000	- .4688
28.	Neck depth	- .3750	- .4375	- .4063
29.	Across shoulder	± .8125	± .9375	± .8750
30.	Slope of shoulder	± .2500	± .4375	± .3438
31.	Drop of shoulder	- .4375	- .4375	- .4375
32.	Shoulder seam	± 1.0625	± 1.1875	± 1.1250
33.	Shoulder draft width	± .4375	± .5000	± .4688
34.	Across chest	± .1250	± .2500	± .1875
35.	Bust width	- .3750	- .5000	- .4375
36.	Upper bust width	- .7500	- .8125	- .7813
37.	Full side length	- .1250	± .4375	± .2563
38.	Underarm length	- .1875	- .6875	- .4375
39.	Waist width	- .1250	- .1250	- .1250
40.	Armhole curve	± .2500	± .2500	.0000
41.	Full length	- .1250	± .3125	± .0938
42.	Neck curve	± .3750	- .7500	- .1875
43.	Neck curve depth	- .0625	- .1250	- .0938
44.	Armhole curve depth	± .1250	± .1250	± .1250
45.	Armhole depth	± .4375	± .5000	± .4688
46.	Armhole width	- 1.2500	- 1.2500	- 1.2500
47.	Shoulder dart	--**	--	--
48.	Neck dart	--	--	--
49.	Waist dart	± 2.5°	± 4.5°	± 3.5°

TABLE XIII (Continued)

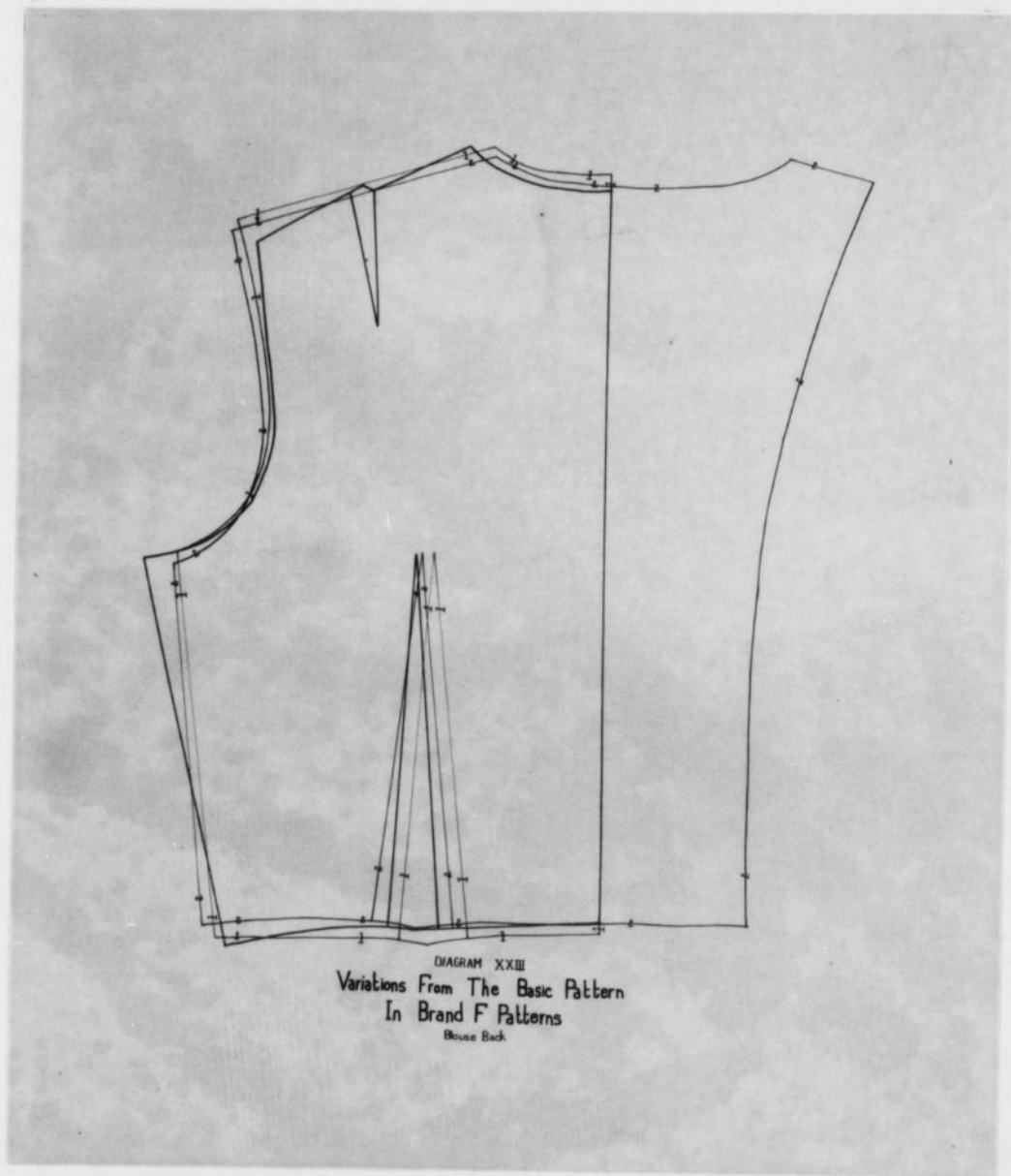
MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND F

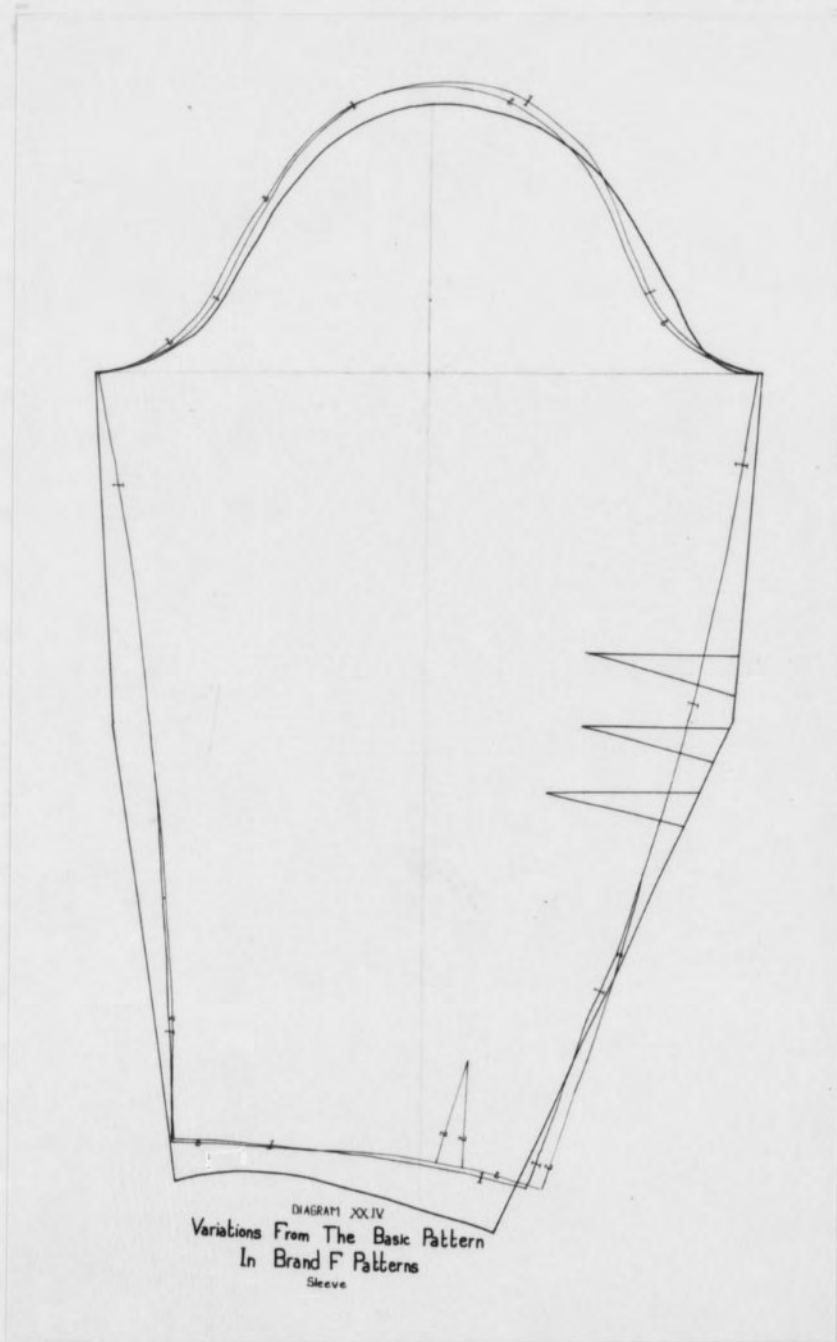
Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	- .1250	- .1250	- .1250
51.	Overarm length	- .3125	- .5625	- .4375
52.	Sleeve cap height	± .5000	± .5625	± .5313
53.	Overarm to elbow	± .5000	± .6875	± .5938
54.	Underarm length	- .8750	- .8750	- .8750
55.	Underarm length from bicep to elbow	± .1250	± .1875	± .1563
56.	Elbow girth	- 1.6875	- 1.7500	- 1.7188
57.	Wrist girth	± .1250	± .5625	± .3438
58.	Cap curve	± .5625	± .6250	± .5938









### 7. Brand G. (2 patterns)

The comparison of the variations from the Basic pattern of the Brand G patterns is shown in Table XIV.<sup>8</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table XV.

On the blouse front the neck width, depth and curve were greater but the curve depth was less. The variation of the curve depth in G2 was greater than in G1. Across the shoulder was slightly greater while the shoulder seam was more than 1/2 inch greater. Across the chest, bust, upper bust, and waist measurements in G1 were approximately 1/2 inch less, but in G2 they were greater. The armhole depth of G1 was approximately 1 inch greater and G2 was approximately 1/2 inch greater, while the armhole width of G1 was approximately 1 inch less and G2 was 1/2 inch less. The armhole curve was greater in G1 but less in G2. The armhole curve depth was less in each pattern, the greater variation being in G2. The center front length and full length were less than the Basic pattern, G1 having the greater variation. The slope of the shoulder measurement was less in G1 and G2. Unusual variations were the full side length which was more than 3 1/4 inches greater and the underarm measurement which was more than 1 1/4 inches less than the Basic pattern. The drop of shoulder was greater in the two patterns. The shoulder to waist variation was slightly greater. In G1 the waist dart was 3 degrees less, while in G2 it was 1 1/2 degrees greater.

The neck width and curve were less on the blouse back but the neck depth was greater. In G1 the neck curve depth was greater, but in G2 it was less by approximately the same amount. Across the shoulder,

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8. Measurements are given in Appendix Table VII.

the shoulder seam, and bust were greater. Across the chest and upper bust measurements on G1 were slightly less and on G2 were approximately 1/2 inch greater. In the armhole measurements the depth was 1 inch greater; the width of G1 was more than 1/2 inch less while G2 was only slightly less; the armhole curve was more than 1 inch greater; and the curve depth was slightly greater. The center back length and full length were less in G1 and greater in G2. The full side length and slope of the shoulder were greater but the underarm length varied approximately 1 inch less than the Basic pattern. The drop of shoulder was less than the Basic pattern. G1 had a 1 inch shoulder dart. G1 had a 3 1/2 degrees greater variation in the waist dart and G2 had a 15 1/2 degrees variation.

On the sleeve the bicep was more than 1/2 inch greater. Though the sleeve cap height was greater, the overarm length was less. The underarm length, underarm from bicep to elbow, the elbow girth, and sleeve girth were greater. The cap curve in each pattern was greater by 1 inch.

The following likenesses, differences, and correlations were noted. The neck width was less in the back but greater in the front. The neck depth and curve were slightly greater. This seemed to indicate a slightly greater neck opening. While the shoulder seam and across shoulder were greater, the armhole width was less. The total chest, upper bust, bust, and waist widths of G1 were less than the Basic pattern. In G2 they were greater. Though the armhole width was less and the armhole depth was greater in each pattern, the total armhole curve was greater. The center front and back lengths were less in each pattern. The full length was less on the blouse front in G1 and G2, the

blouse back being less in G1 and 1/2 inch greater in G2. The full side length was more than 3 inches greater on the blouse front while on the blouse back it was approximately 1/2 inch greater. The underarm length was approximately 1 inch less on each pattern. All sleeve measurements were greater except the measurement of the overarm length. There appeared to be a correlation between the greater armhole depth and lesser underarm seam; the greater shoulder seam, neck width, and lesser armhole width; the greater full side length, greater armhole depth, greater sleeve cap height, and use of shoulder pads; and the greater armhole curve and cap curve. The lesser slope of shoulder width and greater drop of shoulder on the blouse front with the greater slope of shoulder and lesser drop of shoulder on the blouse back seemed to indicate that the shoulder seam direction tended to move toward the front as it reached the armhole.

The variations of the different pieces of pattern are shown in Diagrams XXV, XXVI, and XXVII.

TABLE XIV

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND G

Blouse Front

Number	Name of Measurement	Variations*	
		G1	G2
1.	Center front length	- .5625	- .2500
2.	Neck width	‡ .0625	‡ .1875
3.	Neck depth	‡ .4375	‡ .1250
4.	Across shoulder	‡ .0625	‡ .5625
5.	Slope of shoulder	- .3750	- .1250
6.	Drop of shoulder	‡ .1875	‡ .4375
7.	Shoulder seam	‡ .0625	‡ .6250
8.	Across chest	- .6875	‡ .3750
9.	Bust width	- .4375	‡ .7500
10.	Upper bust width	- .8750	‡ .1875
11.	Full side length	‡ 3.8125	‡ 3.3125
12.	Underarm length	- 1.2500	- 1.3125
13.	Waist width	- .6875	‡ .3125
14.	Armhole curve	‡ .4375	- .0625
15.	Height of bust	- .2500	- .1250
16.	Armhole curve depth	‡ .1250	‡ .2500
17.	Neck curve depth	- .1250	- .5000
18.	Bust point width	‡ .1250	‡ .1875
19.	Full length	- .1875	- .0625
20.	Neck curve	‡ .3750	‡ .3125
21.	Dart point to bust point	---**	---
22.	Armhole depth	‡ 1.0625	‡ .4375
23.	Armhole width	- .9375	- .5000
24.	Shoulder to waist	‡ .1250	‡ .1875
25.	Waist dart	- 3.0°	‡ 1.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XIV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND G

Blouse Back

Number	Name of Measurement	Variations*	
		G1	G2
26.	Center back length	- .3750	± .1875
27.	Neck width	- .1250	- .3125
28.	Neck depth	± .3125	± .2500
29.	Across shoulder	± .4375	± .4375
30.	Slope of shoulder	± .7500	± 1.4375
31.	Drop of shoulder	- .8750	- .8750
32.	Shoulder seam	± .1875	± .5000
33.	Shoulder draft width	± .6250	± .1250
34.	Across chest	- .1250	± .6250
35.	Bust width	± .1875	± .9375
36.	Upper bust width	- .1250	± .4375
37.	Full side length	± .3750	± .4375
38.	Underarm length	- .9375	- 1.3125
39.	Waist width	± .3750	.0000
40.	Armhole curve	± 1.0625	± 1.1250
41.	Full length	- .0625	± .5625
42.	Neck curve	- .0625	- .0625
43.	Neck curve depth	± .1875	- .1250
44.	Armhole curve depth	± .1250	± .3750
45.	Armhole depth	± 1.0000	± 1.3750
46.	Armhole width	- .8125	± .3125
47.	Shoulder dart	± 1.0°	--**
48.	Neck dart	--**	--
49.	Waist dart	± 3.5°	± 15.5°

TABLE XIV (Continued)

VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 BRAND G

Sleeve

Number	Name of Measurement	Variations*	
		G1	G2
50.	Bicep	‡ .6250	‡ .7500
51.	Overarm length	- .4375	---**
52.	Sleeve cap height	‡ .6250	‡ .1875
53.	Overarm to elbow	‡ 1.3125	---**
54.	Underarm length	‡ .3750	---**
55.	Underarm length from bicep to elbow	‡ .7500	---**
56.	Elbow girth	‡ .2500	---**
57.	Wrist girth	‡ 2.6875	---**
58.	Cap curve	‡ 1.0000	‡ 1.3125



TABLE XV

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND G

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	- .2500	- .5625	- .4063
2.	Neck width	‡ .0625	‡ .1875	‡ .1250
3.	Neck depth	‡ .1250	‡ .4375	‡ .2813
4.	Across shoulder	‡ .0625	‡ .5625	‡ .3125
5.	Slope of shoulder	- .1250	- .3750	- .2500
6.	Drop of shoulder	‡ .1875	‡ .4375	‡ .3125
7.	Shoulder seam	‡ .0625	‡ .6250	‡ .3438
8.	Across chest	‡ .3750	- .6875	- .1563
9.	Bust width	- .4375	‡ .7500	‡ .1563
10.	Upper bust width	‡ .1875	- .8750	- .3438
11.	Full side length	‡ 3.3125	‡ 3.8125	‡ 3.5625
12.	Underarm length	- 1.2500	- 1.3125	- 1.2813
13.	Waist width	‡ .3125	- .6875	- .1875
14.	Armhole curve	‡ .0625	‡ .4375	‡ .2500
15.	Height of bust	- .1250	- .2500	- .1875
16.	Armhole curve depth	‡ .1250	‡ .2500	‡ .1875
17.	Neck curve depth	- .1250	- .5000	- .3125
18.	Bust point width	‡ .1250	‡ .1875	‡ .1563
19.	Full length	- .0625	- .1875	- .1250
20.	Neck curve	‡ .3125	‡ .3750	‡ .3438
21.	Dart point to bust point	--**	--	--
22.	Armhole depth	‡ .4375	‡ 1.0625	‡ .7500
23.	Armhole width	- .5000	- .9375	- .7188
24.	Shoulder to waist	‡ .1250	‡ .1875	‡ .1563
25.	Waist dart	‡ 1.5°	- 3.0°	- .8°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

‡Indicates variation was greater than the basic pattern.

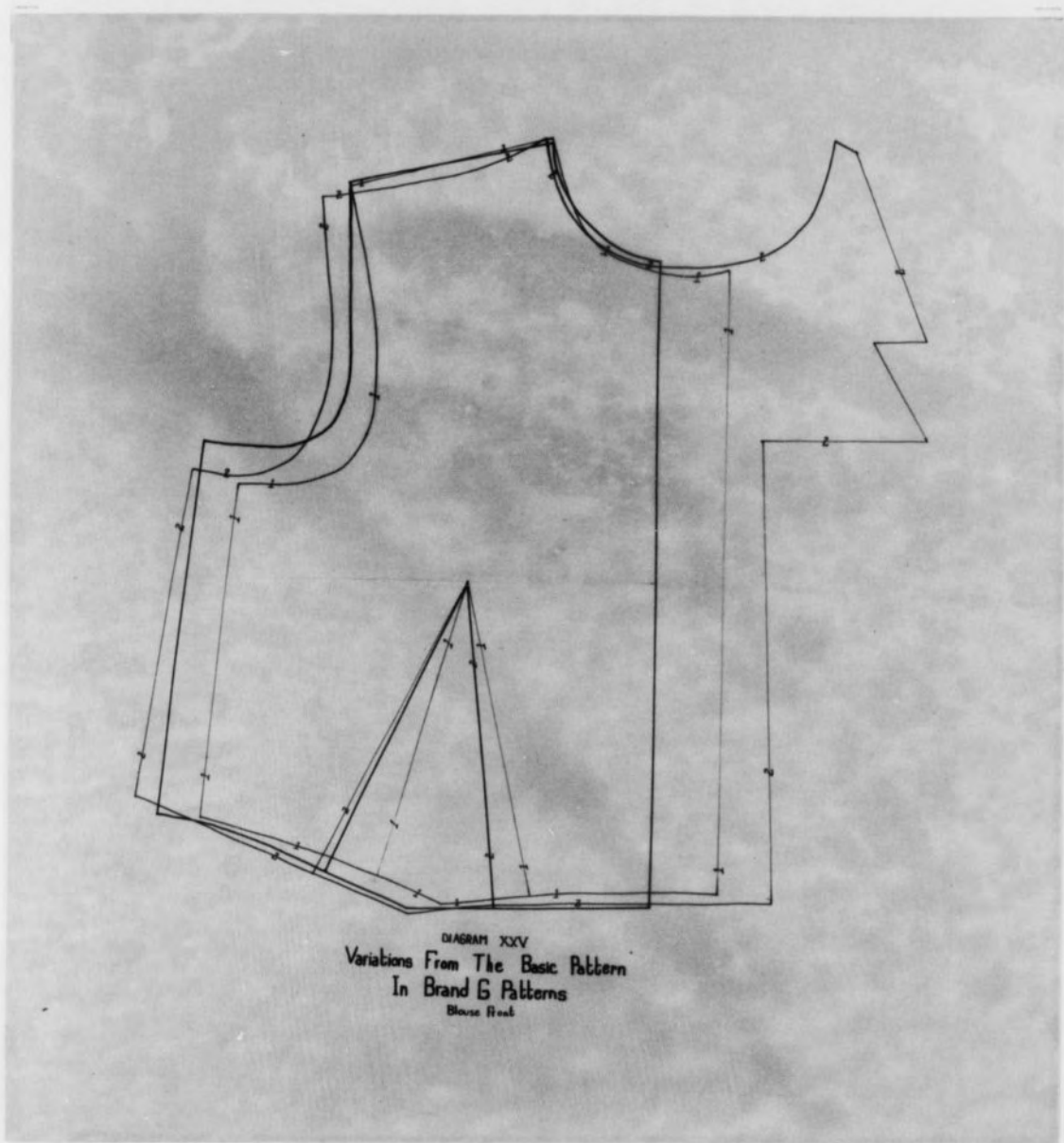
\*\*No measurement was made on that pattern.

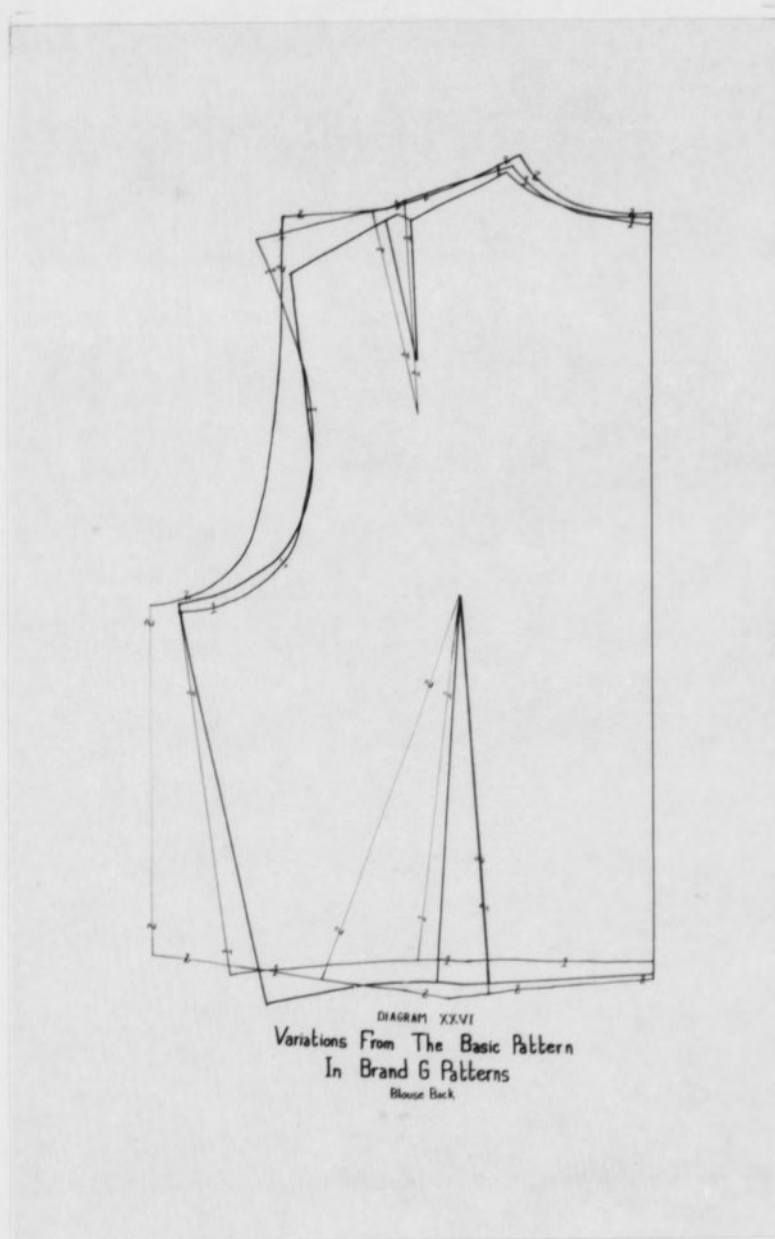
TABLE XV (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND G

Blouse Back

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	± .1875	- .3750	- .0938
27.	Neck width	- .1250	- .3125	- .2188
28.	Neck depth	± .2500	± .3125	± .2813
29.	Across shoulder	± .4375	± .4375	± .4375
30.	Slope of shoulder	± .7500	± 1.4375	± 1.0938
31.	Drop of shoulder	- .8750	- .8750	- .8750
32.	Shoulder seam	± .1875	± .5000	± .3438
33.	Shoulder draft width	± .1250	± .6250	± .3750
34.	Across chest	- .1250	± .6250	± .2500
35.	Bust width	± .1875	± .9375	± .5625
36.	Upper bust width	- .1250	± .4375	± .1563
37.	Full side length	± .3750	± .4375	± .4063
38.	Underarm length	- .9375	- 1.3125	- 1.1250
39.	Waist width	.0000	± .3750	± .1875
40.	Armhole curve	± 1.0625	± 1.1250	± 1.0988
41.	Full length	- .0625	± .5625	± .2500
42.	Neck curve	- .0625	- .0625	- .0625
43.	Neck curve depth	- .1250	± .1875	± .0313
44.	Armhole curve depth	± .1250	± .3750	± .2500
45.	Armhole depth	± 1.0000	± 1.3750	± 1.1875
46.	Armhole width	- .8125	± .3125	- .2500
47.	Shoulder dart	± 1.0°	± 1.0°	± 1.0°
48.	Neck dart	--**	--	--
49.	Waist dart	± 3.5°	± 15.5°	± 9.5°





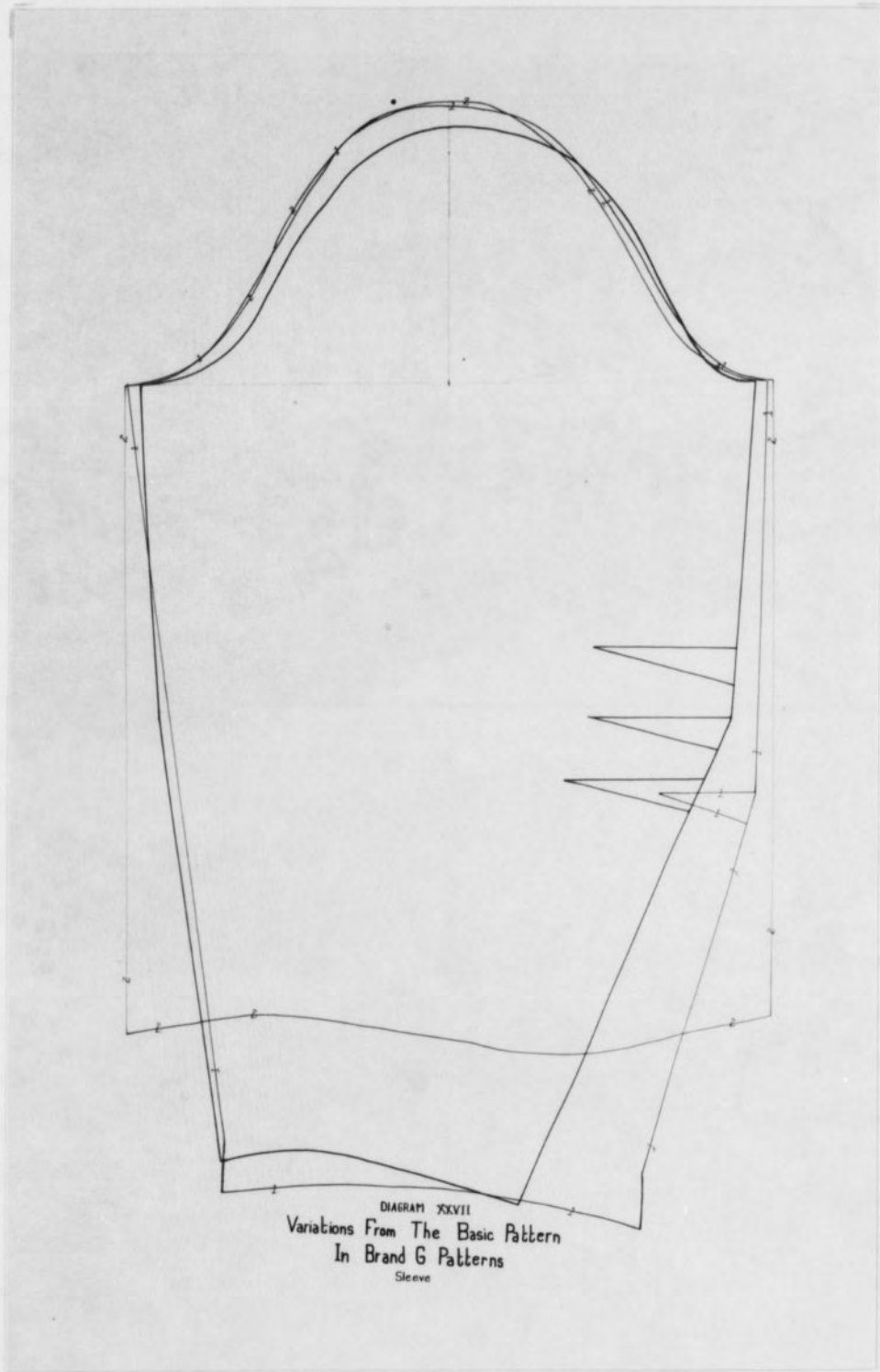


DIAGRAM XXVII  
Variations From The Basic Pattern  
In Brand G Patterns  
Sleeve

### 8. Brand H. (4 patterns)

The comparison of the variations from the Basic pattern of the Brand H patterns is shown in Table XVI.<sup>9</sup> The minimum, maximum, and mean variations from the Basic pattern are shown in Table XVII.

On the blouse front the neck width and depth were greater in all patterns with H1 being more than 1 inch greater in the neck depth. The neck curve was approximately 1/2 inch greater in H1, H2, and H3, and 1 inch greater in H4. Across the shoulder, shoulder seam, chest, and bust measurements were greater in all four patterns. The waist width was less in all patterns. The armhole depth was approximately 1 inch greater in all patterns and the width was approximately 1/2 inch less in H1 and H4, and approximately 3/4 inch less in H2 and H3. The armhole curve was slightly greater in all patterns. In the length measurements, the center front was from 1/4 to 1/2 inch greater; the full length was approximately 1/2 inch greater; the drop of shoulder was approximately 5/8 inch greater; the full side length was from 3 1/2 inches to 4 1/4 inches greater; and the underarm length was from 1/2 to 1 1/2 inches less than the Basic pattern. The slope of shoulder was approximately 1/2 inch greater in H1 but in H2, H3, and H4 it was less by approximately the same amount. The shoulder to waist was greater by approximately the same amount in all patterns. The waist darts measured 2 1/2 degrees less in H1, 6 1/2 degrees greater in H2, 5 degrees greater in H3, and 17 1/2 degrees less in H4.

The neck width, depth, and curve of the blouse back measurements were less except the neck width of H3 and H4 which were slightly greater.

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9. Measurements are given in Appendix Table VIII.

Across the shoulder and the shoulder seam were greater by more than  $1/2$  inch. The guide sheet indicated "ease" on the shoulder seam of the blouse back. The chest measurement of H1 did not vary but H2, H3, and H4 were slightly greater. The bust width did not vary in H2 and H4, but in H1 and H3 they were slightly less. The upper bust width varied from  $1/4$  inch less in H2 and H4,  $1/2$  inch less in H3, to 1 inch less in H1. In all patterns the waist width was less. The armhole depth was from  $1/4$  to  $1/2$  inch greater and the width was from  $3/4$  to more than 1 inch less. Though the center back length was slightly greater in H2, H3, and H4, it did not vary in H1. The full length was less on all patterns. Unusual was the lesser variation of the full side length. The underarm length was more than  $1/2$  inch less than the Basic pattern. The drop of shoulder was slightly less in H3 and H4 but approximately  $1/2$  inch greater in H1 and H2. The slope of shoulder was more than 1 inch greater in H1 and H4,  $1/2$  inch greater in H2 and slightly less than the Basic pattern in H3. There was no variation in the waist dart of H1. In H2 and H4 the variation was  $6\ 1/2$  degrees greater. H3 was  $1\ 1/2$  degrees less.

On the sleeve, the bicep, overarm length, underarm length, and elbow girth were less than the Basic pattern. The elbow girth was more than 1 inch less in all patterns while the wrist girth was more than 1 inch greater in all patterns except H3 which was approximately  $1/2$  inch greater. H1, H3, and H4 were less than the Basic pattern measurement of the cap curve.

The following likenesses, differences, and correlations were noted. When the neck width and depth were greater on the blouse front, they were less on the blouse back, except for the neck widths of patterns H2 and H3 which were slightly greater. The total neck curve was

greater in all patterns indicating a greater neck opening. The across shoulder and shoulder seam measurements were greater in all patterns. Though the chest width was greater on the blouse front of all the patterns, the blouse back varied slightly greater in H2, H3, and H4. While the bust width of the blouse front was greater, the blouse back did not vary in H2 and H4 and varied slightly less in H1 and H3. The total bust width was greater than the Basic pattern. The total waist width was from 1/2 to more than 1 1/2 inches less. The full length was greater on the blouse front but less on the blouse back. There appeared to be a correlation between the greater neck width, shoulder seam, and lesser armhole width; and the greater armhole depth, full side length and use of shoulder pad. On the blouse front, the greater armhole depth, greater full side length, and lesser underarm seam appeared to be related also. Unusual were the greater total armhole curve and lesser cap curve of the sleeve. On the blouse back Brand H was the only pattern that varied less in the full side length, underarm length, and drop of shoulder except two patterns of Brand C and one of Brand F.

The variations of the different pieces of pattern are shown in Diagrams XXVIII, XXIX, and XXX.



TABLE XVI

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Blouse Front

Number	Name of Measurement	Variations*			
		H1	H2	H3	H4
1.	Center front length	+ .3750	+ .1250	+ .5000	+ .4375
2.	Neck width	+ 1.2500	+ .3125	+ .3125	+ .2500
3.	Neck depth	+ .3125	+ .5000	+ .1875	+ .6875
4.	Across shoulder	+ .6875	+ .8125	+ 1.8125	+ .7500
5.	Slope of shoulder	+ .4375	- .5625	- .5625	- .6250
6.	Drop of shoulder	+ .4375	+ .4375	+ .4375	+ .4375
7.	Shoulder seam	+ .6250	+ .6875	+ .6875	+ .6250
8.	Across chest	+ .2500	+ .3125	+ .1875	+ .1875
9.	Bust width	+ .5000	+ .6875	+ .6250	+ .5000
10.	Upper bust width	+ .1875	+ .1250	+ .1875	+ .1875
11.	Full side length	+ 4.2500	+ 3.6875	+ 3.5625	+ 4.1250
12.	Underarm length	- .6875	- 1.4375	- 1.6875	- .7500
13.	Waist width	- .1875	- .4375	- .4375	- .4375
14.	Armhole curve	+ .3125	+ .3125	+ .3750	+ .1875
15.	Height of bust	+ .1875	+ .0625	+ .2500	+ .1875
16.	Armhole curve depth	+ .2500	+ .5625	+ .5625	+ .2500
17.	Neck curve depth	- .1875	+ .0625	- .1875	.0000
18.	Bust point width	- .0625	+ .5000	- .1875	- .5625
19.	Full length	+ .6875	+ .6250	+ .6875	+ .6250
20.	Neck curve	+ .5625	+ .6250	+ .4375	+ 1.0000
21.	Dart point to bust point	+ 1.1250	--**	+ 1.4375	--
22.	Armhole depth	+ .8750	+ 1.0625	+ 1.0625	.8125
23.	Armhole width	- .5625	- .8125	- .7500	- .6875
24.	Shoulder to waist	+ .8125	+ .8750	+ .8125	+ .4375
25.	Waist dart	- 2.5°	+ 6.5°	+ 5.0°	-17.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XVI (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Blouse Back

Number	Name of Measurement	Variations*			
		H1	H2	H3	H4
26.	Center back length	.0000	+ .0625	+ .3125	+ .3125
27.	Neck width	- .3125	- .1250	+ .2500	+ .0625
28.	Neck depth	- .2500	- .1875	- .5625	- .3750
29.	Across shoulder	+ .6250	+ .8125	+ .8125	+ .5625
30.	Slope of shoulder	+ 1.3750	+ .5625	- .1250	+ 1.9375
31.	Drop of shoulder	- .4375	- .4375	- .0625	- .0625
32.	Shoulder seam	+ .6875	+ .7500	+ .6875	+ .6875
33.	Shoulder draft width	+ .2500	+ .4375	+ .6250	+ .5000
34.	Across chest	.0000	+ .1250	+ .3125	+ .1250
35.	Bust width	- .1875	.0000	- .2500	.0000
36.	Upper bust width	- 1.0000	- .2500	- .5625	- .2500
37.	Full side length	- .2500	- .1250	- .3125	- .2500
38.	Underarm length	- .6875	- .6250	- .6250	- .6875
39.	Waist width	- .3125	- .1875	- .1875	- .8125
40.	Armhole curve	+ .0625	+ .2500	+ .0625	+ .0625
41.	Full length	- .2500	- .1875	- .2500	- .0625
42.	Neck curve	- .3750	- .2500	- .3125	- .1250
43.	Neck curve depth	- .0625	- .0625	- .1875	- .1250
44.	Armhole curve depth	+ .0625	+ .0625	- .2500	.0000
45.	Armhole depth	+ .5000	+ .3750	+ .4375	+ .2500
46.	Armhole width	- .7500	- .8125	- 1.1875	- .8125
47.	Shoulder dart	--**	--	--	--
48.	Neck dart	--**	--	--	--
49.	Waist dart	.0°	+ 6.5°	- 1.5°	+ 6.5°

TABLE XVI (Continued)

VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Sleeve

Number	Name of Measurement	Variations*			
		H1	H2	H3	H4
50.	Bicep	- .6250	- .4375	- .5625	- .5000
51.	Overarm length	- .8750	- .0625	- .8125	- .7500
52.	Sleeve cap height	+ .4375	+ .7500	+ .5000	+ .5000
53.	Overarm to elbow	+ .3125	+ .8750	+ .3750	+ .3750
54.	Underarm length	- 1.3125	- .6875	- 1.2500	- 1.2500
55.	Underarm length from bicep to elbow	.0000	+ .2500	.0000	.0000
56.	Elbow girth	- 1.6250	- 1.5000	- 1.8125	- 1.6250
57.	Wrist girth	+ 1.4375	+ 1.3750	+ .4375	+ 1.4375
58.	Cap curve	- .2500	+ .3125	- .0625	- .0625

TABLE XVII

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Blouse Front

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
1.	Center front length	± .1250	± .5000	± .3594
2.	Neck width	± .2500	± 1.2500	± .5313
3.	Neck depth	± .1875	± .6875	± .4219
4.	Across shoulder	± .6875	± 1.8125	± 1.0156
5.	Slope of shoulder	± .4375	- .6250	- .3281
6.	Drop of shoulder	± .4375	± .4375	± .4375
7.	Shoulder seam	± .6250	± .6875	± .6563
8.	Across chest	± .1875	± .3125	± .2344
9.	Bust width	± .5000	± .6875	± .5781
10.	Upper bust width	± .1250	± .1875	± .1719
11.	Full side length	± 3.5625	± 4.2500	± 3.9063
12.	Underarm length	- .6875	- 1.6875	- 1.1409
13.	Waist width	- .1875	- .4375	- .3750
14.	Armhole curve	± .1875	± .3750	± .2969
15.	Height of bust	± .0625	± .2500	± .1719
16.	Armhole curve depth	± .2500	± .5625	± .4063
17.	Neck curve depth	.0000	- .1875	- .0781
18.	Bust point width	- .0625	- .5625	- .0781
19.	Full length	± .6250	± .6875	± .6563
20.	Neck curve	± .4375	± 1.0000	± .6563
21.	Dart point to bust point	± 1.1250	± 1.4375	± 1.2813
22.	Armhole depth	± .8125	± 1.0625	± .9531
23.	Armhole width	- .5625	- .8125	- .7031
24.	Shoulder to waist	± .4375	± .8750	± .7344
25.	Waist dart	- 2.5°	-17.5°	- 2.1°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XVII (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Blouse Back

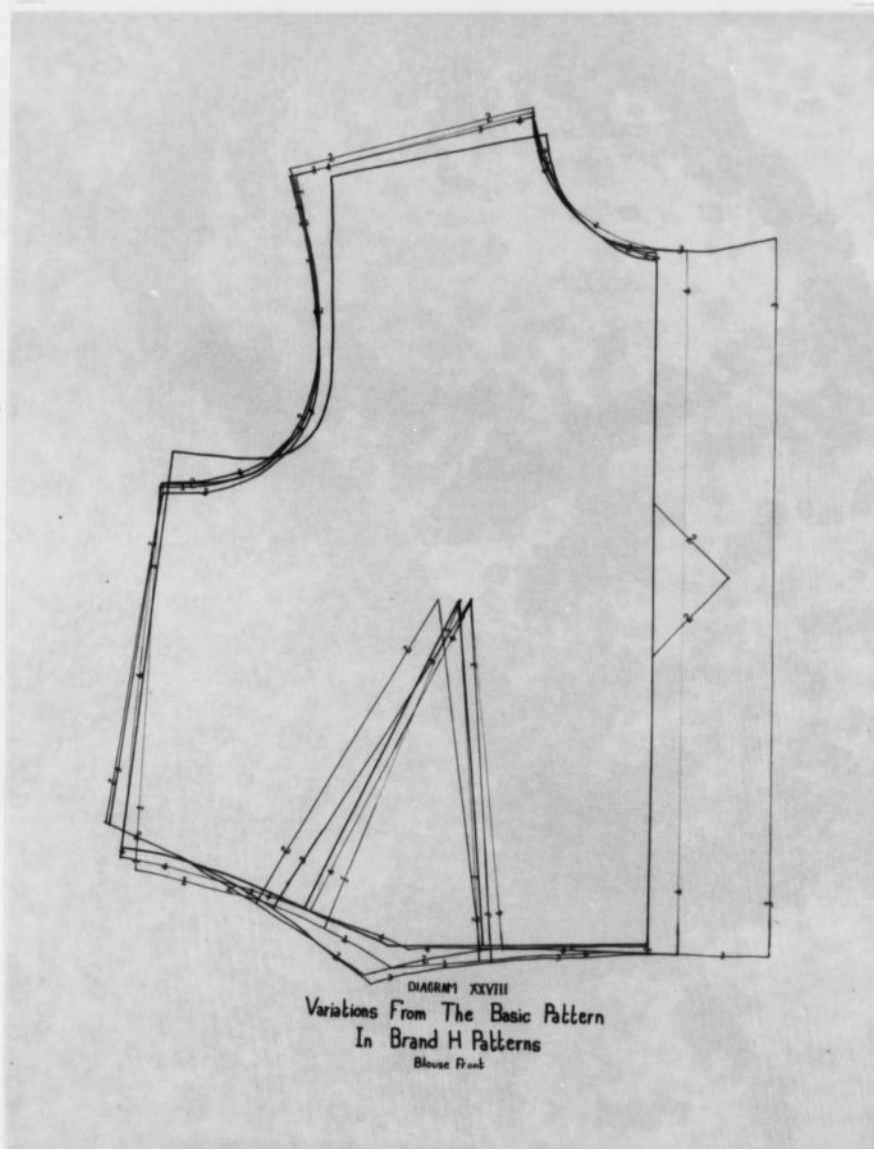
Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
26.	Center back length	.0000	± .3125	± .1719
27.	Neck width	± .0625	- .3125	- .0313
28.	Neck depth	- .1875	- .5625	- .3438
29.	Across shoulder	± .5625	± .8125	± .7031
30.	Slope of shoulder	- .1250	± 1.9375	± .9375
31.	Drop of shoulder	- .0625	- .4375	- .2500
32.	Shoulder seam	± .6875	± .7500	± .7031
33.	Shoulder draft width	± .2500	± .6250	± .4531
34.	Across chest	.0000	± .3125	± .1406
35.	Bust width	.0000	- .2500	- .1094
36.	Upper bust width	- .2500	- 1.0000	- .5156
37.	Full side length	- .1250	- .3125	- .2344
38.	Underarm length	- .6250	- .6875	- .6563
39.	Waist width	- .1875	- .8125	- .3750
40.	Armhole curve	± .0625	± .2500	± .1094
41.	Full length	- .0625	- .2500	- .1875
42.	Neck curve	- .1250	- .3750	- .2656
43.	Neck curve depth	- .0625	- .1875	- .1091
44.	Armhole curve depth	.0000	- .2500	- .0313
45.	Armhole depth	± .2500	± .5000	± .3906
46.	Armhole width	- .7500	- 1.1875	- .8906
47.	Shoulder dart	--**	--	--
48.	Neck dart	--**	--	--
49.	Waist dart	.0°	± 6.5°	± 2.9°

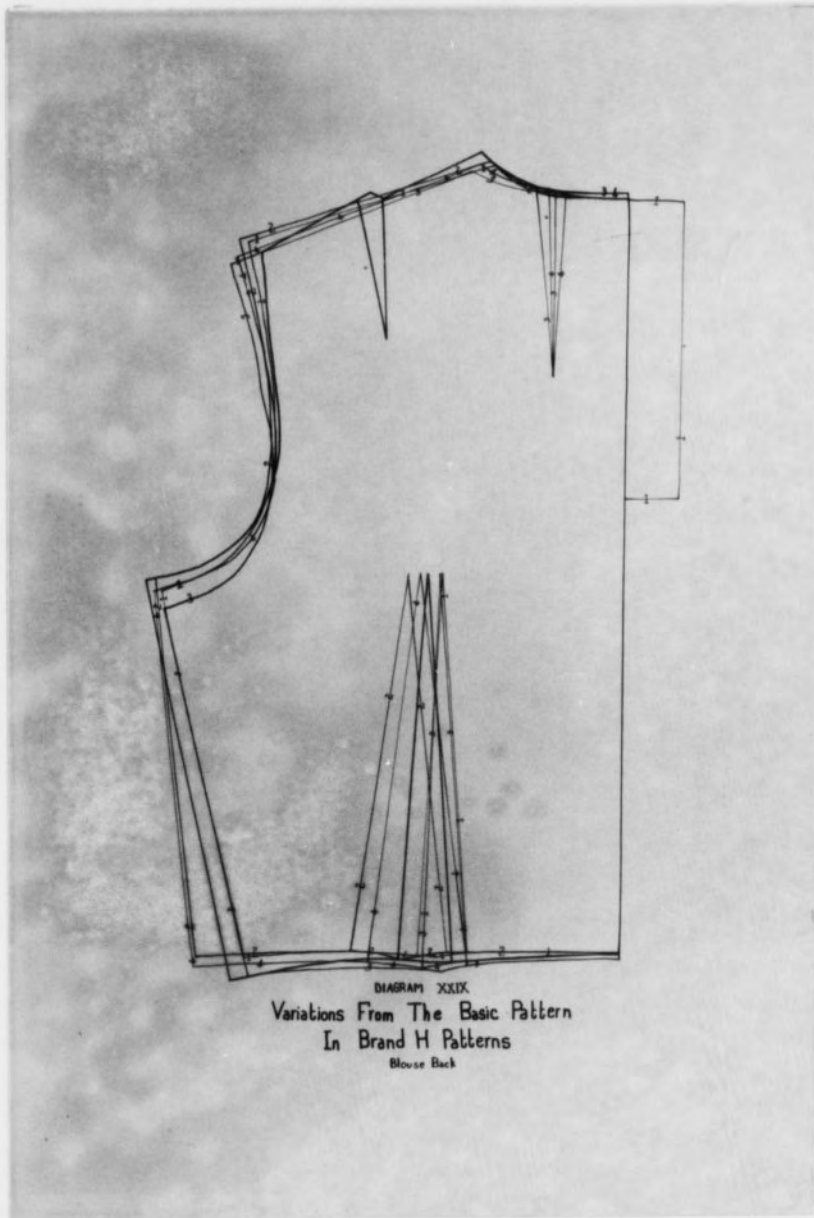
TABLE XVII (Continued)

MINIMUM, MAXIMUM AND MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BRAND H

Sleeve

Number	Name of Measurement	Variations*		
		Minimum	Maximum	Mean
50.	Bicep	- .4375	- .6250	- .5313
51.	Overarm length	- .0625	- .8750	- .6250
52.	Sleeve cap height	± .4375	± .7500	± .5469
53.	Overarm to elbow	± .3125	± .8750	± .4844
54.	Underarm length	- .6875	- 1.3125	- 1.1250
55.	Underarm length from bicep to elbow	.0000	± .2500	± .0625
56.	Elbow girth	- 1.5000	- 1.8125	- 1.6406
57.	Wrist girth	± .4375	± 1.4375	± 1.1719
58.	Cap curve	- .0625	± .3125	- .0156







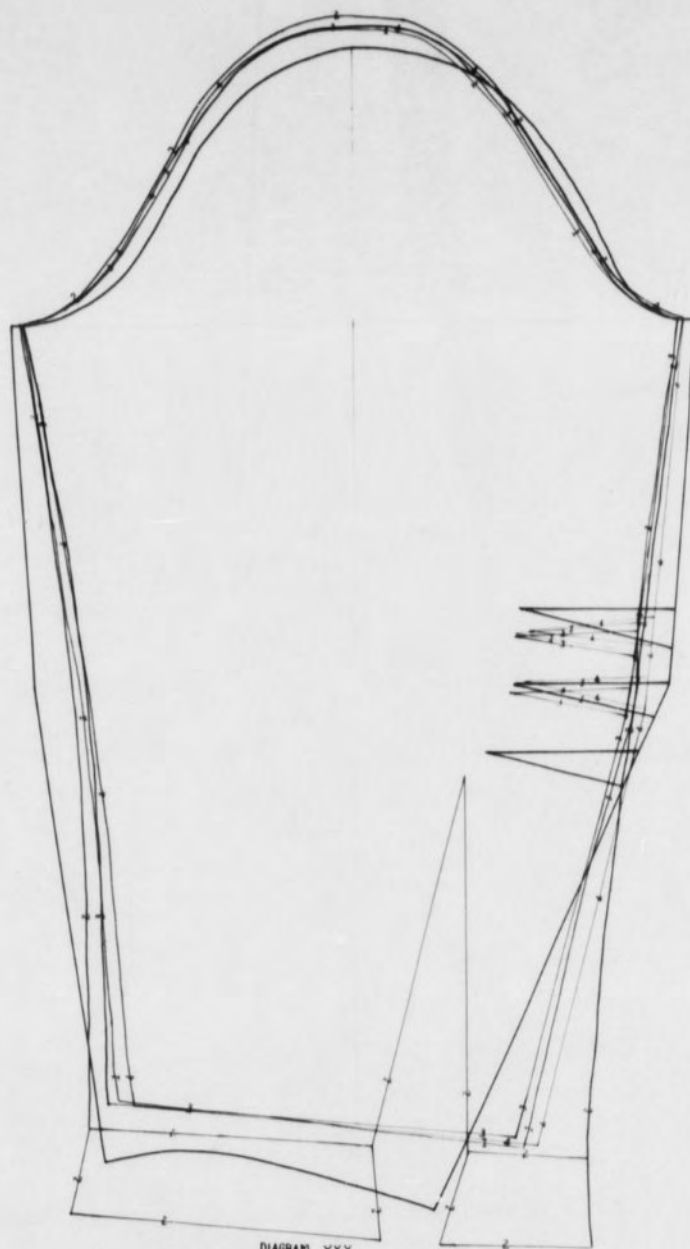


DIAGRAM XXX  
Variations From The Basic Pattern  
In Brand H Patterns  
Sleeve

Mean Variations of Size 16 Patterns in the Eight Brands

A comparison of the mean variations from the Basic pattern in the measurements of size 16 patterns of the eight different brands is shown in Table XVIII.

The neck width on the blouse front was from  $1/4$  to  $1/2$  inch greater in all except Brands D and E. Brand D did not vary while Brand E was less by approximately  $1/4$  inch. The neck depth was greater in all except Brand C, which was slightly less. In each brand, when the neck width was slightly greater, the neck depth was greater by a greater variation and vice versa. The neck curve of the blouse front varied from  $1/4$  to approximately 1 inch in all except Brand C, which did not vary. Brand F had the greatest variation. This was slightly above  $9/10$  inch.

Across the shoulder on the blouse front was from  $5/16$  to approximately  $1\ 1/4$  inches greater than the Basic pattern. The shoulder seam was greater by approximately  $1/2$  inch to 1 inch. Across the chest was greater in all brands except Brand C, and Brand G. These were slightly less. The bust width varied slightly greater in Brands C, D, and G. In all other brands the bust measurement was approximately  $1/2$  inch greater than the Basic pattern. Brands C, D, E, and G had an upper bust width which was from  $1/4$  to  $7/16$  inch less than the Basic pattern. In Brands A, B, F, and H, the upper bust was greater by from  $1/16$  to  $1/4$  inch. The waist width was from  $1/16$  to  $5/16$  inch less than the Basic pattern in Brands A, G, and H, while in Brands B, C, D, E, and F it was slightly greater.

In the armhole measurements on the blouse front, the armhole depth was more than 1 inch greater in all brands except Brands G and H. The armhole width was from  $1/2$  to 1 inch less than the Basic pattern in

all except Brand E. The armhole curve depth was greater by less than  $1/2$  inch in all patterns. Brand B was the only brand in which the armhole curve was greater by as much as  $1/2$  inch.

The center front length of the blouse did not vary in Brand F. In Brands A, B, E, and G, it varied from  $1/32$  to approximately  $7/16$  inch less than the Basic pattern. In Brands C, D, and H, it was approximately  $5/16$  inch greater. The full length of the blouse front was from  $1/4$  to  $3/4$  inch greater in all except Brand G, which was  $1/4$  inch less. Brands A, B, C, D, E, and F were greater than the Basic pattern in the measurements of the slope of the shoulder and drop of the shoulder. In Brand E the drop of the shoulder was less than the Basic pattern, while in Brand G and Brand H, the slope of the shoulder was less, and the drop of the shoulder was greater than the Basic pattern. When the amount of variation in the drop of the shoulder was greater, the amount of variation in the slope of the shoulder was less, and vice versa. The full side length was more than  $4 \frac{3}{16}$  inches greater in all brands except Brand G and Brand H, which were approximately  $3 \frac{1}{2}$  and 4 inches greater respectively. In all brands, the underarm length was less by approximately  $1/2$  inch to slightly more than 1 inch. The shoulder to waist measurement varied from approximately  $5/16$  to 1 inch greater.

In all brands except Brand A and Brand E, the waist dart was less than the Basic pattern. In Brand A the variation was approximately 1 degree greater while in Brand E, there was no variation. The greatest variation of the waist dart was in Brand F which was  $7 \frac{1}{2}$  degrees less than the Basic pattern.

On the blouse back the neck width was less in all brands. The neck depth was less in all brands except Brands E and G which were  $1/4$

inch less than the Basic pattern. The neck curve was less in all brands but Brand B. Brand B was more than  $1/2$  inch greater. The neck curve depth was less in all patterns except Brand E and Brand G. In these it was slightly greater.

Across the shoulder on the blouse back was slightly greater in Brand B,  $3/8$  inch greater in Brand A,  $7/16$  inch greater in Brands C and G,  $3/4$  inch greater in Brand E and Brand H,  $7/8$  inch greater in Brand F, and  $1\ 1/8$  inches greater in Brand D. The shoulder seam was from  $3/8$  inch to  $1\ 1/4$  inches greater in all brands. The shoulder draft width was approximately  $1/2$  inch greater than the Basic pattern in all brands except Brand C which was  $3/16$  inch greater. Across the chest was not more than  $1/4$  inch greater in any brand. The bust and upper bust widths were less except in Brand G. They were greater in this brand. The waist width was from  $1/8$  to  $3/4$  inch less in all brands except Brand G, which was  $3/16$  inch greater.

While the armhole depth was greater in all brands, the armhole width was less than the corresponding measurements of the blouse back on the Basic pattern. The armhole curve depth was slightly less in all brands except Brand D, Brand F, and Brand G. The armhole curve did not vary in Brand F. In Brands D and G, it varied from  $1/8$  inch to  $1\ 1/16$  inches.

The center back length was greater in all brands except Brand C and Brand G. The full length was greater in all brands except Brands C and H. Brand B with approximately a  $1/8$  inch greater variation from the Basic pattern had the least variation in the slope of the shoulder. In Brand F and Brand C, the slope of the shoulder was  $11/32$  and  $3/4$  inch greater respectively. In all other brands the variation was greater

than 1 inch. The drop of the shoulder was less in all brands. The full side length was from  $1/4$  to  $1/2$  inch greater than the Basic pattern in all brands except Brand C and Brand H. The variation of these was less than the Basic pattern. The underarm length measurement varied from  $3/8$  inch to  $1 1/4$  inches.

The shoulder dart on the blouse back was  $1/2$  degree greater in Brands B and D and 1 degree greater in Brand G. The waist dart of Brand C was slightly less than the Basic pattern, while in the other seven brands, the dart was from  $1/2$  of a degree to  $9 1/2$  degrees greater.

In the width measurements of the sleeve, the bicep was approximately  $1/4$  to  $1/2$  inch less than the Basic pattern except in Brand D which was approximately  $1/4$  inch greater, and Brand G which was  $11/16$  of an inch greater. The elbow girth was approximately  $3/4$  inch less than the Basic pattern in Brands A and D,  $1 3/4$  inches less in Brands B, C, F, and H, and  $1/4$  inch greater in Brand G. The wrist girth was approximately  $5/16$  inch greater in Brands A and F,  $1/2$  inch greater in Brand B,  $13/16$  inch greater in Brands C and D,  $1 1/8$  inches greater in Brand H, and  $2 13/16$  inches greater in Brand G.

In the length measurements of the sleeve, the overarm length was less than the Basic pattern in all brands except Brands B, D, and E. Brand B did not vary. Brand D was  $1/8$  inch greater and on Brand E patterns no overarm length measurement was taken. The sleeve cap height was greater by approximately  $1/2$  inch in all brands. In the overarm to elbow the variation was approximately  $3/4$  inch greater than the Basic pattern in Brands A, B, C, and D. In Brand E this measurement was not made. Brands F and H were approximately  $1/2$  inch greater and Brand G was approximately  $1 5/16$  inches greater. The underarm length was approx-

imately 1 inch less than the Basic pattern in Brands A, B, C, F, and H. Brand D was approximately  $\frac{3}{8}$  inch less, and Brand G was greater by the same amount. The underarm length from bicep to elbow was slightly greater in all brands where the measurement was made. The cap was less than  $\frac{1}{2}$  inch greater than the Basic pattern in Brands A, C, and D, approximately  $\frac{9}{16}$  inch greater in Brand F,  $1\frac{1}{4}$  inches greater in Brand G, and slightly less than the Basic pattern in Brands B, E, and H.

The following likenesses, differences, and correlations were noted in width measurements. In the neck width, when the blouse front was greater than the Basic pattern the blouse back was less, except in two brands. Brand D had a less variation in the blouse back and did not vary in the blouse front, and Brand E was less by the same amount in the blouse front and back. When the neck depth was less on the blouse back, it was greater on the blouse front except in Brands C, E, and G. Brand C had a lesser front and back neck depth. Brands E and G had a greater front and back neck depth. The total neck curve was greater in all brands except Brand C and Brand D. The neck width and shoulder seam on the blouse front were greater than the Basic pattern on all brands except Brand E. On the blouse back, the neck width was less than the Basic pattern which would seem to indicate a greater shoulder seam width. The shoulder seam width was greater in the back than the Basic pattern, but the variation in the front shoulder seam was greater than the variation in the back shoulder seam in Brands A, B, C, and E. In Brands D and G there was no variation in the width of the back and front shoulder seams. In Brands F and H, the shoulder seam width was greater on the blouse back. The across the shoulder measurement of the blouse front and back were greater than the Basic pattern. Across the chest measurement of

the blouse back was greater in all brands than the Basic pattern. In the blouse front, the across chest measurement was greater in all except Brands C and G. Though the bust width was greater on the blouse front in all brands and less on the blouse back in all brands except Brand G, the total bust width was greater than the Basic pattern. The total upper bust width was less in all brands than the Basic pattern. The total waist width was less in all brands except Brand F. Generalizing from the above likenesses and differences, it appears that across the shoulder, chest, and bust widths were greater than the Basic pattern in all brands, and the upper bust and waist widths were less than the Basic pattern in all Brands with one exception. This exception was the waist width of Brand F which was the only Brand with a less waist width.

Likenesses, differences, and correlations noted in the length measurements included the following. On the blouse front when the center front length was less, the neck depth was greater. In all brands except Brand G, the neck depth plus the center front length made a greater full length on the blouse front than the Basic pattern. On the blouse back when the center back length was greater than the Basic pattern, the neck depth was less than the Basic pattern or vice versa, except in the case of Brand C which had a lesser center back length and neck depth. Adding the center back length and the neck depth gave a greater back full length than the Basic pattern in all except Brands C and H. In these two brands the slope of shoulder was greater than the Basic pattern, and the drop of shoulder was less on the blouse front. On the blouse back in each brand, the slope of the shoulder and the drop of the shoulder were greater than the Basic pattern. On the blouse front the full side length and drop of the shoulder seam were greater with the exception of the

drop of the shoulder in Brand E which was less than the Basic pattern. On the blouse back, when the drop of the shoulder was less the full side length was greater, except in Brands C and H. The thickness of the shoulder pad seemed to have some relationship with the combined front and back drop of shoulder and the full side length. Brands B and C called for shoulder pads that were 1/2 inch thick at the shoulder seam and Brand E called for pads that were 1 inch thick. Brands A, D, F, G, and H called for shoulder pads, but no thickness was stated. The Basic pattern had no allowance for shoulder pads. A lesser variation from the Basic pattern in the drop of the shoulder would seem to indicate a greater full side length. When the full side length and drop of shoulder or slope of shoulder and drop of shoulder were combined, it appeared that part of the greater length was the allowance for the shoulder pad. The shoulder to waist length was greater in all brands than the Basic pattern. There also appeared to be some relationship between the lesser underarm seam, greater armhole depth, and greater drop of shoulder seam on the blouse front. Unusual were these same measurements on the blouse back. The underarm seam was lesser, and the armhole depth was greater, but the drop of the shoulder was less.

Correlations noted in the sleeve measurements were as follows: The total armhole curve and sleeve cap curve were greater in all brands except the cap of Brand B, Brand E, and Brand H. The sleeve cap height and armhole depth were greater in all patterns. Corresponding to the lesser upper bust in all brands was the lesser sleeve bicep width.



TABLE XVI

MEAN VARIATIONS FROM THE  
IN THE MEASUREMENTS OF  
ALL BRANDS

Blouse Front

Number	Name of Measurement	Brand			Mean
		A	B	C	
1.	Center front length	- .0625	- .0313	+ .1094	+
2.	Neck width	+ .1250	+ .2813	+ .1254	+
3.	Neck depth	+ .4688	+ .0208	- .0938	+
4.	Across shoulder	+ .9313	+ .7500	+ .5625	+
5.	Slope of shoulder	+ .6563	+ .3750	+ .1406	+
6.	Drop of shoulder	+ .1094	+ .0833	+ .4063	+
7.	Shoulder seam	+ .8750	+ .6042	+ .6563	+
8.	Across chest	+ .5625	+ .2708	- .0313	+
9.	Bust width	+ .6250	+ .3542	+ .0469	+
10.	Upper bust width	+ .2500	+ .0833	- .2031	-
11.	Full side length	+ 4.5000	+ 4.4271	+ 4.1875	+ 4.
12.	Underarm length	- .6563	- .8750	- .8125	- 1.
13.	Waist width	- .0938	+ .2083	+ .0156	+
14.	Armhole curve	+ .4531	+ .6875	+ .3125	+
15.	Height of bust	- .0156	- .0208	+ .0469	+
16.	Armhole curve depth	+ .1563	+ .2604	+ .1875	+
17.	Neck curve depth	- .0469	- .1250	- .0938	-
18.	Bust point width	+ .0156	- .1354	.0000	-
19.	Full length	+ .5625	+ .1250	+ .2031	+
20.	Neck curve	+ .5000	+ .4792	.0000	+
21.	Dart point to bust point	+ .3438	+ .3542	+ .7188	+
22.	Armhole depth	+ 1.1563	+ 1.3333	+ 1.0000	+ 1.
23.	Armhole width	- .5469	- .7083	- .9375	- 1.
24.	Shoulder to waist	+ .7656	+ .3021	+ .3438	+
25.	Waist dart	+ .8°	- 5.8°	- 6.9°	- 4.

\*Variations are given in inches except for variations 25, 47,

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XVIII

MEAN VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
ALL BRANDS

Blouse Front

Mean Variations*						
Brand B	Brand C	Brand D	Brand E	Brand F	Brand G	Brand H
- .0313	+ .1094	+ .3125	- .1875	.0000	- .4063	+ .3594
+ .2813	+ .1254	.0000	- .2188	+ .1563	+ .1250	+ .5313
+ .0208	- .0938	+ .1250	+ .6875	+ .7813	+ .2813	+ .4219
+ .7500	+ .5625	+ .8438	+ 1.2188	+ 1.0313	+ .3125	+ 1.0156
+ .3750	+ .1406	+ .6250	+ 1.3125	+ .2063	- .2500	- .3281
+ .0833	+ .4063	+ .2813	- .5000	+ .7500	+ .3125	+ .4375
+ .6042	+ .6563	+ .9688	+ 1.0313	+ 1.0938	+ .3438	+ .6563
+ .2708	- .0313	+ .2188	+ .2500	+ .4063	- .1563	+ .2344
+ .3542	+ .0469	+ .1875	+ .3438	+ .4375	+ .1563	+ .5781
+ .0833	- .2031	- .1250	- .2500	+ .2188	- .3438	+ .1719
+ 4.4271	+ 4.1875	+ 4.1875	+ 4.8438	+ 4.3125	+ 3.5625	+ 3.9063
- .8750	- .8125	- 1.0625	- .4063	- .4375	- 1.2813	- 1.1409
+ .2083	+ .0156	+ .1250	+ .0938	+ .3125	- .1875	- .3750
+ .6875	+ .3125	+ .1875	+ .1563	+ .3438	+ .2500	+ .2969
- .0208	+ .0469	+ .1563	- .0938	.0000	- .1875	+ .1719
+ .2604	+ .1875	+ .4688	+ .0938	+ .3750	+ .1875	+ .4063
- .1250	- .0938	- .1875	+ .3438	- .2500	- .3125	- .0781
- .1354	.0000	- .3125	- .0313	+ .0313	+ .1563	- .0781
+ .1250	+ .2031	+ .3750	+ .5000	+ .7813	- .1250	+ .6563
+ .4792	.0000	+ .2500	+ .3750	+ .9063	+ .3438	+ .6563
+ .3542	+ .7188	+ .6875	--**	- .0625	--	+ 1.2813
+ 1.3333	+ 1.0000	+ 1.1875	+ 1.2813	+ 1.1875	+ .7500	+ .9531
- .7083	- .9375	- 1.0625	+ .1250	- .8750	- .7188	- .7031
+ .3021	+ .3438	+ .5313	+ .6563	+ .9688	+ .1563	+ .7344
- 5.8°	- 6.9°	- 4.5°	.0°	- 7.5°	- .8°	- 2.1°

ept for variations 25, 47, 48, and 49, which are given in degrees.

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TABLE XVIII (C)

MEAN VARIATIONS FROM 5  
IN THE MEASUREMENTS OF  
ALL BRANDS

Blouse B

Number	Name of Measurement	Brand			M
		A	B	C	
26.	Center back length	+ .4063	+ .3229	- .0313	+
27.	Neck width	- .4375	- .4271	- .0938	-
28.	Neck depth	- .1250	- .1104	- .2344	-
29.	Across shoulder	+ .3750	+ .1979	+ .4688	+ 1
30.	Slope of shoulder	+ 1.1875	+ .1042	+ .7500	+ 1
31.	Drop of shoulder	- .3594	- .4271	- .2656	-
32.	Shoulder seam	+ .7031	+ .3750	+ .5313	+
33.	Shoulder draft width	+ .5469	+ .2083	+ .1875	+
34.	Across chest	+ .1719	+ .0833	+ .0625	+
35.	Bust width	- .1881	- .5521	- .6094	-
36.	Upper bust width	- .3438	- .8125	- .8906	-
37.	Full side length	+ .3750	+ .3542	- .0469	+
38.	Underarm length	- .5625	- .7500	- .7500	-
39.	Waist width	- .7500	- .5208	- .7500	-
40.	Armhole curve	+ .5625	+ .5104	+ .2188	+
41.	Full length	+ .2813	+ .0417	- .2969	+
42.	Neck curve	- .4688	+ .5313	- .3281	-
43.	Neck curve depth	- .1409	- .0833	- .0625	-
44.	Armhole curve depth	- .0469	- .0208	- .1250	+
45.	Armhole depth	+ .9531	+ 1.1563	+ .8281	+ 1.
46.	Armhole width	- .7344	- 1.1563	- .8445	-
47.	Shoulder dart	.0°	+ .5°	--**	+
48.	Neck dart	--**	--	--	--
49.	Waist dart	+ 4.3°	+ .6°	- .1°	+ 3.

TABLE XVIII (Continued)

MEAN VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
ALL BRANDS

Blouse Back

Mean Variations*						
Brand B	Brand C	Brand D	Brand E	Brand F	Brand G	Brand H
+ .3229	- .0313	+ .6875	+ .0625	+ .4688	- .0938	+ .1719
- .4271	- .0938	- .3125	- .2188	- .4688	- .2188	- .0313
- .1104	- .2344	- .2813	+ .2500	- .4063	+ .2813	- .3438
+ .1979	+ .4688	+ 1.1250	+ .7500	+ .8750	+ .4375	+ .7031
+ .1042	+ .7500	+ 1.6563	+ 1.0625	+ .3438	+ 1.0938	+ .9375
- .4271	- .2656	- .1250	- .5313	- .4375	- .8750	- .2500
+ .3750	+ .5313	+ .9688	+ .8125	+ 1.1250	+ .3438	+ .7031
+ .2083	+ .1875	+ .6875	+ .4063	+ .4688	+ .3750	+ .4531
+ .0833	+ .0625	+ .4375	+ .0938	+ .1875	+ .2500	+ .1406
- .5521	- .6094	.0000	- .4375	- .4375	+ .5625	- .1094
- .8125	- .8906	- .3750	- .6250	- .7813	+ .1563	- .5156
+ .3542	- .0469	+ .5313	+ .8438	+ .2563	+ .4063	- .2344
- .7500	- .7500	- .9063	- .3750	- .4375	- 1.1250	- .6563
- .5208	- .7500	- .2813	- .1250	- .1250	+ .1875	- .3750
+ .5104	+ .2188	+ .8125	+ .7188	.0000	+ 1.0988	+ .1094
+ .0417	- .2969	+ .4375	+ .2813	+ .0938	+ .2500	- .1875
+ .5313	- .3281	- .4375	- .1563	- .1875	- .0625	- .2656
- .0833	- .0625	- .1875	+ .2188	- .0938	+ .0313	- .1091
- .0208	- .1250	+ .1250	- .0313	+ .1250	+ .2500	- .0313
+ 1.1563	+ .8281	+ 1.3750	+ 1.1063	+ .4688	+ 1.1875	+ .3906
- 1.1563	- .8445	- .9375	- 1.1563	- 1.2500	- .2500	- .8906
+ .5°	--**	+ .5°	--	--	+ 1.0°	--
--	--	--	--	--	--	--
+ .6°	- .1°	+ 3.8°	+ 1.3°	+ 3.5°	+ 9.5°	+ 2.9°

TABLE XVIII (Co

MEAN VARIATIONS FROM T  
IN THE MEASUREMENTS OF  
ALL BRAN

Sleeve

Number	Name of Measurement	Brand			M Br
		A	B	C	
50.	Bicep	- .2188	- .3542	- .3125	+
51.	Overarm length	- .6563	.0000	- .3750	+
52.	Sleeve cap height	+ .4375	+ .5729	+ .6875	+
53.	Overarm to elbow	+ .8594	+ .8750	+ .7500	+
54.	Underarm length	- 1.0741	- .9375	+ 1.0625	-
55.	Underarm length from bicep to elbow	+ .1406	+ .3438	+ .0625	+
56.	Elbow girth	- .8125	- 1.7500	- 1.5000	-
57.	Wrist girth	+ .2813	+ .4688	+ .8750	+
58.	Cap curve	+ .2625	- .0521	+ .0469	+

TABLE XVIII (Continued)

MEAN VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
ALL BRANDS

Sleeve

Mean Variations*						
Brand B	Brand C	Brand D	Brand E	Brand F	Brand G	Brand H
- .3542	- .3125	+ .2188	- .4375	- .1250	+ .6875	- .5313
.0000	- .3750	+ .1250	--**	- .4375	- .4375	- .6250
+ .5729	+ .6875	+ .5625	+ .5625	+ .5313	+ .4063	+ .5469
+ .8750	+ .7500	+ .8438	--**	+ .5938	+ 1.3125	+ .4844
- .9375	+ 1.0625	- .4063	--**	- .8750	+ .3750	- 1.1250
+ .3438	+ .0625	+ .3750	--**	+ .1563	+ .7500	+ .0625
- 1.7500	- 1.5000	- .7813	--**	- 1.7188	+ .2500	- 1.6406
+ .4688	+ .8750	+ .8125	--**	+ .3438	+ 2.6875	+ 1.1719
- .0521	+ .0469	+ .4063	- .1564	+ .5938	+ 1.1563	- .0156

Comparison of Total Bust and Waist Measurements  
Taken in the Data Collection with Those Given on the Pattern

The total bust and waist measurements taken in the data collection and those given on the pattern for the size 16 patterns are given in Table XIX.

All brands had a greater bust measurement than was indicated on the pattern envelope or guide sheet. The minimum and maximum variation in these measurements of the bust are given in Table XX. Brand E had the least variation but the measurement on the pattern instruction sheet was given as 35 1/2 inches instead of 34 as the other brands had indicated for the size 16 bust measurement. The following statement was made concerning the sizing of patterns of this brand: Brand E "patterns are cut in accordance with actual body measurements as are now prevalent for the average American woman." No mention could be found in the pattern book, on the envelope, or guide sheet about this brand using the Commercial Standard CS13-44. No reply was received from the letter requesting this information prior to the study. Brand C showed the lesser variation of the brands using 34 inches for the bust measurement of size 16 patterns. Brand B had the second lesser variation of this group and Brand F was third. Brands D, A, and H were fourth, fifth, and sixth respectively. The minimum variation of Brand G was approximately the same as Brand B in the case of design G1 but G2, which was decided later in the study to be a poor choice for the study, had an unusually high variation in bust width. The amount of variation between the size stated and the measurement taken would seem to depend upon the style of the pattern and the amount of ease each company considered necessary.

In the waist measurement, Brands A, B, C, and H had measurements

TABLE XIX

COMPARISON OF TOTAL BUST AND WAIST MEASUREMENTS  
TAKEN IN THE DATA COLLECTION WITH THOSE GIVEN ON THE PATTERN  
SIZE 16

Pattern	Measurements*			
	Bust		Waist	
	Data	Pattern	Data	Pattern
A1	39.7500	34	27.8750	28
A2	39.5000	34	28.1250	28
A3	40.2500	34	28.5000	28
A4	40.0000	34	26.0000	28
B1	38.6250	34	30.1250	28
B2	38.6250	34	27.8750	28
B3	38.2500	34	28.1250	28
B4	38.8750	34	28.1250	28
B5	38.5000	34	27.7500	28
B6	38.7500	34	29.7500	28
C1	37.6250	34	27.7500	28
C2	37.8750	34	28.0000	28
C3	37.8750	34	27.7500	28
C4	38.1250	34	27.7500	28
D1	39.0000	34	28.8750	28
D2	39.7500	34	29.0000	28
E1	39.1250	35½	29.1250	28½
E2	38.5000	35½	29.2500	28½
F1	38.8750	34	29.7500	28
F2	39.1250	34	29.5000	28
G1	38.5000	34	28.6250	—**
G2	42.3750	34	29.8750	28
H1	39.6250	34	28.2500	28
H2	40.3750	34	28.0000	28
H3	39.7500	34	33.1250	28
H4	40.0000	34	26.8750	28

\*All measurements are given in inches.

\*\*No measurement was given on this pattern.

less than those indicated on the pattern envelope or guide sheet. The minimum and maximum variation in these measurements of the waist width



are given in Table XX. Though Brand C was less than the 28 inches indicated as the measurement in C1, C3, and C4, there was no variation in C2. Brand D was approximately 1 inch greater in all patterns studied. Brand A had a greater waist width in A2 and A3 but was slightly less than 28 inches in A1 and 2 inches less in A4. Brand B was less by 1/4 and 1/8 inch in B2 and B5 respectively. B3 and B4 were 1/8 inch greater, but B1 was 2 1/8 inches greater and B6 was 1 3/4 inches greater. Brand E indicated a 28 1/2 inch waist and varied from 5/8 to 3/4 inch greater. Brand F had the greatest minimum positive variation which was 1 1/2 inches. Brand H had the greatest maximum variation of 5 1/8 inches. Brand H was irregular with H4 1 1/8 inches less, H2 exactly 28 inches, H1 1/4 inch greater and H3 5 1/8 inches greater. The only conclusion that could be made from the patterns which were less than 28 inches in the waist was that the pattern was not carefully sized, since the two brands with the greatest variations were printed patterns.

TABLE XX

COMPARISON OF THE MINIMUM AND MAXIMUM VARIATIONS  
IN THE TOTAL BUST AND WAIST MEASUREMENTS  
TAKEN IN THE DATA COLLECTION WITH THOSE GIVEN ON THE PATTERNS

Brand	Variations*			
	Bust		Waist	
	Minimum	Maximum	Minimum	Maximum
A	± 5 1/2	± 6 1/4	- 2	± 1/2
B	± 4 1/4	± 4 7/8	- 1/4	± 2 1/8
C	± 3 5/8	± 4 1/8	- 1/4	0
D	± 5	± 5 3/4	± 7/8	± 1
E	± 3	± 3 5/8	± 5/8	± 3/4
F	± 4 7/8	± 5 1/8	± 1 1/2	± 1 3/4
G	± 4 1/2	± 8 3/8	± 5/8	± 1 7/8
H	± 5 5/8	± 6 3/8	- 1 1/8	± 5 1/8

\*Variations are given in inches.

Variations from the Basic Pattern  
of Size 16 Patterns in Three Price Ranges

1. Low price. (6 brands)

The variations in the measurements of the two sizes 16 patterns in Brands A, B, C, D, F, and H which were selected from the lower price patterns of these companies are given in Table XXI.

On the blouse front the neck width was slightly greater in all brands except one style of Brand H and both patterns of Brand D. Pattern H1 was  $1\frac{1}{4}$  inches greater, and patterns D1 and D2 did not vary from the Basic pattern. The neck depth was greater in all patterns except A2, C1, and D2. A2 and C1 were  $\frac{1}{4}$  inch or more less than the Basic pattern while D2 did not vary. The neck curve was from  $\frac{1}{8}$  to  $\frac{15}{16}$  inch greater in all patterns except C1 which was  $\frac{1}{8}$  inch less. The neck curve depth was from  $\frac{1}{16}$  to  $\frac{5}{16}$  inch less in all patterns but A2, B1, and H2. A2 was  $\frac{1}{8}$  inch greater; B1 did not vary; and H2 was  $\frac{1}{16}$  inch greater.

Across the shoulder and shoulder seam on the blouse front were greater by  $\frac{1}{2}$  inch to slightly more than 1 inch. Across the chest was greater by  $\frac{1}{8}$  to  $\frac{9}{16}$  inch, and the bust width was greater by  $\frac{1}{8}$  to  $\frac{11}{16}$  inch in all patterns except C1. C1 did not vary. The upper bust width was slightly greater in Brands A, F, and H, did not vary in Brand B, and was less in Brands C and D. The waist width was less in Brand A, Brand H, and pattern B2 of Brand B. Pattern B1 was greater by more than 1 inch. Pattern C1 did not vary, and pattern C2 of Brand C, Brand D, and Brand F were greater.

In the armhole measurements, all brands had a greater armhole depth of approximately 1 inch and a lesser armhole width of from  $\frac{9}{16}$

inch to  $1 \frac{3}{16}$  inches. The armhole curve was from  $\frac{1}{8}$  to  $\frac{5}{8}$  inch greater except in pattern C1 which did not vary. The armhole curve depth was from  $\frac{1}{8}$  to  $\frac{9}{16}$  inch greater than the Basic pattern.

The center front length on the blouse front was greater in Brands B, C, D, and H. Brand A had a lesser variation in A1 and did not vary in A2. Brand F was greater in F1 but less in F2. The full length was greater in all brands with the exception of pattern C1 of Brand C which was slightly less. The slope of shoulder was greater in Brands A, B, and F. Brand C was slightly less in both patterns. Brand D was  $\frac{3}{4}$  inch less in D1 and 2 inches greater in D2, and Brand H was approximately  $\frac{1}{2}$  inch greater in H1 and less by approximately the same amount in H2. In the drop of the shoulder, all variations were greater except those of Brand A. A1 did not vary and A2 was slightly less. The full side length was greater by  $3 \frac{11}{16}$  to more than 4 inches in all brands. C1 was the only pattern in which the shoulder to waist was not greater. The underarm length was less by  $\frac{11}{16}$  to more than 1 inch in all brands.

The waist dart on the blouse front was  $1 \frac{1}{2}$  to 9 degrees less than the Basic pattern on all patterns in the low price group except A2 which was  $1 \frac{1}{2}$  degrees greater, and H2 which was  $6 \frac{1}{2}$  degrees greater.

On the blouse back, the neck width and depth were less in all the low price patterns except A2. The neck width of A2 was slightly greater and the neck depth did not vary. The neck curve was less in all patterns in this group except F1. In all brands the neck curve depth was slightly less.

Across the shoulder on the blouse back varied from  $\frac{1}{8}$  to more

than 1 inch greater than the Basic pattern in all brands. Brand D had the greatest variation and Brand F had the second greatest variation. The shoulder seam was from  $1/2$  to more than 1 inch greater than the Basic pattern. Brand F had the greatest variation and Brand D had the second greatest variation. The shoulder draft width varied from  $1/16$  inch greater in Brand C to  $1\ 1/2$  inches greater in A1 of Brand A. The across the chest measurement was greater in Brands A, B, D, F, and pattern H2 of Brand H. H1 had no variation and Brand C was slightly less by the same amount in each pattern. The bust width was less in all patterns in five of the brands and H1 of the sixth brand. H2 had no variation in this measurement. The upper bust width and waist width were less in all brands.

The armhole depth on the blouse back was greater by  $3/8$  inch to  $1\ 1/4$  inches, but the armhole width was less by  $1/8$  inch to  $1\ 1/4$  inches. Brand B had more than 1 inch variation in the armhole depth and width. Brand D had a  $1\ 3/8$  inches greater variation in the armhole depth and Brand F had a  $1\ 1/4$  inches lesser variation in the armhole width. The armhole curve was greater in all patterns in the low price group except C1 which did not vary, and F1 which was  $1/4$  inch less. The armhole curve depth was greater in Brands D, F, H, and A2 of Brand A. Brand B and C2 of Brand C did not vary. A1 of Brand A was  $1/4$  inch less and C1 of Brand C was  $1/8$  inch less.

In the center back length measurement of the blouse back, style C1 of Brand C was slightly less, and H1 of Brand H did not vary. All other patterns in this low price group had a greater variation than the Basic pattern. The slope of shoulder varied from  $1/2$  inch less to  $2\ 7/16$  inches greater than the Basic pattern. All brands were greater but Brand

C. The six brands in this group had a lesser drop of shoulder than the Basic pattern. The full length and full side length were less in Brand C, F2 of Brand F, and Brand H. Brand A, B2 of Brand B, Brand D, and F1 of Brand F had greater variations in the same length measurements. Brand B had a greater full side length variation on B1 but a less full length variation.

Only four of the patterns in this group had a shoulder dart. Three of these had a greater variation. The waist dart had the greatest variation in Brand D. Patterns B2 and H1 did not vary. Pattern C1 was the only pattern with a lesser waist dart.

In the sleeve measurements of patterns in the low price group, the bicep width was less in all brands except Brand D. The sleeve cap height was greater than the Basic pattern in all brands. The cap curve was less in Brand C, B2 of Brand B, and H1 of Brand H. The overarm length measurement was made on Brands A, D, F, H, and B2 of Brand B. This measurement in Brands F, H, pattern A1 of Brand A, and B2 of Brand B were less than the Basic pattern. Both patterns measured in Brand D and A1 of Brand A were greater. The overarm to elbow length was greater in the nine patterns that were measured. The underarm length and elbow girth measurements were made in nine patterns and the entire group was less than the Basic pattern. The underarm length from bicep to elbow was approximately 1 inch less in A2, did not vary in H1, and was greater in A1, B2, Brand D, Brand F, and H2. The wrist girth measurement was made in Brands D, F, H, and pattern B2 of Brand B. This measurement was greater by  $1/8$  inch to  $1\ 7/16$  inches. Brand D had more than a  $3/4$  inch variation, and Brand H had approximately a  $1\ 3/8$  inches variation.

The following general likenesses and differences in the variations

of the measurements of the patterns of the six brands included in the low price group were noted. In general, the neck width and depth were greater on the blouse front and less on the blouse back. Though the neck curve was greater on the blouse front of all patterns except C1 and less on the blouse back of all patterns, the total neck curve was greater in Brand A, Brand F, and Brand H, and less in Brands B, C, and D. Across the shoulder and shoulder seam measurements were greater on the blouse back and front in all brands. The total across chest measurement was greater in all brands. Though the blouse front had a greater variation and the blouse back had a lesser variation, the total bust measurement was less than the Basic pattern in Brands B, C, and pattern F1 of Brand F. The total upper bust width was less in all patterns except A1 which had no variation. The total waist width was less than the Basic pattern in Brand A, pattern B2, Brand C, Brand D, and Brand H. The center front and back lengths were greater than the Basic pattern in the majority of the patterns. Exceptions were the center front length of A1 and F2 and the center back length of C1 and H1. The full length was less on the blouse back of B1, both Brand C patterns, F2 and both Brand H patterns. On the blouse front, the full length was less only in the case of C1. The full side length was approximately 4 inches greater in all brands on the blouse front, but on the back was slightly greater in Brand A, Brand B, Brand D, and F1 of Brand F. The underarm length of the blouse front and back was less than the Basic pattern in all brands. On the blouse back, the waist dart was generally larger but on the blouse front the waist dart was generally smaller.

A COMPARISON OF THE  
OF SIZE 16 PAT

Number	Name of Measurement	Brand A		Brand	
		1	2	1	
1.	Center front length	- .0625	.0000	+ .5625	+
2.	Neck width	+ .1250	+ .6875	+ .2500	+
3.	Neck depth	+ .4375	- .2500	+ .1250	+
4.	Across shoulder	+ 1.0000	+ .9375	+ .7500	+
5.	Slope of shoulder	+ .6250	+ .5625	+ .8750	+
6.	Drop of shoulder	.0000	- .1250	+ .0625	+
7.	Shoulder seam	+ .8125	+ .8125	+ .5625	+
8.	Across chest	+ .5625	+ .6250	+ .1250	+
9.	Bust width	+ .6875	+ .3750	+ .3750	+
10.	Upper bust width	+ .3750	+ .0625	.0000	
11.	Full side length	+ 4.6250	+ .4375	+ 4.6250	+
12.	Underarm length	- .6250	- .6250	- .7500	-
13.	Waist width	- .0625	- .2500	+ 1.0625	-
14.	Armhole curve	+ .5000	+ .1875	+ .6250	+
15.	Height of bust	+ .0625	.0000	+ .2500	+
16.	Armhole curve depth	+ .1875	+ .1250	+ .3750	+
17.	Neck curve depth	- .1875	+ .1250	.0000	-
18.	Bust point width	+ .2500	+ .6875	- .2500	-
19.	Full length	+ .3750	+ .3125	+ .7500	+
20.	Neck curve	+ .7500	+ .3125	+ .4375	+
21.	Dart point to bust point	+ .1875	--**	--	+
22.	Armhole depth	+ 1.3125	+ 1.0625	+ 1.2500	+
23.	Armhole width	- .6250	- .6875	- .7500	-
24.	Shoulder to waist	+ .5625	+ .5625	+ .7500	+
25.	Waist dart	- 1.5°	+ 1.5°	- 9.0°	-

\*Variations are given in inches except for variations 25, 47

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XXI

OF THE VARIATIONS IN THE MEASUREMENTS  
16 PATTERNS IN THE LOW PRICE GROUP

Blouse Front

		Variations*							
Brand B		Brand C		Brand D		Brand F			
2		1		2		1		2	
25	+ .1250	+ .1250	+ .0625	+ .2500	+ .3750	+ .1250	- .1250		
500	+ .2500	+ .0625	+ .1875	.0000	.0000	+ .1875	+ .1250		
250	+ .1250	- .3125	+ .1250	+ .2500	.0000	+ .8125	+ .7500		
600	+ .6875	+ .5000	+ .6250	+ .8750	+ .8125	+ 1.0625	+ 1.0000		
750	+ .3750	- .1250	- .0625	- .7500	+ 2.0000	+ .5000	+ .3125		
625	+ .1250	+ .2500	+ .6250	+ .5000	+ .0625	+ .7500	+ .7500		
625	+ .6250	+ .6250	+ .7500	+ 1.0625	+ .8750	+ 1.1250	+ 1.0625		
250	+ .2500	+ .1250	+ .1250	+ .1875	+ .2500	+ .4375	+ .3750		
750	+ .3125	.0000	+ .0625	+ .0625	+ .3125	+ .4375	+ .4375		
000	.0000	- .2500	- .1250	- .1875	- .0625	+ .1250	+ .3125		
250	+ 4.1875	+ 3.8750	+ 4.0000	+ 4.2500	+ 4.1250	+ 4.1875	+ 4.4375		
000	- 1.0000	- .8750	- .8750	- .9375	- 1.1875	- .1875	- .6875		
625	- .1875	.0000	+ .0625	+ .0625	+ .1875	+ .3750	+ .2500		
250	+ .3750	.0000	+ .1875	+ .1250	+ .2500	+ .3125	+ .3750		
000	+ .0625	+ .0625	.0000	+ .1250	+ .1875	+ .0625	- .0625		
750	+ .2500	+ .1250	+ .1250	+ .3750	+ .5625	+ .4375	+ .3125		
000	- .2500	- .0625	- .0625	- .3125	- .0625	- .2500	- .2500		
000	- .5625	+ .0625	- .1875	- .3125	- .3125	- .1875	+ .2500		
000	+ .1875	- .1250	+ .2500	+ .4375	+ .3125	+ .9375	+ .6250		
75	+ .4375	- .1250	+ .1875	+ .3750	+ .1250	+ .9375	+ .8750		
	+ .6875	+ .9375	+ .9375	+ .6875	+ .6875	- .0625	--		
000	+ 1.3125	+ .8750	+ 1.0000	+ 1.1875	+ 1.1875	+ 1.1875	+ 1.1875		
000	- .7500	- 1.0000	- 1.0000	- 1.1875	- .9375	- .9375	- .8125		
000	+ .1875	- .1250	+ .3125	+ .5625	+ .5000	+ 1.0625	+ .8750		
	- 4.0°	- 7.0°	- 8.0°	- 6.5°	- 2.5°	- 6.5°	- 8.5°		

25, 47, 48, and 49, which are given in degrees.

rn.



MENTS  
UP

ions*		Brand D		Brand F		Brand H						
2	1	2	1	2	1	2						
.0625	+	.2500	+	.3750	+	.1250	-	.1250	+	.3750	+	.1250
.1875		.0000		.0000	+	.1875	+	.1250	+	1.2500	+	.3125
.1250	+	.2500		.0000	+	.8125	+	.7500	+	.3125	+	.5000
.6250	+	.8750	+	.8125	+	1.0625	+	1.0000	+	.6875	+	.8125
.0625	-	.7500	+	2.0000	+	.5000	+	.3125	+	.4375	-	.5625
.6250	+	.5000	+	.0625	+	.7500	+	.7500	+	.4375	+	.4375
.7500	+	1.0625	+	.8750	+	1.1250	+	1.0625	+	.6250	+	.6875
.1250	+	.1875	+	.2500	+	.4375	+	.3750	+	.2500	+	.3125
.0625	+	.0625	+	.3125	+	.4375	+	.4375	+	.5000	+	.6875
.1250	-	.1875	-	.0625	+	.1250	+	.3125	+	.1875	+	.1250
0000	+	4.2500	+	4.1250	+	4.1875	+	4.4375	+	4.2500	+	3.6875
.8750	-	.9375	-	1.1875	-	.1875	-	.6875	-	.6875	-	1.4375
.0625	+	.0625	+	.1875	+	.3750	+	.2500	-	.1875	-	.4375
.1875	+	.1250	+	.2500	+	.3125	+	.3750	+	.3125	+	.3125
0000	+	.1250	+	.1875	+	.0625	-	.0625	+	.1875	+	.0625
.1250	+	.3750	+	.5625	+	.4375	+	.3125	+	.2500	+	.5625
.0625	-	.3125	-	.0625	-	.2500	-	.2500	-	.1875	+	.0625
.1875	-	.3125	-	.3125	-	.1875	+	.2500	-	.0625	+	.5000
.2500	+	.4375	+	.3125	+	.9375	+	.6250	+	.6875	+	.6250
.1875	+	.3750	+	.1250	+	.9375	+	.8750	+	.5625	+	.6250
.9375	+	.6875	+	.6875	-	.0625	--	--	+	1.1250	--	--
0000	+	1.1875	+	1.1875	+	1.1875	+	1.1875	+	.8750	+	1.0625
0000	-	1.1875	-	.9375	-	.9375	-	.8125	-	.5625	-	.8125
.3125	+	.5625	+	.5000	+	1.0625	+	.8750	+	.8125	+	.8750
0°	-	6.5°	-	2.5°	-	6.5°	-	8.5°	-	2.5°	+	6.5°

en in degrees.

TABLE XX

A COMPARISON OF THE VALUES  
OF SIZE 16 PATTERNS

Bl

Number	Name of Measurement	Brand A		Brand B	
		1	2	1	2
26.	Center back length	+ .1875	+ .5625	+ .4375	+
27.	Neck width	- .5625	+ .0625	- .4375	-
28.	Neck depth	- .1875	.0000	- .3125	-
29.	Across shoulder	+ .4375	+ .3750	+ .2500	+
30.	Slope of shoulder	+ 1.3125	+ 2.4375	+ .2500	+
31.	Drop of shoulder	- .6875	- .0625	- .4375	-
32.	Shoulder seam	+ .6875	+ .5625	+ .5000	+
33.	Shoulder draft width	+ 1.5000	+ .2500	+ .3125	+
34.	Across chest	+ .2500	+ .1250	+ .1250	+
35.	Bust width	- .3125	- .1250	- .5625	-
36.	Upper bust width	- .3750	- .1875	- .8750	-
37.	Full side length	+ .1875	+ .4375	+ .1875	+
38.	Underarm length	- .5625	- .5000	- .6875	-
39.	Waist width	- .6250	- .3125	- .6250	-
40.	Armhole curve	+ .5625	+ .5625	+ .2500	+
41.	Full length	+ .0625	+ .5625	- .1250	+
42.	Neck curve	- .3750	- .1875	- .5625	-
43.	Neck curve depth	- .1250	- .1250	- .1875	-
44.	Armhole curve depth	- .2500	+ .1250	.0000	
45.	Armhole depth	+ .8750	+ .9375	+ 1.0000	+ 1
46.	Armhole width	- .9375	- .5000	- 1.1875	- 1
47.	Shoulder dart	- .5°	--**	+ .5°	+ 4
48.	Neck dart	--**	--	--	
49.	Waist dart	+ 1.5°	+ 5.5°	+ 1.5°	

TABLE XXI (Continued)

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN LOW PRICE GROUP

Blouse Back

Brand A		Brand B		Brand C		Brand D	
1	2	1	2	1	2	1	2
.1875	+ .5625	+ .4375	+ .5625	- .1875	+ .0625	+ .6875	+ .6875
.5625	+ .0625	- .4375	- .5625	- .1875	- .3750	- .3125	- .3125
.1875	.0000	- .3125	- .3750	- .1875	- .2500	- .3125	- .2500
.4375	+ .3750	+ .2500	+ .1250	+ .5000	+ .4375	+ 1.3125	+ .9375
.3125	+ 2.4375	+ .2500	+ .3125	- .5000	- .2500	+ 2.8125	+ .5000
.6875	- .0625	- .4375	- .4375	- .0625	- .2500	+ .0625	- .3125
.6875	+ .5625	+ .5000	+ .4375	+ .5625	+ .6875	+ .9375	+ 1.0000
.5000	+ .2500	+ .3125	+ .3750	+ .0625	+ .0625	+ .8750	+ .5000
.2500	+ .1250	+ .1250	+ .1250	- .0625	- .0625	+ .5625	+ .3125
.3125	- .1250	- .5625	- .5000	- .6875	- .6250	- .0625	+ .0625
.3750	- .1875	- .8750	- .6875	- 1.0625	- .8750	- .4375	+ .3125
.1875	+ .4375	+ .1875	+ .2500	- .3125	- .0625	+ .6250	+ .4375
.5625	- .5000	- .6875	- .8125	- .8125	- .8125	- .7500	- 1.0625
.6250	- .3125	- .6250	- .5000	- .7500	- .6875	- .2500	- .3125
.5625	+ .5625	+ .2500	+ .5625	.0000	+ .1875	+ .6875	+ .9375
.0625	+ .5625	- .1250	+ .1875	- .3750	- .1875	+ .4375	+ .4375
.3750	- .1875	- .5625	- .7500	- .2500	- .5000	- .4375	- .4375
.1250	- .1250	- .1875	- .1250	- .0625	- .0625	- .3125	- .0625
.2500	+ .1250	.0000	.0000	- .1250	.0000	+ .0625	+ .1875
.8750	+ .9375	+ 1.0000	+ 1.1250	+ .6875	+ .8125	+ 1.3750	+ 1.3750
.9375	- .5000	- 1.1875	- 1.1875	- .1250	- .9375	- 1.1250	- .7500
.5°	--**	+ .5°	+ 4.0°	--	--	+ .5°	--
--**	--	--	--	--	--	--	--
.5°	+ 5.5°	+ 1.5°	.0°	- 1.5°	+ .5°	+ 3.0°	+ 4.5°

MEASUREMENTS  
UP

Variations*														
Brand C		Brand D		Brand F		Brand H								
	2	1	2	1	2	1	2							
5	+	.0625	+	.6875	+	.6875	+	.7500	+	.1875	-	.0000	+	.0625
5	-	.3750	-	.3125	-	.3125	-	.4375	-	.5000	-	.3125	-	.1250
5	-	.2500	-	.3125	-	.2500	-	.4375	-	.3750	-	.2500	-	.1875
0	+	.4375	+	1.3125	+	.9375	+	.8125	+	.9375	+	.6250	+	.8125
0	-	.2500	+	2.8125	+	.5000	+	.4375	+	.2500	+	1.3750	+	.5625
5	-	.2500	+	.0625	-	.3125	-	.4375	-	.4375	-	.4375	-	.4375
5	+	.6875	+	.9375	+	1.0000	+	1.0625	+	1.1875	+	.6875	+	.7500
5	+	.0625	+	.8750	+	.5000	+	.4375	+	.5000	+	.2500	+	.4375
5	-	.0625	+	.5625	+	.3125	+	.1250	+	.2500	-	.0000	+	.1250
5	-	.6250	-	.0625	+	.0625	-	.5000	-	.3750	-	.1875	-	.0000
5	-	.8750	-	.4375	-	.3125	-	.7500	-	.8125	-	1.0000	-	.2500
5	-	.0625	+	.6250	+	.4375	+	.4375	-	.1250	-	.2500	-	.1250
5	-	.8125	-	.7500	-	1.0625	-	.1875	-	.6875	-	.6875	-	.6250
0	-	.6875	-	.2500	-	.3125	-	.1250	-	.1250	-	.3125	-	.1875
0	+	.1875	+	.6875	+	.9375	-	.2500	+	.2500	+	.0625	+	.2500
0	-	.1875	+	.4375	+	.4375	+	.3125	-	.1250	-	.2500	-	.1875
0	-	.5000	-	.4375	-	.4375	+	.3750	-	.7500	-	.3750	-	.2500
5	-	.0625	-	.3125	-	.0625	-	.1250	-	.0625	-	.0625	-	.0625
0		.0000	+	.0625	+	.1875	+	.1250	+	.1250	+	.0625	+	.0625
5	+	.8125	+	1.3750	+	1.3750	+	.4375	+	.5000	+	.5000	+	.3750
0	-	.9375	-	1.1250	-	.7500	-	1.2500	-	1.2500	-	.7500	-	.8125
	--		+	.5°	--	--	--	--	--	--	--	--	--	--
	--		--	--	--	--	--	--	--	--	--	--	--	--
	+	.5°	+	3.0°	+	4.5°	+	2.5°	+	4.5°		.0°	+	6.5°

A COMPARISON OF THE VARIATION  
OF SIZE 16 PATTERNS

Number	Name of Measurement	Brand A		Brand B	
		1	2	1	2
50.	Bicep	- .2500	- .1250	- .2500	-
51.	Overarm length	+ .4375	- 3.5625	---**	-
52.	Sleeve cap height	+ .3750	+ .3125	+ .7500	+
53.	Overarm to elbow	+ .9375	+ .6875	---**	+
54.	Underarm length	- .3750	- .3125	---**	-
55.	Underarm length from bicep to elbow	+ .6250	- .9375	---**	+
56.	Elbow girth	- .6250	---**	--	-
57.	Wrist girth	---**	--	--	+
58.	Cap curve	+ .2500	+ .1250	+ .3750	-

TABLE XXI (Continued)

COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE LOW PRICE GROUP

Sleeve

		Variations*							
		Brand B		Brand C		Brand D		Brand F	
		1	2	1	2	1	2	1	
0	-	.2500	-.3750	-.5000	-.2500	+.3750	+.0625	-.1250	-
5	--**	-.4375	-.4375	--	--	+.1875	+.0625	-.3125	-
5	+	.7500	+.4375	+.6250	+.3750	+.6250	+.5000	+.5625	+
5	--**	+.6250	--	--	--	+.9375	+.7500	+.6875	+
5	--**	-1.5000	--	--	--	-.3750	-.4375	-.8750	-
5	--**	+.2500	--	--	--	+.3750	+.3750	+.1875	+
*	--	-1.7500	--	--	--	-.7500	-.8125	-1.6875	- 1
	--	+.5000	--	--	--	+.8125	+.8125	+.1250	+
0	+	.3750	-.3125	-.4375	-.1875	+.5625	+.2500	+.6250	+

The variation in the ... of the ... is ...  
 In the ...

s*	Brand D		Brand F		Brand H	
	1	2	1	2	1	2
	00	+ .3750	+ .0625	- .1250	- .1250	- .6250
	+ .1875	+ .0625	- .3125	- .5625	- .8750	- .0625
50	+ .6250	+ .5000	+ .5625	+ .5000	+ .4375	+ .7500
	+ .9375	+ .7500	+ .6875	+ .5000	+ .3125	+ .8750
	- .3750	- .4375	- .8750	- .8750	- 1.3125	- .6875
	+ .3750	+ .3750	+ .1875	+ .1250	.0000	+ .2500
	- .7500	- .8125	- 1.6875	- 1.7500	- 1.6250	- 1.5000
	+ .8125	+ .8125	+ .1250	+ .5625	+ 1.4375	+ 1.3750
75	+ .5625	+ .2500	+ .6250	+ .5625	- .2500	+ .3125

... and Brand F ... The ...  
 ... in the first ...  
 ... by approximately 1/4 ...  
 ... Brand D ... Brand C ...  
 ... Brand H ...  
 ... Brand D ...  
 ... Brand H ...  
 ... Brand D ...  
 ... Brand H ...

The ... of the first ...  
 ... Brand D ...

## 2. Medium price. (4 brands)

The variations in the measurements of the two size 16 patterns in Brands A, B, C, and H which were selected from the medium price patterns of these companies are given in Table XXII.

On the blouse front the neck width was slightly greater than the Basic pattern in all brands except Brand A. The neck depth was greater on all patterns except A3 of Brand A and C4 of Brand C. Brands B and H had the greatest variation in neck width, and Brand A had the greatest variation in neck depth. The neck curve measurement varied from  $1/4$  to 1 inch greater with the exception of C3 which had a  $5/16$  inch lesser variation. In the neck curve depth measurement, H2 did not vary but the other patterns varied slightly less than the Basic pattern.

Across the shoulder on the blouse front was approximately  $1/2$  inch to  $1\ 3/4$  inches greater in all brands. Brand C had the least variation and Brand H had the greatest variation. The shoulder seam was greater by approximately  $1/2$  to 1 inch in the four brands in the medium price group. Across the chest was greater by approximately  $1/2$  inch in Brand A,  $3/8$  inch in Brand B, and  $3/16$  inch in Brand H. Brand C had a  $3/16$  inch less measurement across the shoulder. The bust width was slightly greater in Brand C, approximately  $3/8$  inch greater in Brand B,  $1/2$  inch greater in Brand H, and  $3/4$  inch greater in Brand A. The upper bust width was slightly greater in all but Brand C. The waist width was less than the Basic pattern in A4, B4, and both Brand H patterns. There was no variation in the waist measurement of A3 and the two patterns of Brand C, and a slightly greater variation in B3.

The armhole width of the blouse front of the four brands was less than the Basic pattern. Brand C had the greatest variation and Brand A



had the least variation. In the armhole depth measurement, the majority of the patterns were more than 1 inch greater than the Basic pattern. Brand B had a constant variation of  $1 \frac{5}{16}$  inches in the two patterns. The armhole curve was from  $\frac{1}{4}$  inch to  $\frac{11}{16}$  inch greater in all brands, and the armhole curve depth was  $\frac{1}{4}$  inch greater in the majority of the patterns.

In the blouse front length measurements, the center front length was greater in Brand C and Brand H. Patterns A4 and B3 did not vary in the center front length measurement, but A3 and B4 were approximately  $\frac{1}{4}$  inch less than the Basic pattern. The full length was greater in all the patterns of the four brands but B4. The full length measurement was less in this pattern. Brand H was the only brand in which the slope of shoulder was not greater. Brand A had the greatest variation of approximately  $\frac{3}{4}$  inch in the slope of shoulder. The drop of shoulder was slightly greater in Brands A, B, and C, but in Brand H where the slope of shoulder was less, the drop of the shoulder had the greatest variation. The full side length was more than 4 inches greater and the underarm length was less by approximately  $\frac{3}{4}$  inch in all brands. The shoulder to waist measurement was greater in all brands than the Basic pattern. The least variation was  $\frac{3}{16}$  inch and the greatest variation was  $1 \frac{1}{8}$  inch.

The waist dart on the blouse front was 2 to  $17 \frac{1}{2}$  degrees less on all patterns except A3 and A4. These were 5 degrees greater than the Basic pattern in each pattern.

On the blouse back, the neck width was less in all brands except Brand C. The neck depth was less in all patterns except A4 which had no variation. The neck curve was less in all patterns except C4 which had

no variation. The patterns of Brand H had the smallest variation while Brand A had the greatest variation in the neck curve. There was no variation in the neck curve depth of B3 and C3 but the other patterns were approximately  $3/16$  inch less.

Across the shoulder on the blouse back was greater by  $1/4$  to  $11/16$  inch in the four brands. The shoulder seam was greater by  $5/16$  inch in Brand B,  $7/16$  inch in Brand C,  $11/16$  inch in Brand H, and approximately  $3/4$  inch in Brand A. The shoulder draft width measurement was greater in all patterns but A4 and B4. A4 had no variation and B4 varied  $1/8$  inch less. Across the chest was slightly greater in all patterns except A4. H4 of Brand H had no variation in bust width but all the other patterns had a lesser bust width in the blouse back. Brand B and Brand C had the greatest variations. The upper bust width was less than the Basic pattern by a greater amount in Brands B and C. The waist width was from  $3/16$  inch to  $1\ 9/16$  inches less than the Basic pattern.

In Brands B and C, the armhole depth was approximately 1 inch greater and the width was approximately 1 inch less than the corresponding measurements on the blouse back of the Basic pattern. Though all armhole depth measurements were greater and the armhole width measurements were less, there was a variation of  $1/4$  to  $1\ 1/4$  inches in the armhole depth and  $5/8$  inch to  $1\ 3/16$  inches in the armhole width of Brands A and H. The armhole curve was from  $1/16$  inch greater in Brand H to  $3/4$  inch greater in A4 of Brand A. The armhole curve depth was less in Brand C, pattern H3 and A3, did not vary in B4 and H4, and was greater in patterns A4 and B3.

The length measurements of the blouse back were less than  $1/2$  inch greater in all brands but Brand C. The full length was less in

Brands C and H and pattern B3 of Brand B. Brand A and pattern B3 were greater than the Basic pattern. The slope of shoulder varied from  $1/8$  inch less to approximately 2 inches greater. Brand A had greater variations in each pattern. Brand B was  $1/8$  inch less on B3 and  $5/16$  inch greater on B4. Brand C had no variation on C3 and a  $1\ 1/2$  inches greater variation on C4. Brand H had a  $1/8$  inch lesser variation and H4 had approximately a 2 inches greater variation. The drop of the shoulder measurement was less than the Basic pattern in all brands. The full side length was greater in Brands A, B, and C, but less in Brand H. The underarm length was approximately  $1/2$  inch less than the Basic pattern.

Only three patterns had shoulder darts on the blouse back. A3 was  $1/2$  degree greater; B3 was  $1/2$  degree less; and B4 did not vary. The waist dart varied from  $1\ 1/2$  degrees less to  $8\ 1/2$  degrees greater. B3 and C4 did not vary. H3 was the only pattern with a waist dart that was less than the Basic pattern.

While the bicep measurement on the four brands was less, the sleeve cap height was greater. The cap curve was greater by approximately  $3/8$  inch in Brand A, Brand C, and pattern B4 of Brand B. Brand H and pattern B3 had a lesser cap curve than the Basic pattern. In the six patterns where the elbow and wrist girths were measured, the elbow girth was less by approximately 1 inch and the wrist girth was greater by  $1/4$  inch to  $1\ 7/16$  inches. The overarm length was greater on Brand A and B4 and less on C3 and Brand H. The overarm to elbow was greater by approximately 1 inch on the patterns measured, except those of Brand H which were  $3/8$  inch greater. All brands had lesser underarm length measurements, but Brand H had the greatest variation of  $1\ 1/4$  inches.

The underarm length from bicep to elbow was slightly greater in Brand A, patterns B4, and C3. There was no variation in this measurement on Brand H.

The following general likenesses and differences in the variations of the measurements of the patterns of the four brands included in the medium price group were noted. The neck width on the blouse front and back was less than the Basic pattern in Brand A, greater in Brands C and D, and greater on the blouse front and less on the blouse back of Brand B. The neck depth of Brand B, Brand H, and pattern C3 of Brand C was greater on the blouse front and less on the blouse back. Patterns A3 and C4 were less on the blouse front and back. Pattern A4 was greater on the blouse front but did not vary on the blouse back. Though the neck curve was less on the blouse back and greater on the blouse front, the total neck curve was less in all patterns in the medium price group except C3, H3, and H4. The neck curve depth was less on the blouse front and back. Across the shoulder and shoulder seam widths were greater than the Basic pattern on the blouse front and back of all brands. The total across chest measurement was greater on the blouse front and back on Brands A, B, and H. The total chest width of Brand C had a slightly less variation on C1 and did not vary on C2. Though the amount of variation in the bust width was less on the blouse back and greater on the blouse front, the variation in Brands A and H was greater than the Basic pattern, and the variation in Brands B and C was less than the Basic pattern. The total upper bust and waist widths were less in all brands. The armhole depth was greater while the armhole width was less on the blouse front and back. The total armhole curve of the blouse front and back was greater. The center front length was greater on

Brands C and H while the center back length was greater on all brands. The full length was greater on the blouse front except on B4. On the blouse back the full length was less on Brands C, Brand H, and pattern B3 of Brand B. While the drop of shoulder was less on the blouse back and greater on the blouse front, the slope of shoulder was greater on the blouse front in all brands except Brand H and greater on the blouse back in the majority of the patterns. On the blouse front, the full side length was more than 4 inches greater on most patterns. On the blouse back the full side length was slightly greater in all brands but Brand H, and the underarm length was less by 1/2 inch or more in all brands. While the majority of the waist darts on the blouse front were less than the Basic pattern, those on the blouse back were greater.

TABLE XXII

A COMPARISON OF THE VARIATIONS  
OF SIZE 16 PATTERNS IN THE M

Blouse Front

Number	Name of Measurement	Brand A		
		3	4	3
1.	Center front length	- .1875	.0000	.0000
2.	Neck width	- .2500	- .0625	+ .3750
3.	Neck depth	- .9375	+ .7500	+ .0625
4.	Across shoulder	+ .7500	+ .9375	+ .7500
5.	Slope of shoulder	+ .8125	+ .6250	+ .3750
6.	Drop of shoulder	+ .1250	+ .4375	+ .1250
7.	Shoulder seam	+ .8125	+ 1.0625	+ .4375
8.	Across chest	+ .5625	+ .5000	+ .4375
9.	Bust width	+ .8125	+ .6250	+ .3125
10.	Upper bust width	+ .2500	+ .3125	+ .0625
11.	Full side length	+ 4.3750	+ 4.5625	+ 4.5000
12.	Underarm length	- .6250	- .7500	- .8125
13.	Waist width	.0000	- .0625	+ .0625
14.	Armhole curve	+ .4375	+ .6875	+ .2500
15.	Height of bust	- .1250	.0000	- .0625
16.	Armhole curve depth	+ .1875	+ .1250	+ .2500
17.	Neck curve depth	- .0625	- .0625	- .1250
18.	Bust point width	- .0625	- .8125	+ .0625
19.	Full length	+ .8125	+ .7500	+ .0625
20.	Neck curve	+ .6250	+ .3125	+ .4375
21.	Dart point to bust point	+ .5000	--**	--
22.	Armhole depth	+ .8750	+ 1.3750	+ 1.3125
23.	Armhole width	- .3125	- .5625	- .7500
24.	Shoulder to waist	+ 1.1250	+ .8125	+ .1875
25.	Waist dart	+ 5.0°	- 2.0°	- 8.0°

\*Variations are given in inches except for variations 25, 47,

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XXII

COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE MEDIUM PRICE GROUP

Blouse Front

Brand A	Variations*							
	Brand B		Brand C		Brand H			
4	3	4	3	4	3	4	3	4
.0000	.0000	-.2500	+.1250	+.1250	+.5000	+.4375		
-.0625	+.3750	+.2500	+.1250	+.1250	+.3125	+.2500		
+.7500	+.0625	+.1875	+.1250	-.3125	+.1875	+.6875		
+.9375	+.7500	+.8125	+.5625	+.5625	+1.8125	+.7500		
+.6250	+.3750	+.1875	+.1875	+.5625	-.5625	-.6250		
+.4375	+.1250	+.0625	+.3125	+.4375	+.4375	+.4375		
+1.0625	+.4375	+1.0000	+.6250	+.6250	+.6875	+.6250		
+.5000	+.4375	+.2500	-.1875	-.1875	+.1875	+.1875		
+.6250	+.3125	+.4375	+.0625	+.0625	+.6250	+.5000		
+.3125	+.0625	+.1250	-.2500	-.1875	+.1875	+.1875		
+4.5625	+4.5000	+4.4375	+4.3750	+4.5000	+3.5625	+4.1250		
-.7500	-.8125	-.8750	-.7500	-.7500	-1.6875	-.7500		
-.0625	+.0625	-.2500	.0000	.0000	-.4375	-.4375		
+.6875	+.2500	+.5625	+.4375	+.6250	+.3750	+.1875		
.0000	-.0625	-.1250	+.0625	+.0625	+.2500	+.1875		
+.1250	+.2500	+.2500	+.2500	+.2500	+.5625	+.2500		
-.0625	-.1250	-.1250	-.1875	-.0625	-.1875	.0000		
-.8125	+.0625	-.1875	+.2500	-.1250	-.1875	-.5625		
+.7500	+.0625	-.0625	+.2500	+.4375	+.6875	+.6250		
+.3125	+.4375	+.4375	-.3125	+.2500	+.4375	+1.0000		
--**	--	--	--	+1.0000	+1.4375	--		
+1.3750	+1.3125	+1.3125	+1.0000	+1.1250	+1.0625	+.8125		
-.5625	-.7500	-.6875	-.9375	-.8125	-.7500	-.6875		
+.8125	+.1875	+.2500	+.6875	+.5000	+.8125	+.4375		
-2.0°	-8.0°	-2.5°	-9.0°	-3.5°	+5.0°	-17.5°		

except for variations 25, 47, 48, and 49, which are given in degrees.

than the basic pattern.

than the basic pattern.

pattern.

TABLE XXII

A COMPARISON OF THE VARIATION  
OF SIZE 16 PATTERNS INBlouse

Number	Name of Measurement	Brand A		
		3	4	3
26.	Center back length	+ .3750	+ .5000	+ .1250
27.	Neck width	- .5625	- .6875	- .3750
28.	Neck depth	- .3125	.0000	- .1875
29.	Across shoulder	+ .3750	+ .3125	+ .1250
30.	Slope of shoulder	+ .1250	+ .8750	- .1250
31.	Drop of shoulder	- .2500	- .4375	- .4375
32.	Shoulder seam	+ .7500	+ .8125	+ .3125
33.	Shoulder draft width	+ .4375	.0000	+ .1875
34.	Across chest	+ .3750	- .0625	+ .0625
35.	Bust width	- .1875	- .1250	- .6875
36.	Upper bust width	- .2500	- .5625	- .9375
37.	Full side length	+ .1250	+ .7500	+ .3750
38.	Underarm length	- .5000	- .6875	- .7500
39.	Waist width	- .5000	- 1.5625	- .6250
40.	Armhole curve	+ .3750	+ .7500	+ .3125
41.	Full length	+ .0625	+ .4375	- .0625
42.	Neck curve	- .6875	- .6250	- .4375
43.	Neck curve depth	- .1250	- .1875	.0000
44.	Armhole curve depth	- .2500	+ .1875	+ .0625
45.	Armhole depth	+ .7500	+ 1.2500	+ 1.1250
46.	Armhole width	- .8750	- .6250	- 1.1875
47.	Shoulder dart	+ .5°	--**	- .5°
48.	Neck dart	--**	--	--
49.	Waist dart	+ 1.5°	+ 8.5°	.0°



TABLE XXII

A COMPARISON OF THE VARIATION  
OF SIZE 16 PATTERNS INBlouse

Number	Name of Measurement	Brand A			Brand B
		3	4	3	
26.	Center back length	+ .3750	+ .5000	+ .1250	
27.	Neck width	- .5625	- .6875	- .3750	
28.	Neck depth	- .3125	.0000	- .1875	
29.	Across shoulder	+ .3750	+ .3125	+ .1250	
30.	Slope of shoulder	+ .1250	+ .8750	- .1250	
31.	Drop of shoulder	- .2500	- .4375	- .4375	
32.	Shoulder seam	+ .7500	+ .8125	+ .3125	
33.	Shoulder draft width	+ .4375	.0000	+ .1875	
34.	Across chest	+ .3750	- .0625	+ .0625	
35.	Bust width	- .1875	- .1250	- .6875	
36.	Upper bust width	- .2500	- .5625	- .9375	
37.	Full side length	+ .1250	+ .7500	+ .3750	
38.	Underarm length	- .5000	- .6875	- .7500	
39.	Waist width	- .5000	- 1.5625	- .6250	
40.	Armhole curve	+ .3750	+ .7500	+ .3125	
41.	Full length	+ .0625	+ .4375	- .0625	
42.	Neck curve	- .6875	- .6250	- .4375	
43.	Neck curve depth	- .1250	- .1875	.0000	
44.	Armhole curve depth	- .2500	+ .1875	+ .0625	
45.	Armhole depth	+ .7500	+ 1.2500	+ 1.1250	
46.	Armhole width	- .8750	- .6250	- 1.1875	
47.	Shoulder dart	+ .5°	--**	- .5°	
48.	Neck dart	--**	--	--	
49.	Waist dart	+ 1.5°	+ 8.5°	.0°	

TABLE XXII (Continued)

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS OF SIZE 16 PATTERNS IN THE MEDIUM PRICE GROUP

Blouse Back

Brand A	Variations*						
	Brand B		Brand C		Brand H		
	4	3	4	3	4	3	4
+ .5000	+ .1250	+ .4375	.0000	.0000	+ .3125	+ .3125	
- .6875	- .3750	- .4375	+ .0625	+ .1250	+ .2500	+ .0625	
.0000	- .1875	- .3750	- .3125	- .1875	- .5625	- .3750	
+ .3125	+ .1250	+ .3125	+ .2500	+ .6875	+ .8125	+ .5625	
+ .8750	- .1250	+ .3125	.0000	+ 1.5000	- .1250	+ 1.9375	
- .4375	- .4375	- .3750	- .4375	- .3125	- .0625	- .0625	
+ .8125	+ .3125	+ .3125	+ .4375	+ .4375	+ .6875	+ .6875	
.0000	+ .1875	- .1250	+ .3125	+ .3125	+ .6250	+ .5000	
- .0625	+ .0625	+ .0625	+ .0625	+ .1875	+ .3125	+ .1250	
- .1250	- .6875	- .5000	- .6250	- .5000	- .2500	.0000	
- .5625	- .9375	- .7500	- .8750	- .7500	- .5625	- .2500	
+ .7500	+ .3750	+ .5625	+ .1250	+ .0625	- .3125	- .2500	
- .6875	- .7500	- .6250	- .6875	- .6875	- .6250	- .6875	
- 1.5625	- .6250	- .3125	- .8125	- .7500	- .1875	- .8125	
+ .7500	+ .3125	+ .6875	+ .3125	+ .3750	+ .0625	+ .0625	
+ .4375	- .0625	+ .1875	- .3750	- .2500	- .2500	- .0625	
- .6250	- .4375	- .5625	- .5625	.0000	- .3125	- .1250	
- .1875	.0000	- .1250	.0000	- .1250	- .1875	- .1250	
+ .1875	+ .0625	.0000	- .0625	- .3125	- .2500	.0000	
+ 1.2500	+ 1.1250	+ 1.1875	+ .9375	+ .8750	+ .4375	+ .2500	
- .6250	- 1.1875	- 1.0625	- 1.1875	- 1.1250	- 1.1875	- .8125	
--**	- .5°	.0°	--	--	--	--	
--	--	--	--	--	--	--	
+ 8.5°	.0°	+ .5°	+ .5°	.0°	- 1.5°	+ 6.5°	

TABLE XXII (C)

A COMPARISON OF THE VARIATION  
OF SIZE 16 PATTERNS IN TSleeve

Number	Name of Measurement	Brand A		Brand B	
		3	4	3	4
50.	Bicep	- .3750	- .1250	- .5000	-
51.	Overarm length	+ .3125	+ .1875	--**	+
52.	Sleeve cap height	+ .6875	+ .3750	+ .3750	+
53.	Overarm to elbow	+ 1.0000	+ .8125	--**	+
54.	Underarm length	- .4375	- .3750	--**	-
55.	Underarm length from bicep to elbow	+ .3750	+ .5000	--**	+
56.	Elbow girth	- .9375	- .8750	--**	-
57.	Wrist girth	+ .3125	+ .2500	--**	+
58.	Cap curve	+ .3750	+ .3125	- .5000	+

TABLE XXII (Continued)

COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE MEDIUM PRICE GROUPSleeve

A	Variations*					
	Brand B		Brand C		Brand H	
	3	4	3	4	3	4
- .1250	- .5000	- .3750	- .2500	- .2500	- .5625	- .5000
+ .1875	--**	+ .4375	- .3750	--	- .8125	- .7500
+ .3750	+ .3750	+ .7500	+ .8750	+ .8750	+ .5000	+ .5000
+ .8125	--**	+ 1.1250	+ .7500	--	+ .3750	+ .3750
- .3750	--**	- .3750	- 1.0625	--	- 1.2500	- 1.2500
+ .5000	--**	+ .4375	+ .0625	--	.0000	.0000
- .8750	--**	- 1.7500	- 1.5000	--	- 1.8125	- 1.6250
+ .2500	--**	+ .4375	+ .8750	--	+ .4375	+ 1.4375
+ .3125	- .5000	+ .3750	+ .3750	+ .4375	- .0625	- .0625

### 3. High price. (3 brands)

The variations in the measurements of the two size 16 patterns in Brands B, E, and G which were selected from the high price patterns of these companies are given in Table XXIII.

On the blouse front, the neck width was greater on Brand B and Brand G, but on Brand E, there was no variation on E1 and the variation on E2 was approximately  $1/2$  inch less than the Basic pattern. The neck depth was from  $1/8$  to approximately  $1/2$  inch greater on Brand G and from approximately  $1/2$  to 1 inch greater on Brand E. Brand B was  $1/2$  inch less on B5 and  $1/8$  inch greater on B6. The neck curve was from  $1/8$  to  $11/16$  inch greater in the three brands in the high price group. The neck curve depth was less on Brand B and Brand G but greater on Brand E.

The across shoulder and shoulder seam width measurements on the blouse front were greater than the Basic pattern. Brand E had the greatest variation in both measurements which was approximately 1 inch. Across the chest and bust widths were greater on all patterns except G1. G1 was less by  $11/16$  inch on the across chest measurement and  $7/16$  inch on the bust measurement. While the upper bust width was greater on Brand B, it was less on Brand E. This measurement on pattern G1 was  $7/8$  inch less and on G2 was  $3/16$  inch greater. The waist width was slightly greater on Brand E,  $3/16$  inch greater on pattern G2, approximately 1 inch greater on pattern B6, and  $3/8$  and  $11/16$  inch less on patterns B5 and G1 respectively.

The armhole depth was approximately 1 inch greater on all patterns except G2. G2 had the least variation of  $7/16$  inch and E2 had the greatest variation of  $1\ 9/16$  inches. The armhole width was from  $1/2$  to 1 inch less on all patterns except E1 which was  $1\ 5/16$  inches

greater. Though the armhole width was less and the armhole depth was greater on the majority of the patterns, the armhole curve measurement was greater on four out of the six patterns in this group. E1 had no variation and G2 was slightly less than the Basic pattern. The armhole curve depth was greater on all patterns except E1.

In length measurements on the blouse front the center front length was less than the Basic pattern in five out of the six patterns. E1 was the exception with a  $1/8$  inch greater variation. The full length was slightly less in both patterns of Brand G and B5 of Brand B. B6 did not vary but Brand E was approximately  $1/2$  inch greater. The slope of shoulder on Brand B was slightly greater and approximately  $1\ 1/4$  inches greater on Brand E. Brand G varied from  $1/8$  to  $3/8$  inch less than the Basic pattern on the slope of shoulder measurement. On the drop of shoulder measurement Brand E was  $1/2$  inch less, Brand G was from  $3/16$  to  $7/16$  inch greater, and B5 was slightly greater while B6 did not vary. The full side length was greater by approximately  $4\ 1/2$  inches on Brands B and E and  $3\ 1/2$  inches on Brand G. In Brands B and G, the underarm length was approximately 1 inch less than the Basic pattern. On the patterns of Brand E, E1 was  $1/8$  inch less but E2 was  $11/16$  inch greater. The shoulder to waist was greater than the Basic pattern, Brand E having the greatest variation. The waist dart varied less than the Basic pattern on Brand B and patterns E2 and G1. E1 measured  $1/2$  degree greater while G2 measured  $1\ 1/2$  degrees greater than the dart that was on the Basic pattern.

On the blouse back the neck width was less in the three brands by  $1/8$  to  $7/16$  inch. The neck depth was greater on all patterns except B5 which was slightly less. The neck curve was less on the three brands.

Brand G had the least variations and Brand B had the greatest variations. The neck curve depth was greater on Brand E, did not vary on pattern B5, was slightly less on B6 and G2, and was slightly greater on G1.

Across the shoulder on the blouse back was greater than the Basic pattern in all patterns of the high price group. Brand E had the greatest variation of  $3/4$  inch. Brand G was approximately  $1/2$  inch greater. The shoulder seam and shoulder draft width on all brands were greater. The shoulder seam width had the greater variation on all but two patterns. Across the chest was greater on four out of the six patterns while one pattern of Brand B did not vary and one pattern of Brand G was less. The bust width was less on Brands B and E and greater on Brand G. G2 was approximately 1 inch greater. The most outstanding variation was slightly greater than  $1/2$  inch. Only G2 had a greater upper bust width. The waist width was less on Brands B and E. On Brand G, G1 was slightly greater and G2 did not vary.

The armhole depth on the blouse back was approximately 1 inch greater on the six patterns. The armhole width was more than 1 inch greater on Brands B and E. On Brand G, G1 was approximately  $3/4$  inch less and G2 was approximately  $1/4$  inch greater. The armhole curve was from  $1/2$  inch to 1 inch greater on the three brands. Brand G had the greatest variation. Brands B and E varied approximately the same amount. The armhole curve depth was less than the Basic pattern in three of the patterns, did not vary in one pattern, and was greater in the two patterns of Brand G.

On the center back length measurements, four of the six patterns were greater by  $3/16$  inch. E2 of Brand E and G1 of Brand G varied less

than the Basic pattern. The full length did not vary on B5, was greater on B6, E1, E2, and G2, and was less on G1. The slope of shoulder was approximately 1 inch greater on Brands E and G, but on Brand B, B5 did not vary and B6 was slightly less than the Basic pattern. The drop of shoulder was less on the three brands with Brand G having the greatest variation of  $\frac{7}{8}$  inch. The full side length was from  $\frac{3}{4}$  to approximately 1 inch greater on Brand E, but less than  $\frac{1}{2}$  inch greater on Brands B and G. The underarm length was less by approximately 1 inch in Brands B and G and slightly less on E1 and approximately  $\frac{3}{4}$  inch less on E2.

The shoulder dart measurement was made on three patterns. Two of the patterns were  $\frac{1}{2}$  degree less and the third pattern was 1 degree greater. The waist dart varied from  $\frac{1}{2}$  to  $1\frac{1}{2}$  degrees greater. Brand G had the extreme variation of  $1\frac{1}{2}$  degrees in pattern G2 which was considered a poorly made pattern after studying it.

The bicep width on the sleeve was less than the Basic pattern on Brand B and Brand E, but approximately  $\frac{3}{4}$  inch greater on Brand G. The sleeve cap height was greater. The cap curve measurement on Brand G was approximately 1 inch greater, on Brand E was slightly less, and on Brand B was less on B5 by  $\frac{1}{2}$  inch and greater on B6 by  $\frac{1}{4}$  inch. The other sleeve measurements were made only on pattern G1. These were greater than the Basic pattern with the exception of the overarm length which was approximately  $\frac{1}{2}$  inch less. The wrist girth was more than  $2\frac{1}{2}$  inches greater than the corresponding measurement on the Basic pattern.

The following general likenesses and differences in the variations of the measurements of the patterns of the three brands included in the high price group were noted. In general, the neck width was less



on the blouse back and greater on the blouse front while the neck depth was greater on the blouse front and back in all patterns except B5. Though the neck curve was greater on the blouse front and less on the blouse back, the total neck curve was greater on all patterns except E2 which did not vary. The neck curve depth was greater on the blouse front and back of Brand E, less on the blouse back and front on Brand B with the exception of the blouse back of B5 which did not vary, and less on the blouse front and back of Brand G except on the blouse back of G2 which was greater. Across the shoulder and shoulder seam measurements were greater on the blouse front and back. Across the chest was greater on all patterns except G1. The total bust width was less on Brand B and patterns E2 and G1. The total of E1 was only 1/16 inch greater and G2 was more than 1 1/2 inches greater than the Basic pattern. The upper bust width was less on all patterns except G2 in this group. The total waist width was less on B5 and G1, greater on B6, E1, and G2, and did not vary on E1. The armhole depth was greater on all brands, blouse back and front, and the armhole width was less on all patterns except the blouse front of E1 and blouse back of G2. The total armhole curve was greater on all brands of this price group. The center front length was less on the majority of the patterns, but the full length of the center front was less on Brands B and G but greater on Brand E. The center back length and full back length were greater on the majority of the patterns. The slope of shoulder and drop of shoulder on Brand B were greater on the blouse front and less on the blouse back where there was a variation. On Brand E the slope of shoulder was greater on the blouse front and back, and the drop of shoulder was less on the blouse front and back. On Brand G, the slope of shoulder was less on the

blouse front and greater on the blouse back while the drop of shoulder was diametrically different. The full side length was approximately 4 inches greater on the blouse front and from  $5/16$  to  $15/16$  inch greater on the blouse back. The underarm length measurement was approximately 1 inch less on all patterns except El. While the waist darts on the blouse front were smaller on most of the patterns, those on the blouse back were greater.

TABLE XXIII

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE HIGH PRICE GROUP

Blouse Front

Number	Name of Measurement	Variations*			
		Brand B		Brand E	
		5	6	1	2
1.	Center front length	- .3750	- .2500	- .5000	+ .125
2.	Neck width	+ .1875	+ .3750	.0000	- .437
3.	Neck depth	- .5000	+ .1250	+ .9375	+ .437
4.	Across shoulder	+ .8125	+ .6875	+ 1.5000	+ .937
5.	Slope of shoulder	+ .3125	+ .1250	+ 1.3750	+ 1.250
6.	Drop of shoulder	+ .1250	.0000	- .5000	- .500
7.	Shoulder seam	+ .6250	+ .3750	+ 1.0000	+ 1.062
8.	Across chest	+ .2500	+ .3125	+ .1250	+ .375
9.	Bust width	+ .3125	+ .3750	+ .5000	+ .187
10.	Upper bust width	+ .1875	+ .1250	- .1875	- .312
11.	Full side length	+ 4.5000	+ 4.3125	+ 4.8750	+ 4.812
12.	Underarm length	- .9375	- .8750	- .1250	+ .687
13.	Waist width	- .3750	+ .9375	+ .1250	+ .062
14.	Armhole curve	+ 1.8125	+ .5000	.0000	+ .312
15.	Height of bust	- .1250	- .1250	- .2500	+ .062
16.	Armhole curve depth	+ .2500	+ .1875	- .1250	+ .312
17.	Neck curve depth	- .1250	- .1250	+ .6250	+ .062
18.	Bust point width	+ .3125	- .1875	.0000	- .062
19.	Full length	- .1875	.0000	+ .4375	+ .562
20.	Neck curve	+ .6875	+ .4375	+ .6250	+ .125
21.	Dart point to bust point	---**	+ 1.4375	--	--
22.	Armhole depth	+ 1.5000	+ 1.3125	+ 1.0000	+ 1.562
23.	Armhole width	- .6875	- .6250	+ 1.3125	- 1.062
24.	Shoulder to waist	+ .3750	+ .0625	+ .6250	+ .687
25.	Waist dart	- 4.0°	- 7.0°	+ .5°	- .5°

\*Variations are given in inches except for variations 25, 47, 48, in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XXIII

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE HIGH PRICE GROUP

Blouse Front

Measurement	Variations*					
	Brand B		Brand E		Brand G	
	5	6	1	2	1	2
Length	- .3750	- .2500	- .5000	+ .1250	- .5625	- .2500
	+ .1875	+ .3750	.0000	- .4375	+ .0625	+ .1875
Chest	- .5000	+ .1250	+ .9375	+ .4375	+ .4375	+ .1250
	+ .8125	+ .6875	+ 1.5000	+ .9375	+ .0625	+ .5625
Waist	+ .3125	+ .1250	+ 1.3750	+ 1.2500	- .3750	- .1250
	+ .1250	.0000	- .5000	- .5000	+ .1875	+ .4375
Sleeve	+ .6250	+ .3750	+ 1.0000	+ 1.0625	+ .0625	+ .6250
	+ .2500	+ .3125	+ .1250	+ .3750	- .6875	+ .3750
Collar	+ .3125	+ .3750	+ .5000	+ .1875	- .4375	+ .7500
	+ .1875	+ .1250	- .1875	- .3125	- .8750	+ .1875
Shoulder	+ 4.5000	+ 4.3125	+ 4.8750	+ 4.8125	+ 3.8125	+ 3.3125
	- .9375	- .8750	- .1250	+ .6875	- 1.2500	- 1.3125
Armhole	- .3750	+ .9375	+ .1250	+ .0625	- .6875	+ .3125
	+ 1.8125	+ .5000	.0000	+ .3125	+ .4375	- .0625
Depth	- .1250	- .1250	- .2500	+ .0625	- .2500	- .1250
	+ .2500	+ .1875	- .1250	+ .3125	+ .1250	+ .2500
Armhole	- .1250	- .1250	+ .6250	+ .0625	- .1250	- .5000
	+ .3125	- .1875	.0000	- .0625	+ .1250	+ .1875
Bust	- .1875	.0000	+ .4375	+ .5625	- .1875	- .0625
	+ .6875	+ .4375	+ .6250	+ .1250	+ .3750	+ .3125
Waist	--**	+ 1.4375	--	--	--	--
	+ 1.5000	+ 1.3125	+ 1.0000	+ 1.5625	+ 1.0625	+ .4375
Sleeve	- .6875	- .6250	+ 1.3125	- 1.0625	- .9375	- .5000
	+ .3750	+ .0625	+ .6250	+ .6875	+ .1250	+ .1875
Collar	- 4.0°	- 7.0°	+ .5°	- .5°	- 3.0°	+ 1.5°

given in inches except for variations 25, 47, 48, and 49, which are given

variation was less than the basic pattern.

variation was greater than the basic pattern.

was made on that pattern.

TABLE XXIII (Continued)

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE HIGH PRICE GROUP

Blouse Back

Number	Name of Measurement	Variations*			
		Brand B		Brand E	
		5	6	1	2
26.	Center back length	+ .1875	+ .1875	+ .1875	- .0625
27.	Neck width	- .4375	- .3125	- .1875	- .2500
28.	Neck depth	- .1875	+ .8750	+ .1875	+ .3125
29.	Across shoulder	+ .3125	+ .0625	+ .7500	+ .7500
30.	Slope of shoulder	.0000	- .1250	+ 1.1875	+ .9375
31.	Drop of shoulder	- .4375	- .4375	- .6250	- .4375
32.	Shoulder seam	+ .5000	+ .1875	+ .7500	+ .8750
33.	Shoulder draft width	+ .3125	+ .1875	+ .3750	+ .4375
34.	Across chest	+ .1250	.0000	+ .1250	+ .0625
35.	Bust width	- .5625	- .5000	- .4375	- .4375
36.	Upper bust width	- .7500	- .8750	- .4375	- .8125
37.	Full side length	+ .3125	+ .4375	+ .9375	+ .7500
38.	Underarm length	- .8125	- .8125	- .0625	- .6875
39.	Waist width	- .3750	- .6875	- .1875	- .0625
40.	Armhole curve	+ .5625	+ .6875	+ .5625	+ .8750
41.	Full length	.0000	+ .0625	+ .3750	+ .1875
42.	Neck curve	- .5000	- .3750	- .1875	- .1250
43.	Neck curve depth	.0000	- .0625	+ .2500	+ .1875
44.	Armhole curve depth	- .1250	- .0625	- .0625	.0000
45.	Armhole depth	+ 1.1875	+ 1.3125	+ .9375	+ 1.3750
46.	Armhole width	- 1.2500	- 1.0625	- 1.0625	- 1.2500
47.	Shoulder dart	- .5°	- .5°	--**	--
48.	Neck dart	--**	--	--	--
49.	Waist dart	+ .5°	+ 1.0°	+ 2.0°	+ .5°

TABLE XXIII (Continued)

SON OF THE VARIATIONS IN THE MEASUREMENTS  
 ZE 16 PATTERNS IN THE HIGH PRICE GROUP

Blouse Back

Brand B		Variations*				Brand G				
5	6	1	2	1	2					
.1875	+	.1875	+	.1875	-	.0625	-	.3750	+	.1875
.4375	-	.3125	-	.1875	-	.2500	-	.1250	-	.3125
.1875	+	.8750	+	.1875	+	.3125	+	.3125	+	.2500
.3125	+	.0625	+	.7500	+	.7500	+	.4375	+	.4375
.0000	-	.1250	+	1.1875	+	.9375	+	.7500	+	1.4375
.4375	-	.4375	-	.6250	-	.4375	-	.8750	-	.8750
.5000	+	.1875	+	.7500	+	.8750	+	.1875	+	.5000
.3125	+	.1875	+	.3750	+	.4375	+	.6250	+	.1250
.1250		.0000	+	.1250	+	.0625	-	.1250	+	.6250
.5625	-	.5000	-	.4375	-	.4375	+	.1875	+	.9375
.7500	-	.8750	-	.4375	-	.8125	-	.1250	+	.4375
.3125	+	.4375	+	.9375	+	.7500	+	.3750	+	.4375
.8125	-	.8125	-	.0625	-	.6875	-	.9375	-	1.3125
.3750	-	.6875	-	.1875	-	.0625	+	.3750	+	.0000
.5625	+	.6875	+	.5625	+	.8750	+	1.0625	+	1.1250
.0000	+	.0625	+	.3750	+	.1875	-	.0625	+	.5625
.5000	-	.3750	-	.1875	-	.1250	-	.0625	-	.0625
.0000	-	.0625	+	.2500	+	.1875	+	.1875	-	.1250
.1250	-	.0625	-	.0625		.0000	+	.1250	+	.3750
.1875	+	1.3125	+	.9375	+	1.3750	+	1.0000	+	1.3750
.2500	-	1.0625	-	1.0625	-	1.2500	-	.8125	+	.3125
.5°	-	.5°		--**		--	+	1.0°		--
--**		--		--		--		--		--
.5°	+	1.0°	+	2.0°	+	.5°	+	3.5°	+	15.5°

TABLE XXIII (Continued)

A COMPARISON OF THE VARIATIONS IN THE MEASUREMENT  
OF SIZE 16 PATTERNS IN THE HIGH PRICE GROUP

Sleeve

Number	Name of Measurement	Variations*			
		Brand B		Brand E	
		5	6	1	2
50.	Bicep	- .3750	- .2500	- .4375	- .4375
51.	Overarm length	---**	--	--	--
52.	Sleeve cap height	+ .3750	+ .7500	+ .5625	+ .5625
53.	Overarm to elbow	---**	--	--	--
54.	Underarm length	---**	--	--	--
55.	Underarm length from bicep to elbow	---**	--	--	--
56.	Elbow girth	---**	--	--	--
57.	Wrist girth	---**	--	--	--
58.	Cap curve	- .5000	+ .2500	- .2500	- .0625

TABLE XXIII (Continued)

COMPARISON OF THE VARIATIONS IN THE MEASUREMENTS  
OF SIZE 16 PATTERNS IN THE HIGH PRICE GROUP

Sleeve

		Variations*					
Brand B		Brand E		Brand G			
5	6	1	2	1	2		
- .3750	- .2500	- .4375	- .4375	+ .6250	+ .7500		
---**	--	--	--	- .4375	--		
+ .3750	+ .7500	+ .5625	+ .5625	+ .6250	+ .1875		
---**	--	--	--	+ 1.3125	--		
---**	--	--	--	+ .3750	--		
---**	--	--	--	+ .7500	--		
---**	--	--	--	+ .2500	--		
---**	--	--	--	+ 2.6875	--		
- .5000	+ .2500	- .2500	- .0625	+ 1.0000	+ 1.3125		



Mean Variations in the Measurements  
of Size 16 Patterns in the Low, Medium, and High Price Groups

A comparison of the mean variations from the Basic pattern in the measurements of size 16 patterns in the low, medium, and high price groups is shown in Table XXIV.

In the neck measurements on the blouse front, the greatest variations of the neck width and neck curve depth were in the low price group. The medium price group had the least variation in the neck depth and neck curve measurements. The high price group had the greatest variations of the neck curve and neck depth and the least variations in the neck width and neck curve depth. The variations in the neck curve depth were less than the Basic pattern.

In the width measurements on the blouse front, the low price group had the greatest variations of the three price groups in the shoulder seam and across chest measurements. These variations were greater than the Basic pattern. The least variation in this price group was in the upper bust width. In the medium price group, the across shoulder, bust, and waist widths had the greatest variation from the Basic pattern. The across shoulder and bust widths were greater than the Basic pattern while the waist width was less than the Basic pattern. In the high price group, the greatest variation was in the upper bust width which was less than the Basic pattern. The least measurement variations in the high price group were in the across shoulder, shoulder seam, across chest, bust width and waist width. All of these variations were greater than the Basic pattern.

The armhole curve depth and armhole width on the blouse front had the greatest variation in the low price group. The low price group

had the least variation in the armhole curve measurements. The least variation in the armhole depth was in the medium price group. In the high price group, the armhole curve and armhole depth had the greatest variations while the armhole curve depth and armhole width had the least variations.

In the length measurements on the blouse front the low price group had the greatest variation in the full length, slope of shoulder, and drop of shoulder measurements, and the least variation in the full side length. In the medium price group, the underarm length, shoulder to waist, and full side length had the greatest variations. The medium price group had the least variation in the center front length. The greatest variation in the high price group was in the center front length. The least variations in the high price group were the full length, slope of shoulder, drop of shoulder, shoulder to waist, and underarm length. These variations were all greater than the Basic pattern except the underarm length.

All variations in the measurements of the waist dart on the blouse front were less than the Basic pattern. The low price group had the greatest variation in the size of the waist dart and the high price group had the least variation.

In the neck measurements on the blouse back, the greatest variations in the neck width and neck curve depth were in the low price group. The least variation in the neck depth was in this group. Each of these measurements was less than the Basic pattern. In the medium price group the neck curve measurement had the greatest variation which was greater than the Basic pattern. The neck width had the least variation in the medium price group and this variation was less than the

Basic pattern. In the high price group, the neck depth had the greatest variation which was greater than the Basic pattern and the neck curve and neck curve depth had the least variation which was less than the Basic pattern.

In the width measurements on the blouse back, the low price group had the greatest variations of the three price groups in the across shoulder, shoulder seam, shoulder draft width, across chest, and upper bust measurements. All of these measurements except the upper bust were greater than the Basic pattern. Variations of the bust, upper bust, and waist widths were less than the Basic pattern in all price groups. The medium price group had the greatest variation in the bust and waist width of any price group. The across shoulder and shoulder draft width had the least variations in the medium price group. The high price group had the least variations in the shoulder seam, across chest, bust width, upper bust, and waist measurements. The low price group had no variations which were the least of the three price groups, while the high price group had no variations which were the greatest in the three groups.

The armhole curve depth, armhole depth, and armhole width had the least variations in the low price group. The armhole curve depth and armhole depth were greater than the Basic pattern while the armhole width was less than the Basic pattern. The medium price group had the greatest variations in the armhole width and armhole curve depth and the least variation in the armhole curve. The variation of the armhole width was approximately 1 inch less than the Basic pattern while the variation of the armhole curve was approximately  $\frac{3}{8}$  inch greater than the Basic pattern. In the high price group, the armhole depth had the greatest variation which was more than 1 inch greater than the Basic

pattern. The armhole curve was also greater in the high price group. The armhole width measurements were less than the Basic pattern in the three price groups.

In the length measurements on the blouse back, the low price group had the greatest variations in the center back and slope of shoulder measurements. The least variation in the low price group was the full side length. In the medium price group, the slope of shoulder, drop of shoulder, underarm length, and full length had the least variations of the three price groups. The drop of shoulder and full length variations were less than the Basic pattern. In the high price group, the drop of shoulder, full side length, underarm length, and full length were greater than in any other price group. The center back length was less than in the other price groups. The drop of shoulder and underarm length measurements and variations were less than the Basic pattern in all price groups.

All variations in the measurements of the waist dart on the blouse back were greater than the Basic pattern. The medium price group had the least variation and the high price group had the greatest variation in the size of the waist dart.

In the sleeve measurements the low price group had the greatest variation in the overarm length and the least variations in the overarm to elbow length, underarm length from bicep to elbow, and cap curve. The variation of the overarm length was less than the Basic pattern. In the medium price group, the bicep, sleeve cap height, underarm length, and elbow girth had the greatest variations. All of these variations but the sleeve cap height were less than the Basic pattern. The least variations in the medium price group were in the overarm length which

was less than the Basic pattern and the wrist girth which was  $\frac{5}{8}$  inch greater than the Basic pattern. In the high price group, the overarm to elbow length, underarm length from bicep to elbow, cap curve, and wrist girth had the greatest variations of the three brands. The wrist girth measurement varied by  $2 \frac{11}{16}$  inches as compared to the  $\frac{5}{8}$  inch which was the least variation. The least variations in the high price group were in the bicep width, sleeve cap height, underarm length, and elbow girth. All of these measurements were greater than the Basic pattern except the bicep width. In all price groups, the bicep and overarm length variations were less than in the Basic pattern.

The following general likenesses and differences were noted in the mean variations of the measurements from the Basic pattern in the three price groups. On the blouse front the underarm length, neck curve depth, armhole width, and waist dart variations were less than the Basic pattern in all price groups. On the blouse back, the neck width, neck curve, bust, upper bust, waist, armhole width, underarm length, and drop of shoulder were less than the Basic pattern in the three price groups. On the sleeve, the bicep and overarm length variations in the measurements were less than the Basic pattern in each price group. The center front length and drop of shoulder were greater in the low and medium price groups but less in the high price group. Similar variations on the blouse back were found in the neck width and neck curve depth. The neck depth and neck curve depth were less than the Basic pattern in the low and medium price groups while in the high price group they were greater than the Basic pattern. On the sleeve, the variations of the underarm length and elbow girth were unusual in the same way. The underarm length was less in the low and medium price groups by  $\frac{3}{4}$  inch or

more and greater by  $\frac{3}{8}$  inch in the high price group. The elbow girth was more than 1 inch less than the Basic pattern in the low and medium price groups and  $\frac{1}{4}$  inch greater than the Basic pattern in the high price group.

From these findings it appeared that the low and medium price groups had no regularity in the variations of the neck measurements. The high price group had the greatest variation in the blouse front and back which was greater than the Basic pattern. The total neck curve measurement variation was greatest in the high price group and least in the medium price group. The total variation in the high price group was greater than the Basic pattern but in the medium price group it was less than the Basic pattern.

In the width measurements, the low price group was greater in the shoulder seam width by the greatest amount on the blouse front and back. In the medium price group the bust and waist widths had the greatest amount of variation. The bust width variation was greater on the blouse front and less on the blouse back than the Basic pattern but the total bust width was slightly less than the Basic pattern. In total bust width the high price group had the greatest variation and the low price group had the least variation which were greater than the Basic pattern. The waist width had the greatest variation on the blouse front and back and the greatest variation in total measurement. The total waist measurement was less than the Basic pattern in all price groups. The high price group had the least variations in the shoulder seam, across chest, bust width, and waist width on the blouse front and back. This made the total waist width vary the least in the high price group. However, the greater variation on the blouse front and the lesser

variation on the blouse back made the total bust variation greatest in the high price group and least in the low price group.

The findings on the armhole measurements show no regularity in the variations of the three price groups except in the armhole depth. This measurement had the greatest variation on the blouse front and back. The total armhole curve had the greatest variation from the Basic pattern in the high price group and the least variation from the Basic pattern in the low price group.

In the length measurements, the low price group had the greatest variation in the slope of shoulder and the least variation in the full side length on the blouse front and back. Though the center back length was the least and the full length the greatest on the blouse back in the high price group, the full length had the least variation of the three price groups on the blouse back.

The total armhole curve and the sleeve cap curve were greatest in the high price group and least in the low price group. Unusual was the greatest sleeve cap height in the medium price group and the greatest armhole depth in the high price group. The high price group had the least variation in the sleeve cap height.

Out of the fifty-eight measurements on the patterns studied, the low price group had 20 variations which were the greatest and 13 variations which were the least in the three price groups. In the medium price group, there were 16 variations which were the greatest and 15 variations which were the least. In the high price group, there were 20 variations which were the greatest and 28 variations which were the least. Variations of two measurements, the neck dart and shoulder dart, were not included in the variations. The low price group had the smallest

number of least variations from the Basic pattern in the three price groups. The low price group had the same number of variations as the high price group that were the greatest variations in the three price groups. The medium price group had approximately the same number of variations which were greatest and least in the three price groups. The high price group had the greatest number of least variations. Since the number of least variations increased as the price increased, it appeared that there might be a correlation between the price of the pattern and the amount of variation from the Basic pattern. The higher superlatives of the number of greatest and least variations were found in the high price group. Thus, the increase in the number of least measurements could be due to the increase in the price with more emphasis placed upon sizing by the manufacturer. The increase in the number of greater measurements could be due to the increase in emphasis which is placed upon fashion in the design and less emphasis on sizing.



TABLE XXIV

COMPARISON OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
IN THE LOW, MEDIUM, AND HIGH PRICE GROUPS

Blouse Front

Number	Name of Measurement	Mean Variations*		
		Low	Medium	High
1.	Center front length	± .1615	± .0938	- .3021
2.	Neck width	± .2865	± .1406	± .0625
3.	Neck depth	± .2396	± .0938	± .2604
4.	Across shoulder	± .8125	± .8672	± .7604
5.	Slope of shoulder	± .4271	± .1953	- .0833
6.	Drop of shoulder	± .3229	± .2969	- .0417
7.	Shoulder seam	± .8021	± .7469	± .6250
8.	Across chest	± .3021	± .2188	± .1250
9.	Bust width	± .3208	± .4297	± .2813
10.	Upper bust width	± .0469	± .0859	- .1458
11.	Full side length	± 3.8906	± 4.3047	± 4.2708
12.	Underarm length	- .8229	- .8750	- .6354
13.	Waist width	± .0729	- .1953	± .0625
14.	Armhole curve	± .2969	± .4453	± .5000
15.	Height of bust	± .0833	± .1016	- .1354
16.	Armhole curve depth	± .3073	± .2969	± .1667
17.	Neck curve depth	- .1198	- .1016	- .0313
18.	Bust point width	- .1875	- .2031	± .0625
19.	Full length	± .4479	± .4453	± .0938
20.	Neck curve	± .4583	± .3984	± .4406
21.	Dart point to bust point	± .6484	± .9792	± 1.4375
22.	Armhole depth	± 1.1250	± 1.1094	± 1.1458
23.	Armhole width	- .8385	- .6875	- .4167
24.	Shoulder to waist	± .5990	± .6016	± .3434
25.	Waist dart	- 4.0°	- 3.0°	- 2.1°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

±Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

TABLE XXIV (Continued)

COMPARISON OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
IN THE LOW, MEDIUM, AND HIGH PRICE GROUPS

Blouse Back

Number	Name of Measurement	Mean Variations*		
		Low	Medium	High
26.	Center back length	± .3333	± .2578	± .0521
27.	Neck width	- .3385	- .1953	- .2708
28.	Neck depth	- .2604	- .2891	± .2917
29.	Across shoulder	± .6302	± .4297	± .4583
30.	Slope of shoulder	± .7917	± .5625	± .6979
31.	Drop of shoulder	- .3281	- .2969	- .6146
32.	Shoulder seam	± .7552	± .5547	± .5000
33.	Shoulder draft width	± .4635	± .2813	± .3438
34.	Across chest	± .1565	± .1406	± .1354
35.	Bust width	- .3073	- .3594	- .1354
36.	Upper bust width	- .6354	- .6172	- .4271
37.	Full side length	± .1406	± .1797	± .5417
38.	Underarm length	- .6823	- .6563	- .7708
39.	Waist width	- .4010	- .6953	- .1563
40.	Armhole curve	± .3802	± .3672	± .8125
41.	Full length	± .0625	- .0391	± .1875
42.	Neck curve	- .2500	- .4141	- .2188
43.	Neck curve depth	- .1146	- .1094	± .0729
44.	Armhole curve depth	± .0313	- .0781	± .0413
45.	Armhole depth	± .8333	± .8516	± 1.1979
46.	Armhole width	- .9010	- 1.0078	- .9583
47.	Shoulder dart	± 1.1°	.0°	.0°
48.	Neck dart	---**	--	--
49.	Waist dart	± 2.4°	± .5°	± 3.8°

TABLE XXIV (Continued)

COMPARISON OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
 IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
 IN THE LOW, MEDIUM, AND HIGH PRICE GROUPS

Sleeve

Number	Name of Measurement	Mean Variations*		
		Low	Medium	High
50.	Bicep	- .2188	- .3672	- .0208
51.	Overarm length	- .5694	- .1667	- .4375
52.	Sleeve cap height	± .5208	± .6172	± .5104
53.	Overarm to elbow	± .7014	± .7396	± 1.3125
54.	Underarm length	- .7500	- .7917	± .3750
55.	Underarm length from bicep to elbow	± .1389	± .2292	± .7500
56.	Elbow girth	- 1.1667	- 1.4167	± .2500
57.	Wrist girth	± .8036	± .6250	± 2.6875
58.	Cap curve	± .1396	± .1563	± .2917

Variations in the Grading of Sizes 14, 16, 18, and 20 Patterns  
of the Four Brands in the Medium Price Group

1. Brand A. (Style 3)

The variations in grading four sizes of the Misses' patterns in Brand A, Style 3 of the medium price group are given in Table XXV.<sup>10</sup>

In the neck measurements on the blouse front of Brand A, the neck width of size 16 was  $\frac{1}{16}$  inch less than size 14. Size 18 was  $\frac{1}{4}$  inch greater than size 16 and size 20 was  $\frac{1}{8}$  inch less than size 18. The neck depth was the only neck measurement that increased the same amount,  $\frac{1}{8}$  inch, between each of the sizes measured. There was no variation in the neck curve measurement between sizes 14 and 16,  $\frac{3}{8}$  inch greater measurement in size 18 than in size 16, and a  $\frac{1}{16}$  inch greater measurement in size 20 than in size 18. The neck curve depth was  $\frac{1}{8}$  inch greater in size 16 than in size 14; size 16 and size 18 had no variation in this measurement; and size 20 was  $\frac{1}{16}$  inch less than size 18.

In the width measurements on the blouse front, the across shoulder increased  $\frac{1}{8}$  inch from size 14 to size 16,  $\frac{7}{16}$  inch from size 16 to size 18, and sizes 18 and 20 had the same measurement. The shoulder seam increased  $\frac{1}{8}$  inch between sizes 14 and 16, and sizes 18 and 20. In sizes 16 and 18 there was an increase of  $\frac{3}{16}$  inch in the larger size in the shoulder seam measurement. Across the chest increased  $\frac{5}{16}$  inch from size 14 to size 16 and size 16 to size 18. This measurement in sizes 18 and 20 was  $\frac{1}{16}$  inch greater in size 20. Size 14 to 16 had the greatest increase in bust width of the four sizes studied. This increase was  $\frac{5}{8}$  inch. Size 18 had an increase of  $\frac{1}{2}$  inch over size 16. Size 20 had an

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10. Measurements are given in Appendix Table IX.

increase of  $\frac{9}{16}$  inch from size 18. The upper bust width increased the greatest amount,  $\frac{9}{16}$  inch, from size 14 to size 16 than in any other size. Size 18 increased  $\frac{1}{2}$  inch from size 16 which was the same amount as the bust width increased. Size 20 was  $\frac{3}{8}$  inch greater in upper bust width than size 18. The waist width increased  $\frac{9}{16}$  inch from size 14 to size 16,  $\frac{7}{16}$  inch from size 16 to size 18, and  $\frac{5}{8}$  inch from size 18 to size 20. Size 20 increased the greatest amount.

The armhole depth on the blouse front was  $\frac{1}{16}$  inch greater in size 16 than in size 14 and  $\frac{1}{8}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively. The armhole width of size 16 was  $\frac{1}{2}$  inch greater than in size 14. Size 18 was  $\frac{1}{16}$  inch greater than size 16 and size 20 was  $\frac{7}{16}$  inch greater than size 18. The armhole curve measurement increased  $\frac{1}{2}$  inch from size 14 to size 16,  $\frac{1}{8}$  inch from size 16 to size 18, and  $\frac{3}{8}$  inch from size 18 to size 20. There was a difference of  $\frac{1}{16}$  inch between the measurements of sizes 14 and 16 and sizes 18 and 20. Sizes 16 and 18 had no variation in the measurements of the two sizes.

In the length measurements on the blouse front, the center front length and full length had the greatest increase between sizes 16 and 18. The center front length of size 16 was  $\frac{5}{16}$  inch greater than size 14, of size 18 was  $\frac{7}{16}$  inch greater than size 16, and of size 20 was  $\frac{3}{8}$  inch greater than size 18. The full side length of size 18 was  $\frac{5}{8}$  inch greater than in size 16. Size 16 was  $\frac{1}{2}$  inch greater than size 14 and size 20 was  $\frac{7}{16}$  inch greater than size 18 in full length. The slope of shoulder increased the greatest amount,  $\frac{9}{16}$  inch, from size 14 to size 16. Size 18 was  $\frac{7}{16}$  inch greater than size 16, and size 20 was  $\frac{1}{2}$  inch greater than size 18. The drop of shoulder had no variation in the

measurements of sizes 14 to 16 and 18 to 20. Size 18 was  $\frac{3}{16}$  inch greater than size 16. The full side length was the only length measurement on the blouse front that increased the same amount in the four sizes studied. This amount was  $\frac{5}{16}$  inch. The underarm length increased  $\frac{3}{16}$  inch from size 14 to size 16 while sizes 16 to 18 and 18 to 20 increased only  $\frac{1}{16}$  inch.

The waist dart increased 1 degree from size 14 to size 16 and from size 16 to 18, but in size 18 to 20 it increased  $1\frac{1}{2}$  degrees.

On the blouse back the neck width measurement increased the same amount,  $\frac{1}{16}$  inch, from size 14 to size 16 and size 18 to size 20. Size 18 increased  $\frac{3}{16}$  inch more than size 16. The neck depth of size 16 was  $\frac{1}{16}$  inch less than in size 14. Sizes 16 and 18 had the same measurement. Size 20 had an increase of  $\frac{1}{16}$  inch over size 18 in the neck depth measurement. The neck curve was  $\frac{1}{16}$  inch greater in size 16 than in size 14. The variation between sizes 16 and 18 and sizes 18 and 20 was  $\frac{1}{8}$  inch. The neck curve depth was  $\frac{1}{16}$  inch less in size 16 than in size 14. There was no variation between sizes 16 and 18 and sizes 18 and 20.

In the width measurements on the blouse back, the across shoulder measurement was  $\frac{1}{16}$  inch greater in size 16 than in size 14. Sizes 18 and 20 were  $\frac{1}{4}$  inch greater than sizes 16 and 18 respectively. In the shoulder seam width, size 16 was  $\frac{1}{8}$  inch greater than size 14, size 18 was  $\frac{1}{16}$  inch greater than size 16, and size 20 was  $\frac{1}{8}$  inch greater than size 18. The shoulder draft width was  $\frac{1}{8}$  inch greater in size 16 than in size 14,  $\frac{1}{8}$  inch less in size 18 than in size 16, and  $\frac{11}{16}$  inch greater in size 20 than in size 18. Across the chest increased the same amount between each size in the patterns measured. This amount was

$1/4$  inch. The bust width increased  $1/2$  inch from size 14 to size 16,  $7/16$  inch from size 16 to size 18, and  $9/16$  inch from size 18 to size 20. The upper bust width was  $11/16$  inch greater in size 16 than in size 14,  $5/16$  inch greater in size 18 than in size 16, and  $5/8$  inch greater in size 20 than in size 18. The waist width increased  $9/16$  inch from size 14 to size 16,  $7/16$  inch from size 16 to size 18, and  $1/2$  inch from size 18 to size 20.

The armhole width on the blouse back increased  $1/4$  inch between sizes 14 to 16 and sizes 18 to 20. Size 16 to size 18 increased  $3/16$  inch. The armhole width increased  $5/16$  inch from size 14 to size 16,  $3/16$  inch from size 16 to size 18, and  $1/4$  inch from size 18 to size 20. The armhole curve was  $1/2$  inch greater in size 16 than in size 14,  $5/16$  inch greater in size 18 than in size 16, and  $7/16$  inch greater in size 20 than in size 18. The armhole curve depth was  $1/16$  inch less in size 16 than in size 14. Size 18 was  $1/8$  inch greater than size 16 in this measurement. Sizes 18 and 20 had the same measurement.

In the length measurements on the blouse back, the center back length increased  $7/16$  inch from size 14 to size 16,  $5/16$  inch from size 16 to size 18, and  $3/8$  inch from size 18 to size 20. In the full length measurement the variation between sizes 14 to 16 and 18 to 20 was  $7/16$  inch. The variation between sizes 16 and 18 was  $5/16$  inch. The slope of shoulder was  $1/8$  inch less in size 16 than in size 14,  $13/16$  inch greater in size 18 than in size 16, and had no variation between sizes 18 and 20. The drop of shoulder variation in grading decreased as the size increased. Size 16 was  $1/8$  inch greater than size 14. Size 18 was  $1/16$  inch greater than size 16 and size 20 had no variation between sizes 18 and 20. The full side length between sizes 14 to 16 and 18 to 20

varied  $\frac{5}{16}$  inch. In size 18 the full side length increased  $\frac{1}{4}$  inch from size 16. The variation between sizes 14 to 16 and 16 to 18 was  $\frac{1}{16}$  inch in the underarm length. There was no variation in this measurement between sizes 18 and 20.

The waist dart had the greatest increase of 9 degrees from size 16 to size 18. Sizes 14 to 16 had no variation in grading of this dart. Sizes 18 and 20 had an increase of 1 degree in the size 20.

In the sleeve measurements, the bicep width increased  $\frac{5}{8}$  inch from size 14 to size 16 and  $\frac{1}{2}$  inch from size 16 to size 18 and size 18 to size 20. The overarm length increased  $\frac{3}{8}$  inch in all the sizes measured. The sleeve cap height was  $\frac{1}{4}$  inch greater in size 16 than in size 14,  $\frac{1}{4}$  inch greater in size 18 than in size 16, and  $\frac{1}{8}$  inch greater in size 20 than in size 18. The overarm to elbow was  $\frac{1}{4}$  inch greater in size 16 than in size 14,  $\frac{3}{8}$  inch greater in size 18 than size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The overarm length increased  $\frac{3}{16}$  inch from size 14 to 16 and size 18 to 20. Size 16 to 18 increased  $\frac{1}{4}$  inch in this measurement. The overarm length from bicep to elbow increased  $\frac{1}{16}$  inch from size 14 to 16,  $\frac{1}{8}$  inch from size 16 to 18, and size 18 to 20 had no variation between the two sizes. The elbow girth was  $\frac{7}{16}$  inch greater in size 16 than in size 14,  $\frac{3}{8}$  inch greater in size 18 than in size 16, and  $\frac{3}{8}$  inch greater in size 20 than in size 18. The wrist girth in size 14 to 16 increased  $\frac{3}{16}$  inch, size 16 to 18 increased  $\frac{1}{8}$  inch, and size 18 to 20 increased  $\frac{1}{4}$  inch. The cap curve increased the greatest amount,  $\frac{15}{16}$  inch, from size 14 to size 16. Sizes 16 to 18 and 18 to 20 increased  $\frac{11}{16}$  inch in grading of these sizes.

The following likenesses and differences were noted in the grading



of sizes 14, 16, 18, and 20 in Brand A. In the neck measurements, size 16 to 18 had the largest number of greatest variations on the blouse front and back between the two sizes. The total neck curve from size 14 to size 16 increased  $1/8$  inch, from size 16 to size 18 increased 1 inch, and from size 18 to 20 increased  $5/8$  inch.

Likenesses and differences noted in width measurements are as follows. Size 16 to size 18 had the least increase in the bust, upper bust, and waist widths on the blouse front and back. Across the shoulder had the greatest variation in measurements of size 16 to 18 on the blouse front and back. While the shoulder seam width was larger by the greatest amount on the blouse front, it was less by the least amount on the blouse back. Across the chest increased the same amount on the blouse front and back from size 14 to size 16 and size 16 to size 18. The total bust width had an increase of  $2\ 1/4$  inches from size 14 to size 16,  $1\ 3/4$  inches from size 16 to size 18, and  $2\ 1/4$  inches from size 18 to size 20. The total upper bust width had an increase of  $2\ 1/2$  inches from size 14 to size 16,  $1\ 5/8$  inches from size 16 to size 18, and 2 inches from size 18 to size 20. The total waist width increased  $2\ 1/4$  inches from size 14 to size 16,  $1\ 3/4$  inches from size 16 to size 18, and  $2\ 1/4$  inches from size 18 to size 20.

The following likenesses and differences were noted in armhole measurements. The armhole depth and armhole curve depth had no regularity in the variations between different sizes. The armhole width and armhole curve had the greatest increase between sizes 14 and 16 and the least increase between sizes 16 and 18 on the blouse front and back. The total armhole curve increased the greatest amount, 1 inch, from size 14 to 16 and the least amount,  $7/16$  inch, from size 16 to 18. The

variation between sizes 18 and 20 was  $13/16$  inch in the total armhole curve.

Likenesses and differences noted in length measurements include the following. In the center front and center back lengths, size 14 to 16 increased  $5/16$  inch on the blouse front in center front length measurement and  $7/16$  inch on the blouse back in the center back length measurement. The variation between sizes 16 and 18 was diametrically different from that in size 14 to 16. Size 18 to 20 had the same variation,  $3/8$  inch, in the center front length and center back length. In the full length on the blouse front and back, size 18 to 20 had the same variation of  $7/16$  inch in each measurement. Size 14 to 16 had the greater variation in full length on the blouse front and the less variation on the blouse back. Size 16 to 18 had the greatest variation in this measurement on the blouse back and the least variation on the blouse front. There was no regularity in the variations of the slope of shoulder measurements in the different sizes. The drop of shoulder had no variation in the measurements of size 18 and 20 on the blouse front and back. Though the drop of shoulder increased the same amount between all sizes measured on the blouse front, the blouse back had the same variation in measurements only between size 14 to 16 and size 18 to 20. The underarm length had the same variation of  $1/16$  inch between two sizes on the blouse front and two sizes on the blouse back. However, this variation between sizes was the same only in size 16 to 18 on the blouse front and back.

Likenesses and differences in grading the waist dart of Brand A were as follows. The waist dart had no regularity in the variations in measurements of the different sizes. The 9 degrees variation between

sizes 16 and 18 on the blouse back seemed unusual as compared to the approximate 1 degree variation in all sizes on the blouse front.

Generally, the greatest variation in grading the different sizes in Brand A neck measurements was between sizes 16 and 18. The greatest amount of variation in grading the width measurements was usually in size 14 to 16. Size 16 to 18 was a close second for the greatest amount of variation in grading these measurements. According to Rohr,<sup>11</sup> the amount of increase between different sizes in the same measurement as based on the body measurements issued by the Bureau of Standards is the same amount.<sup>12</sup> The findings in this brand indicated an equal variation in grading the same measurement in different sizes in one measurement on the blouse front, one measurement on the blouse back, and one measurement on the sleeve. The measurements with the same amount of variation on the blouse front and back were not the same. This made a total of three measurements on Brand A that had the same amount of variation in grading different sizes.

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11. M. Rohr, Pattern Drafting and Grading. New York: M. Rohr, 240 W. 98th Street, 1948.

12. Measurements for Misses' dress patterns suggested by the Bureau of Standards are in Appendix Table XIII.

TABLE XXV

VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
1.	Center front length	.3125	.4375	.3750
2.	Neck width	- .0625	.2500	- .1250
3.	Neck depth	.1250	.1250	.1250
4.	Across shoulder	.1250	.4375	.0000
5.	Slope of shoulder	.5625	.4375	.5000
6.	Drop of shoulder	.0000	.1875	.0000
7.	Shoulder seam	.1250	.1875	.1250
8.	Across chest	.3125	.3125	.0625
9.	Bust width	.6250	.5000	.5625
10.	Upper bust width	.5625	.5000	.3750
11.	Full side length	.3125	.3125	.3125
12.	Underarm length	.1875	.0625	.0625
13.	Waist width	.5625	.4375	.6250
14.	Armhole curve	.5000	.1250	.3750
15.	Height of bust	.1250	.2500	.1875
16.	Armhole curve depth	.0625	.0000	.0625
17.	Neck curve depth	.1250	.0000	- .0625
18.	Bust point width	.1250	.0625	.1875
19.	Full length	.5000	.6250	.4375
20.	Neck curve	.0000	.3750	.0625
21.	Dart point to bust point	- .1875	.0625	.0625
22.	Armhole depth	.0625	.1250	.1250
23.	Armhole width	.5000	.0625	.4375
24.	Shoulder to waist	.5000	.5000	.5625
25.	Waist dart	1.0°	1.0°	1.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.

TABLE XXV (Continued)

VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
26.	Center back length	.4375	.3125	.3750
27.	Neck width	.0625	.1875	.0625
28.	Neck depth	- .0625	.0000	.0625
29.	Across shoulder	.0625	.2500	.2500
30.	Slope of shoulder	- .1250	.8125	.0000
31.	Drop of shoulder	.1250	.0625	.0000
32.	Shoulder seam	.1250	.0625	.1250
33.	Shoulder draft width	.1250	- .1250	.6875
34.	Across chest	.2500	.2500	.2500
35.	Bust width	.5000	.4375	.5625
36.	Upper bust width	.6875	.3125	.6250
37.	Full side length	.3125	.2500	.3125
38.	Underarm length	.0625	.0625	.0000
39.	Waist width	.5625	.4375	.5000
40.	Armhole curve	.5000	.3125	.4375
41.	Full length	.4375	.3125	.4375
42.	Neck curve	.0625	.1250	.1250
43.	Neck curve depth	- .0625	.0000	.0000
44.	Armhole curve depth	- .0625	.1250	.0000
45.	Armhole depth	.2500	.1875	.2500
46.	Armhole width	.3125	.1875	.2500
47.	Shoulder dart	.0°	1.0°	.0°
48.	Neck dart	--**	--	--
49.	Waist dart	.0°	9.0°	1.0°

TABLE XXV (Continued)

VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
50.	Bicep	.6250	.5000	.5000
51.	Overarm length	.3750	.3750	.3750
52.	Sleeve cap height	.2500	.2500	.1250
53.	Overarm to elbow	.2500	.3750	.1875
54.	Overarm length	.1875	.2500	.1875
55.	Overarm length from bicep to elbow	.0625	.1250	.0000
56.	Elbow girth	.4375	.3750	.3750
57.	Wrist girth	.1875	.1250	.2500
58.	Cap curve	.9375	.6875	.6875

## 2. Brand B. (Style 3)

The variations in grading four sizes of the Misses' patterns in Brand B, Style 3 of the medium price group are given in Table XXVI.<sup>13</sup>

In the neck measurements on the blouse front of Brand B, the neck width of sizes 14 to 16 and 16 to 18 increased  $\frac{1}{8}$  inch. Size 18 to 20 increased  $\frac{3}{16}$  inch in the larger size. The neck depth had no variation between sizes 14 and 16. Size 16 to 18 had an increase of  $\frac{3}{16}$  inch and size 18 to 20 had an increase of  $\frac{1}{16}$  inch. The neck curve depth had no variations between sizes 14 to 16 and 16 to 18 but in size 18 to 20 there was a  $\frac{1}{8}$  inch greater measurement in size 18 than in size 20. The neck curve of size 14 to 16 increased  $\frac{1}{8}$  inch, of size 16 to 18 increased  $\frac{1}{4}$  inch, and of size 18 to 20 increased  $\frac{9}{16}$  inch.

In the width measurements on the blouse front the across the shoulder increased  $\frac{5}{16}$  inch between sizes 14 and 16 and sizes 18 and 20. Size 16 to 18 had an increase of  $\frac{1}{4}$  inch. The shoulder seam of sizes 14 to 16 and 16 to 18 increased  $\frac{1}{8}$  inch. In size 18 to 20, the shoulder seam increased  $\frac{3}{8}$  inch. The across chest width was  $\frac{7}{16}$  inch greater in size 16 than in size 14,  $\frac{1}{8}$  inch greater in size 18 than in size 16, and  $\frac{5}{16}$  inch greater in size 20 than in size 18. The bust width from size 14 to size 16 increased  $\frac{11}{16}$  inch, from size 16 to 18 increased  $\frac{5}{8}$  inch, and from size 18 to 20 increased  $\frac{3}{8}$  inch. The upper bust width varied  $\frac{9}{16}$  inch between sizes 14 and 16,  $\frac{5}{8}$  inch between size 16 and 18, and  $\frac{3}{8}$  inch between sizes 18 and 20. The waist width of size 16 was  $\frac{7}{16}$  inch greater than size 14, of size 18 was  $\frac{1}{2}$  inch greater than size 16, and of size 20 was  $\frac{3}{8}$  inch greater than size 18.

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13. Measurements are given in Appendix Table X.

The armhole depth on the blouse front was  $\frac{3}{16}$  inch greater in size 16 than in size 14 and  $\frac{5}{16}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively. The armhole width of size 16 was  $\frac{5}{16}$  inch greater than size 14, of size 18 was  $\frac{7}{16}$  inch greater than size 16, and sizes 18 to 20 had no variation. The armhole curve measurement had the same variation,  $\frac{1}{16}$  inch, between sizes 14 to 16, 16 to 18, and 18 to 20. The armhole curve increased  $\frac{5}{16}$  inch from size 14 to 16,  $\frac{11}{16}$  inch from size 16 to 18, and  $\frac{3}{8}$  inch from size 18 to 20.

In the length measurements on the blouse front, the center front length had the same increase,  $\frac{1}{2}$  inch, from size 14 to 16 and size 16 to 18. Size 18 to 20 had an increase of  $\frac{1}{16}$  inch. The full length had the same amount of variation between size 14 to 16 as the center front length. Sizes 16 to 18 and 18 to 20 increased  $\frac{11}{16}$  inch and  $\frac{1}{8}$  inch respectively. The slope of shoulder was  $\frac{11}{16}$  inch greater in size 16 than in size 14,  $\frac{9}{16}$  inch greater in size 18 than in size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The drop of shoulder had no variation between sizes 14 and 16, a  $\frac{1}{16}$  inch greater variation in size 16 than in size 18, and a  $\frac{1}{8}$  inch greater variation in size 20 than in size 18. The full side length had a variation of  $\frac{7}{16}$  inch from sizes 14 to 16 and a  $\frac{3}{8}$  inch variation from sizes 16 to 18 and 18 to 20. Size 16 was  $\frac{1}{16}$  inch greater than size 14, size 18 was  $\frac{1}{8}$  inch greater than size 16, and size 18 was  $\frac{1}{16}$  inch greater than size 20. The underarm length increased  $\frac{1}{16}$  inch from size 14 to 16, increased  $\frac{1}{8}$  inch from size 16 to 18, and decreased  $\frac{1}{16}$  inch from size 18 to 20.

The waist dart had no variation between sizes 14 to 16, increased 3 degrees from size 16 to size 18, and decreased 3 degrees from size 18 to size 20.



On the blouse back the neck width and neck curve decreased  $11/16$  inch from size 14 to size 16, increased  $13/16$  inch from size 16 to size 18, and increased  $3/16$  inch from size 18 to size 20. The neck depth had no variation between the measurements of sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $1/16$  inch in this measurement. The neck curve depth had no variation between the sizes measured.

In the width measurements on the blouse back, the across shoulder decreased  $13/16$  inch from size 14 to size 16, increased  $1\ 1/8$  inches from size 16 to size 18, and increased  $1/8$  inch from size 18 to size 20. The shoulder seam was  $1/8$  inch greater in size 16 than in size 14,  $1/4$  inch greater in size 18 than in size 16, and  $1/16$  inch less in size 20 than in size 18. The shoulder draft width was  $7/16$  inch less in size 16 than size 14,  $1\ 1/8$  inches greater in size 16 than size 18, and  $1/16$  inch greater in size 20 than in size 18. Across the chest had a  $1/2$  inch less measurement in size 16 than in size 14, a 1 inch greater measurement in size 18 than in size 16, and a  $1/4$  inch greater measurement in size 20 than in size 18. As in the other width measurements, the bust width of size 16 had a measurement that was smaller by  $5/16$  inch than size 14. Size 18 was  $1\ 3/8$  inches greater than size 16 and size 20 was  $1/2$  inch greater than size 18. The upper bust width decreased  $5/16$  inch from size 14 to 16, increased  $1\ 7/16$  inches from size 16 to 18, and increased  $5/16$  inch from size 18 to 20. The waist width decreased the same amount,  $3/8$  inch from size 14 to 16 and size 18 to 20. Size 16 to 18 increased  $1\ 3/8$  inches.

The armhole width on the blouse back was  $1/2$  inch greater in size 16 than in size 14 and  $5/16$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively. The amount of variation in the armhole

depth between the different sizes increased as the size increased. Size 16 was  $\frac{1}{16}$  inch greater than size 14, size 18 was  $\frac{1}{4}$  inch greater than size 16, and size 20 was  $\frac{5}{16}$  inch greater than size 18. The armhole curve measurements increased  $\frac{1}{8}$  inch from size 14 to 16,  $\frac{9}{16}$  inch from size 16 to 18, and  $\frac{3}{8}$  inch from size 18 to 20. The amount of variation in the armhole curve depth between the different sizes decreased as the size increased. The increase from size 14 to 16 was  $\frac{1}{8}$  inch, from size 16 to 18 was  $\frac{1}{16}$  inch, and from size 18 to 20 there was no variation.

In the length measurements on the blouse back, the center back length increased  $\frac{3}{16}$  inch from size 14 to size 16,  $\frac{9}{16}$  inch from size 16 to size 18, and  $\frac{1}{4}$  inch from size 18 to size 20. The full length increased the same amount between sizes 14 to 16 and 16 to 18 as the center front length did. Size 18 to 20 increased  $\frac{3}{8}$  inch in the full length measurement. While the slope of shoulder decreased 1 inch from size 14 to 16, size 16 to 18 increased  $1\frac{3}{8}$  inches. Size 18 to 20 increased  $\frac{3}{16}$  inch. The drop of shoulder increased  $\frac{1}{8}$  inch from size 14 to 16, had no increase from size 16 to 18, and increased  $\frac{1}{4}$  inch from size 18 to 20. The full side length was  $\frac{3}{16}$  inch greater in size 16 than in size 14,  $\frac{7}{16}$  inch greater in size 18 than in size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The underarm length of size 16 was  $\frac{1}{16}$  inch greater than size 14, of size 18 was  $\frac{3}{16}$  inch greater than size 16, and of size 20 was  $\frac{1}{16}$  inch less than size 18.

The waist dart on the blouse back had no variation between sizes 14 and 16. Size 18 was  $\frac{1}{2}$  degree less than size 16, and size 20 was  $\frac{1}{2}$  degree greater than size 18.

In the sleeve measurements, the bicep width increased  $\frac{7}{16}$  inch from size 14 to 16 and  $\frac{5}{6}$  inch from sizes 16 to 18 and 18 to 20. The

sleeve cap height was  $\frac{1}{8}$  inch greater in size 16 than in size 14,  $\frac{1}{4}$  inch greater in size 18 than in size 16, and  $\frac{3}{8}$  inch greater in size 20 than in size 18. The cap curve increased  $\frac{1}{2}$  inch from size 14 to 16,  $\frac{15}{16}$  inch from size 16 to 18, and  $\frac{13}{16}$  inch from size 18 to 20. No other measurements were made on the sleeve of Brand B.

The following likenesses and differences were noted in the grading of sizes 14, 16, 18, and 20 in Brand B. In the neck measurements, there was no regularity in the variations in the different sizes on the blouse front and back. In the neck depth, size 14 to 16 had no variation on the blouse front or back, and size 18 to 20 had an increase of  $\frac{1}{16}$  inch on the blouse front and back. In all sizes on the blouse back and sizes 14 to 16 and 16 to 18 on the blouse front there was no variation in the neck curve depth measurement between the different sizes. From size 18 to 20 was the exception with a  $\frac{1}{8}$  inch greater measurement in size 18 than in size 20. There was no regularity in the variations of the neck curve measurements on the blouse front and back. The total neck curve measurement was  $1\frac{1}{8}$  inches less in size 16 than in size 14,  $2\frac{1}{8}$  inches greater in size 18 than in size 16, and  $1\frac{1}{2}$  inches greater in size 20 than in size 18.

Likenesses and differences noted in the width measurements were as follows. Unusual was the greater measurement of size 14 than size 16 on the blouse back in all width measurements except the shoulder seam. On the blouse front the amount of variation in the width measurements between these two sizes was similar to the variation between the other sizes. The greater variation between sizes 16 to 18 was extremely greater than between sizes 18 and 20. The shoulder seam width increased the same amount,  $\frac{1}{8}$  inch, between sizes 14 and 16 on the blouse front and

back. The total upper bust measurement increased  $1/2$  inch from size 14 to 16,  $4\ 1/8$  inches from size 16 to 18, and  $1\ 3/8$  inches from size 18 to 20. The total bust width was  $1\ 1/2$  inches greater in size 14 than in size 16, 4 inches greater in size 18 than in size 16, and  $1\ 3/4$  inches greater in size 20 than in size 18. The total waist width increased  $1/8$  inch from size 14 to 16,  $3\ 3/4$  inches from sizes 16 to 18, and had no increase from size 18 to 20.

The following likenesses and differences were noted in armhole measurements. The armhole depth had the same variation between sizes 18 and 20 on the blouse front and back. There was no regularity of the variations between measurements of the armhole width on the blouse front and back. Though the armhole curve depth had a regular increase of  $1/16$  inch between all measurements on the blouse front, there was a decrease in the variation of this measurement as the size increased on the blouse back. Size 16 to 18 had an increase of  $1/16$  inch on the blouse front and back in the armhole curve depth measurement. In the armhole curve measurement, size 20 was  $3/8$  inch greater than size 18 on the blouse front and back. The total armhole curve measurement increased  $7/16$  inch from size 14 to size 16,  $1\ 1/4$  inches from size 16 to size 18, and  $3/4$  inch from size 18 to size 20.

Likenesses and differences noted in the length measurements included the following. Size 16 to 18 had the greatest amount of variation in grading different sizes in the center front and center back lengths and full length on the blouse front and back. The slope of shoulder had the same amount of variation between sizes 18 and 20 on the blouse front and back. There was no regularity in the amount of variations of the different sizes in the drop of shoulder and full side

length. Size 16 was  $1/16$  inch greater than size 14 on the blouse front and back in the underarm length. In the same measurement, size 20 was  $1/16$  inch less than size 18 on the blouse front and back.

Likenesses and differences in grading the waist dart of Brand B were as follows. Sizes 14 to 16 had no variation in measurements of the waist dart on the blouse front or back. While the waist dart on the blouse front increased 3 degrees from size 16 to size 18, on the blouse back it decreased  $1/2$  degree. The variation between sizes 18 and 20 was diametrically different by the same amount.

Generally, the greatest amount of variation in grading the different neck measurements was found in grading from size 16 to size 18. The width measurements on the blouse front had the greatest amount of variation between sizes 14 and 16. On the blouse back, size 16 to 18 still had the greatest amount of variation in grading. It should not be forgotten that size 14 to 16 had the unusual decrease in the grading of all waist width measurements on the blouse back but the shoulder seam. The total bust width increased  $1\ 1/2$  inches from size 14 to size 16, 4 inches from size 16 to size 18, and  $1\ 3/4$  inches from size 18 to size 20. The  $1\ 1/2$  inches variation in grading size 14 to 16 and the  $1\ 3/4$  inches variation in grading size 18 to 20 were less than the 2 inches suggested by the Bureau of Standards as the amount of variation in the bust measurement between different sizes of Misses' patterns. The amount of variation used in grading the waist measurement in different sizes did not conform to the suggestions made by the Bureau of Standards. The actual measurements showed a variation of  $1/8$  inch between sizes 14 and 16 as compared with  $1\ 1/2$  inches which was suggested. Between sizes 16 and 18 the actual variation was  $3\ 3/4$  inches more than the 2 inches

suggested for grading these sizes. Size 18 to 20 had no variation in the grading of the total waist width as compared to the 2 inches suggested by the Bureau of Standards. According to the statement received from the company producing these patterns, Commercial Standard CS13-44 was used as a basis for grading all patterns except those for Juniors. The designs used for this study were not the group designated as Junior patterns and should conform to the Bureau of Standards recommendations. Size 16 to 18 had the greatest amount of variation in grading length measurements on the blouse back of all the patterns measured. Size 14 to 16 had the greatest amount of variation in grading the length measurements on the blouse front except in the case of the underarm length, full length, and center front length. Sizes 14 to 16 and 16 to 18 had the same amount of variation in grading the center front length. Size 16 to 18 had the greater amount of variation in grading the underarm length and full length. The amount of variation used in grading the cap curve and total armhole curve of different sizes appeared to be related. From size 14 to size 16 the cap curve increased  $1/2$  inch and the total armhole curve increased  $7/16$  inch. From size 16 to size 18 the cap curve increased  $15/16$  inch and the total armhole curve increased  $1\ 1/4$  inches. From size 18 to size 20, the cap curve increased  $13/16$  inch and the total armhole curve increased  $3/4$  inch. In the grading of all sizes, except size 14 to 16, the amount of variation used in grading was greater in the total armhole curve than in the cap curve. These findings indicated an equal variation in grading the same measurement in different sizes in one measurement on the blouse front and one measurement on the blouse back. The measurements with the same amount of variation were not the same measurements on the blouse front and back.

This made a total of two measurements on Brand B that had the same amount of variation in grading different sizes.

TABLE XXVI

VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
1.	Center front length	.5000	.5000	.0625
2.	Neck width	.1250	.1250	.1875
3.	Neck depth	.0000	.1875	.0625
4.	Across shoulder	.3125	.2500	.3125
5.	Slope of shoulder	.6875	.5625	.1875
6.	Drop of shoulder	.0000	- .0625	.1250
7.	Shoulder seam	.1250	.1250	.3750
8.	Across chest	.4375	.1250	.3125
9.	Bust width	.6875	.6250	.3750
10.	Upper bust width	.5625	.6250	.3750
11.	Full side length	.4375	.3750	.3750
12.	Underarm length	.0625	.1250	- .0625
13.	Waist width	.4375	.5000	.3750
14.	Armhole curve	.3125	.6875	.3750
15.	Height of bust	.1875	.3125	.0000
16.	Armhole curve depth	.0625	.0625	.0625
17.	Neck curve depth	.0000	.0000	- .1250
18.	Bust point width	.2500	.0625	.7500
19.	Full length	.5000	.6875	.1250
20.	Neck curve	.1250	.2500	.5625
21.	Dart point to bust point	--**	--	--
22.	Armhole depth	.1875	.3125	.3125
23.	Armhole width	.3125	.4375	.0000
24.	Shoulder to waist	.3750	.7500	.1250
25.	Waist dart	.00	3.00	- 3.00

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.



TABLE XXVI (Continued)

VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
26.	Center back length	.1875	.5625	.2500
27.	Neck width	- .6875	.8125	.1875
28.	Neck depth	.0000	.0000	.0625
29.	Across shoulder	- .8125	1.1250	.1250
30.	Slope of shoulder	- 1.0000	1.3750	.1875
31.	Drop of shoulder	.1250	.0000	.2500
32.	Shoulder seam	.1250	.2500	- .0625
33.	Shoulder draft width	- .4375	1.1250	.0625
34.	Across chest	- .5000	1.0000	.2500
35.	Bust width	- .3125	1.3750	.5000
36.	Upper bust width	- .3125	1.4375	.3125
37.	Full side length	.1875	.4375	.1875
38.	Underarm length	.0625	.1875	- .0625
39.	Waist width	- .3750	1.3750	- .3750
40.	Armhole curve	.1250	.5625	.3750
41.	Full length	.1875	.5625	.3750
42.	Neck curve	- .6875	.8125	.1875
43.	Neck curve depth	.0000	.0000	.0000
44.	Armhole curve depth	.1250	.0625	.0000
45.	Armhole depth	.0625	.2500	.3125
46.	Armhole width	.5000	.3125	.3125
47.	Shoulder dart	- .5°	.0°	.0°
48.	Neck dart	--**	--	--
49.	Waist dart	.0°	- .5°	.5°

TABLE XXVI (Continued)

VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
50.	Bicep	.4375	.6250	.6250
51.	Overarm length	--**	--	--
52.	Sleeve cap height	.1250	.2500	.3750
53.	Overarm to elbow	--**	--	--
54.	Overarm length	--**	--	--
55.	Overarm length from bicep to elbow	--**	--	--
56.	Elbow girth	--**	--	--
57.	Wrist girth	--**	--	--
58.	Cap curve	.5000	.9375	.8125

### 3. Brand C. (Style 3)

The variations in grading four sizes of the Misses' patterns in Brand C, Style 3, of the medium price group are given in Table XXVII.<sup>14</sup>

In the neck measurements on the blouse front of Brand C, the neck width of size 16 was  $\frac{1}{16}$  inch greater than size 14, of size 18 was  $\frac{1}{4}$  inch greater than size 16, and size 20 was  $\frac{1}{8}$  inch greater than size 18. The neck depth was  $\frac{5}{16}$  inch greater in size 16 than size 14,  $\frac{1}{16}$  inch greater in size 18 than in size 16, and  $\frac{1}{16}$  inch less in size 20 than in size 18. The neck curve increased  $\frac{1}{16}$  inch from sizes 14 to 16 and 18 to 20. Size 16 to 18 increased  $\frac{3}{16}$  inch. The neck curve depth had no variation in the measurements of sizes 14 and 16. The variation from sizes 16 to 18 and 18 to 20 was  $\frac{1}{16}$  inch.

In the width measurements on the blouse front the across shoulder increased  $\frac{3}{16}$  inch from size 14 to size 16,  $\frac{5}{16}$  inch from size 16 to size 18, and  $\frac{1}{4}$  inch from size 18 to size 20. The shoulder seam increased  $\frac{1}{16}$  inch from sizes 14 to 16 and 18 to 20. Size 16 to 18 increased  $\frac{3}{16}$  inch in the shoulder seam width. The across chest measurement varied  $\frac{11}{16}$  inch between sizes 14 and 16,  $\frac{7}{16}$  inch between sizes 16 and 18, and  $\frac{1}{4}$  inch between sizes 18 and 20. The bust width had a variation of  $\frac{9}{16}$  inch from size 14 to size 16,  $\frac{3}{8}$  inch from size 16 to size 18, and  $\frac{7}{16}$  inch from size 18 to size 20. There was a  $\frac{1}{2}$  inch variation in the upper bust width from size 14 to 16 and size 16 to 18 and a  $\frac{7}{16}$  inch variation in this measurement from size 18 to 20. The waist width increased  $\frac{3}{8}$  inch between sizes 14 to 16,  $\frac{9}{16}$  inch between sizes 16 and 18, and  $\frac{1}{2}$  inch between sizes 18 and 20.

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14. Measurements are given in Appendix Table XI.

The armhole depth on the blouse front was  $\frac{3}{16}$  inch greater in size 16 than in size 14,  $\frac{3}{16}$  inch greater in size 18 than in size 16, and  $\frac{1}{16}$  inch greater in size 20 than in size 18. The armhole width increased  $\frac{3}{8}$  inch in sizes 14 to 16,  $\frac{1}{8}$  inch in sizes 16 to 18, and  $\frac{3}{16}$  inch in sizes 18 to 20. The armhole curve depth increased  $\frac{1}{16}$  inch from sizes 14 to 16 and 18 to 20. From size 16 to 18 increased  $\frac{1}{8}$  inch in the armhole curve depth. The armhole curve was  $\frac{1}{2}$  inch greater in size 16 than in size 14,  $\frac{1}{8}$  inch greater in size 18 than size 16, and  $\frac{1}{4}$  inch greater in size 20 than size 18.

In the length measurements on the blouse front, the center front length had the same increase,  $\frac{1}{4}$  inch, from size 14 to 16 and size 16 to 18. Size 18 to 20 had an increase of  $\frac{3}{8}$  inch. The full length was  $\frac{3}{8}$  inch greater in size 16 than in size 14,  $\frac{7}{16}$  inch greater in size 18 than in size 16, and  $\frac{1}{4}$  inch greater in size 20 than in size 18. The slope of shoulder increased  $\frac{9}{16}$  inch from size 14 to size 16,  $\frac{5}{16}$  inch from size 16 to size 18, and  $\frac{1}{4}$  inch from size 18 to size 20. The drop of shoulder decreased  $\frac{3}{16}$  inch from size 14 to size 16, increased  $\frac{3}{16}$  inch from size 16 to size 18, and increased  $\frac{1}{16}$  inch from size 18 to size 20. The full side length had a variation of  $\frac{7}{16}$  inch from size 14 to 16,  $\frac{1}{16}$  inch from size 16 to 18, and no variation from size 18 to 20. The underarm length was  $\frac{1}{16}$  inch greater in size 16 than size 14. Sizes 16 to 18 and 18 to 20 had no variation in measurements.

The waist dart was 1 degree less in size 16 than size 14,  $\frac{1}{2}$  degree less in size 18 than size 16, and 1 degree less in size 20 than size 18.

On the blouse back the neck width had no variation between sizes 14 and 16. From size 16 to 18 increased  $\frac{3}{16}$  inch and from size 18 to

20 increased  $1/16$  inch in the neck width measurement. The neck depth had  $1/16$  inch greater measurement in size 16 than in size 14,  $1\ 1/16$  inches greater measurement in size 18 than in size 16 and  $1\ 1/8$  inches less measurement in size 20 than in size 18. The neck curve depth increased  $1/16$  inch from size 14 to 16, had no variation between sizes 16 to 18, and decreased  $1/16$  inch from size 18 to size 20. The neck curve had  $1/16$  inch greater measurement in size 16 than in size 14,  $1/4$  inch greater measurement in size 18 than in size 16, and no variation between the measurements in sizes 18 and 20.

In the width measurements on the blouse back, the across shoulder increased  $1/8$  inch from size 14 to size 16,  $5/16$  inch from size 16 to size 18, and  $3/16$  inch from size 18 to size 20. The shoulder seam increased the same amount,  $1/8$  inch, in the grading of all sizes that were measured. The shoulder draft width varied  $1/8$  inch from size 14 to 16, had no variation from size 16 to 18, and varied  $1/2$  inch from size 18 to 20. The across chest width had a  $3/16$  inch variation from size 14 to 16 and size 18 to 20. There was a  $3/8$  inch variation from size 16 to 18. The bust width was  $3/8$  inch greater in size 16 than size 14,  $5/8$  inch greater in size 18 than size 16, and  $1/2$  inch greater in size 20 than size 18. The upper bust width had the same variation as the bust width from size 14 to 16. The variation between sizes 16 to 18 and 18 to 20 was  $9/16$  inch. The waist width increased  $1/4$  inch from size 14 to 16,  $9/16$  inch from size 16 to 18, and  $1/8$  inch from size 18 to 20.

The armhole width on the blouse back increased  $1/4$  inch from sizes 14 to 16 and 16 to 18. There was a  $5/16$  inch increase in the measurement of size 18 than size 20. The armhole depth variation between sizes 14 and 16 was  $5/16$  inch. From sizes 16 to 18 and 18 to 20 increased

$\frac{3}{16}$  inch. While size 16 was  $\frac{1}{16}$  inch greater than size 14, size 18 was  $\frac{1}{16}$  inch less than size 16 and sizes 18 and 20 had the same measurement. The armhole curve measurements increased  $\frac{3}{8}$  inch from size 14 to 16,  $\frac{5}{16}$  inch from size 16 to 18, and  $\frac{7}{16}$  inch from size 18 to 20.

In the length measurements on the blouse back, the center back length increased  $\frac{5}{16}$  inch from size 14 to 16,  $\frac{3}{16}$  inch from size 16 to 18, and  $\frac{1}{4}$  inch from size 18 to 20. The full length increased  $\frac{13}{16}$  inch from size 14 to 16,  $\frac{5}{16}$  inch from size 16 to 18, and  $\frac{3}{16}$  inch from size 18 to 20. There was no variation between sizes 14 and 16 in the slope of shoulder measurement, a  $\frac{7}{16}$  inch variation between sizes 16 and 18, and  $\frac{1}{8}$  inch variation between sizes 18 and 20. Size 18 was greater than size 16, and size 20 was greater than size 18. In the drop of shoulder measurement there was no variation from sizes 14 to 16 and 18 to 20. Size 18 was  $\frac{1}{16}$  inch greater than size 16. The full side length had a greater measurement of  $\frac{3}{8}$  inch in size 16 than size 14,  $\frac{1}{16}$  inch in size 18 than size 16, and  $\frac{1}{4}$  inch in size 20 than size 18. The underarm length increased  $\frac{1}{8}$  inch from size 14 to 16, decreased  $\frac{1}{16}$  inch from size 16 to 18, and increased  $\frac{1}{16}$  inch from size 18 to 20.

The waist dart on the blouse back had unusual variations. Size 16 was  $1\frac{1}{2}$  degrees greater than size 14, size 18 was 1 degree less than size 16, and sizes 18 and 20 had no variation between the two sizes.

In the sleeve measurements, the bicep width increased  $\frac{3}{4}$  inch from size 14 to 16 and  $\frac{5}{8}$  inch from sizes 16 to 18 and 18 to 20. The overarm length was  $\frac{7}{16}$  inch greater in size 16 than size 14,  $\frac{3}{4}$  inch greater in size 18 than size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The sleeve cap height increased the same amount,  $\frac{3}{16}$  inch,

from sizes 14 to 16 and 16 to 18. Size 20 had a  $\frac{1}{4}$  inch greater sleeve cap height than size 18. The overarm to elbow increased  $\frac{5}{16}$  inch between sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $\frac{7}{16}$  inch in this measurement. Sizes 14 to 16 and 16 to 18 increased  $\frac{3}{16}$  inch in the overarm length measurement. In size 18 to 20 there was a  $\frac{1}{16}$  inch increase. The overarm length from bicep to elbow increased  $\frac{1}{4}$  inch from size 14 to 16,  $\frac{1}{16}$  inch from size 16 to 18, and  $\frac{3}{16}$  inch from size 18 to 20. The elbow girth had a variation of  $\frac{1}{2}$  inch between sizes 14 and 16,  $1\frac{7}{16}$  inches between sizes 16 and 18, and  $\frac{7}{16}$  inch between sizes 18 and 20. The large amount of variation between sizes 16 and 18 seemed unusual. The wrist girth increased  $\frac{1}{4}$  inch from size 14 to 16 and  $\frac{5}{16}$  inch from sizes 16 to 18 and 18 to 20. The cap curve had the greatest increase of  $\frac{15}{16}$  inch from size 16 to 18. From size 14 to 16 in this measurement increased  $\frac{13}{16}$  inch and from size 18 to 20 increased  $\frac{11}{16}$  inch.

The following likenesses and differences were noted in the grading of sizes 14, 16, 18, and 20 in Brand C. In the neck measurements, there was no regularity in the variations in the different sizes on the blouse front and back. The neck curve increased  $\frac{1}{16}$  inch on the blouse front and back from size 14 to 16. Size 16 to 18 had the greatest increase in the neck curve on the blouse front and back. Size 18 to 20 had the least increase on the blouse front and back. The total neck curve increased  $\frac{1}{4}$  inch from size 14 to 16,  $\frac{7}{8}$  inch from size 16 to 18, and  $\frac{1}{16}$  inch from size 18 to 20.

Likenesses and differences noted in the width measurements were as follows. The amount of variation between sizes 16 and 18 in the across shoulder measurement was the same,  $\frac{5}{16}$  inch, on the blouse front

and back. While the shoulder seam increased  $1/8$  inch between all sizes on the blouse back, on the blouse front there was a  $1/16$  inch variation from sizes 14 to 16 and 18 to 20. Across the chest had the greatest increase on the blouse front in all sizes. Size 18 to 20 had the least increase on the blouse front and back in the across chest width. The total bust width increased  $1\ 7/8$  inches from size 14 to 16, 2 inches from size 16 to 18, and  $1\ 7/8$  inches from size 18 to 20. The total upper bust width increased  $1\ 3/4$  inches from size 14 to 16,  $2\ 1/8$  inches from size 16 to 18, and 2 inches from size 18 to 20. The waist width increased the same amount,  $9/16$  inch, on the blouse front and back between sizes 16 and 18. The total waist width increased  $1\ 1/4$  inches from size 14 to 16,  $2\ 1/4$  inches from size 16 to 18, and  $1\ 1/4$  inches from size 18 to 20.

The following likenesses and differences were noted in armhole measurements. The armhole depth increased  $3/16$  inch on the blouse front and back between sizes 16 and 18. The armhole width had no regularity in the amount of variation between different sizes on the blouse front and back. The armhole curve depth had a  $1/16$  inch variation between sizes 14 and 16 on the blouse front and back. The total armhole curve increased  $1\ 3/4$  inches from size 14 to size 16,  $7/8$  inch from size 16 to 18, and  $1\ 3/8$  inches from size 18 to 20.

Likenesses and differences noted in the length measurements included the following. In the center back and full length measurements on the blouse back, the greatest amount of variation was between sizes 14 and 16. On the blouse front size 18 to 20 had the greatest amount of increase in the center front length and size 16 to 18 had the greatest amount of increase in the full length. While the slope of shoulder had



the greatest amount of variation between sizes 14 and 16 on the blouse front, on the blouse back there was no variation between these sizes. There was the least amount of variation between sizes 18 and 20 on the blouse front and back. There was no regularity in the measurements of the drop of shoulder between different sizes on the blouse front and back. The full side length was  $1/16$  inch greater in size 18 than size 16 on the blouse front and back. The amount of the variations between sizes in the underarm length had no regularity.

Likenesses and differences in grading the waist dart of Brand C were as follows. Size 14 to 16 increased  $1\ 1/2$  degrees on the blouse back but decreased 1 degree on the blouse front. Size 16 to 18 decreased 1 degree on the blouse back and  $1/2$  degree on the blouse front. Size 18 to 20 decreased 1 degree on the blouse front and had no variation in measurements on the blouse back.

Generally, the greatest amount of variation in grading the different neck measurements was found in grading from size 16 to 18 on the blouse back except in the neck curve depth measurement. On the blouse front, size 16 to 18 had the greatest amount of variation in neck measurements with the exception of the neck depth. The amount of variation in the neck depth on the blouse back was unusually high from size 16 to 18 and unusually low from size 18 to 20. All the blouse back width measurements had a greater variation between sizes 16 and 18. On the blouse front all width measurements except the bust and upper bust had a greater variation in grading size 16 to 18 than in grading sizes 14 to 16 and 18 to 20. In the bust width the greatest variation in grading was from size 14 to 16. In the upper bust width the variation in grading was the same between sizes 14 to 16 and 16 to 18. The amount of variation used

in grading the total bust and waist width from sizes 14 to 16 and 18 to 20 was less than the 2 inches suggested by the Bureau of Standards. According to the statement received from the company producing these patterns, Commercial Standard CS13-44 was used as a basis for grading all patterns. Sizes 16 to 18 had the greatest variation in grading the slope of shoulder and drop of shoulder on the blouse back. The full side length, underarm length, and full length had the greatest variation in grading between sizes 14 and 16 on the blouse back. On the blouse front size 14 to 16 had the greatest amount of variation in grading all length measurements except the center front length, and underarm length. The center front length had the greatest amount of variation from size 18 to 20 and the full length on the blouse front had the greatest amount of variation from size 16 to 18. There appeared to be no correlation between the amount of variation of the sleeve cap curve and the armhole curve. In the grading of all sizes, except size 16 to 18, the amount of variation used in grading was greater in the total armhole curve than in the cap curve. The armhole curve had the greatest variation between sizes 14 and 16 while the cap curve had the greatest variation between sizes 16 and 18. The least variation in the armhole curve was between sizes 16 and 18. The sleeve cap height and armhole depth on the blouse front and back had the same variation between sizes 16 and 18. Between sizes 14 and 16 the sleeve cap height and armhole depth on the blouse front had the same variation as between sizes 16 and 18. There appeared to be no correlation between the sleeve cap height and the armhole depth measurements of the blouse front and back in sizes 18 and 20. These findings indicated an equal variation in grading the same measurement in different sizes in no measurement on the blouse front, one measurement

on the blouse back, and no measurement on the sleeve. This made only one measurement on Brand C that had the same amount of variation in grading different sizes.

TABLE XXVII

VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
1.	Center front length	.2500	.2500	.3750
2.	Neck width	.0625	.2500	.1250
3.	Neck depth	.3125	.0625	- .0625
4.	Across shoulder	.1875	.3125	.2500
5.	Slope of shoulder	.5625	.3125	.2500
6.	Drop of shoulder	- .1875	.1875	.0625
7.	Shoulder seam	.0625	.1875	.0625
8.	Across chest	.6875	.4375	.2500
9.	Bust width	.5625	.3750	.4375
10.	Upper bust width	.5000	.5000	.4375
11.	Full side length	.4375	.0625	.0000
12.	Underarm length	.0625	.0000	.0000
13.	Waist width	.3750	.5625	.5000
14.	Armhole curve	.5000	.1250	.2500
15.	Height of bust	.1250	.1250	.2500
16.	Armhole curve depth	.0625	.1250	.0625
17.	Neck curve depth	.0000	.0625	.0625
18.	Bust point width	.3750	.1250	- 1.1875
19.	Full length	.3750	.4375	.2500
20.	Neck curve	.0625	.1875	.0625
21.	Dart point to bust point	--**	--	--
22.	Armhole depth	.1875	.1875	.0625
23.	Armhole width	.3750	.1250	.1875
24.	Shoulder to waist	.6250	.0625	.1875
25.	Waist dart	- 1.0°	- .5°	- 1.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.

TABLE XXVII (Continued)

VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
26.	Center back length	.3125	.1875	.2500
27.	Neck width	.0000	.1875	.0625
28.	Neck depth	.0625	1.0625	- 1.1250
29.	Across shoulder	.1250	.3125	.1875
30.	Slope of shoulder	.0000	.4375	.1250
31.	Drop of shoulder	.0000	.0625	.0000
32.	Shoulder seam	.1250	.1250	.1250
33.	Shoulder draft width	.1250	.0000	.5000
34.	Across chest	.1875	.3750	.1875
35.	Bust width	.3750	.6250	.5000
36.	Upper bust width	.3750	.5625	.5625
37.	Full side length	.3750	.0625	.2500
38.	Underarm length	.1250	- .0625	.0625
39.	Waist width	.2500	.5625	.1250
40.	Armhole curve	.3750	.3125	.4375
41.	Full length	.8125	.3125	.1875
42.	Neck curve	.0625	.2500	.0000
43.	Neck curve depth	.0625	.0000	- .0625
44.	Armhole curve depth	.0625	- .0625	.0000
45.	Armhole depth	.3125	.1875	.1875
46.	Armhole width	.2500	.2500	.3125
47.	Shoulder dart	---**	---	---
48.	Neck dart	.5°	- 1.0°	.5°
49.	Waist dart	1.5°	- 1.0°	.0°

TABLE XXVII (Continued)

VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
50.	Bicep	.7500	.6250	.6250
51.	Overarm length	.4375	.7500	.1875
52.	Sleeve cap height	.1875	.1875	.2500
53.	Overarm to elbow	.3125	.3125	.4375
54.	Overarm length	.1875	.1875	.0625
55.	Overarm length from bicep to elbow	.2500	.0625	.1875
56.	Elbow girth	.5000	1.4375	.4375
57.	Wrist girth	.2500	.3125	.3125
58.	Cap curve	.8125	.9375	.6875

## 4. Brand H. (Style 3)

The variations in grading four sizes of the Misses' patterns in Brand H, Style 3, of the medium price group are given in Table XXVIII.<sup>15</sup>

In the neck measurements on the blouse front of Brand H, the neck width of size 16 was  $\frac{1}{8}$  inch greater than size 14, of size 18 was  $\frac{1}{16}$  inch greater than size 16, and of size 20 was  $\frac{3}{16}$  inch greater than size 18. The neck depth was  $\frac{1}{8}$  inch greater in size 16 than size 14,  $\frac{1}{16}$  inch less in size 18 than size 16, and  $\frac{1}{16}$  inch greater in size 20 than size 18. The neck curve depth had no variation between sizes 14 to 16 and 16 to 18, but from size 18 to 20 it increased  $\frac{1}{8}$  inch. The neck curve increased  $\frac{1}{8}$  inch from size 14 to 16,  $\frac{3}{16}$  inch from size 16 to 18, and  $\frac{1}{16}$  inch from size 18 to 20.

In the width measurements on the blouse front, the across shoulder had an increase of  $1\frac{3}{8}$  inches from size 14 to size 16, a decrease of  $\frac{7}{8}$  inch from size 16 to 18, and an increase of  $\frac{1}{16}$  inch from size 18 to 20. In the shoulder seam measurement there was a variation of  $\frac{3}{16}$  inch between sizes 14 and 16, no variation between sizes 16 and 18, and  $\frac{1}{16}$  inch variation between sizes 18 and 20. The across chest measurement varied  $\frac{1}{4}$  inch from size 14 to size 16,  $\frac{1}{8}$  inch from size 16 to size 18, and  $\frac{3}{16}$  inch from size 18 to size 20. The bust width increased  $\frac{11}{16}$  inch from size 14 to 16,  $\frac{1}{8}$  inch from size 16 to 18, and  $\frac{1}{2}$  inch from size 18 to 20. The upper bust width had an increase of  $\frac{9}{16}$  inch from size 14 to size 16,  $\frac{3}{8}$  inch from size 16 to size 18, and  $\frac{1}{2}$  inch from size 18 to size 20. The waist width had an unusual increase

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15. Measurements are given in Appendix Table XII.

of  $2 \frac{13}{16}$  inches from sizes 14 to 16 and an unusual decrease of  $1 \frac{15}{16}$  inches from size 16 to 18. There was a  $\frac{9}{16}$  inch greater measurement in size 20 than size 18.

The armhole depth on the blouse front was  $\frac{1}{8}$  inch greater in size 16 than size 14 and  $\frac{1}{16}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively. The armhole width increased  $\frac{3}{16}$  inch from size 14 to size 16,  $\frac{1}{4}$  inch from size 16 to size 18, and  $\frac{3}{8}$  inch from size 18 to size 20. The armhole curve depth had an increase of  $\frac{1}{4}$  inch from size 14 to 16, a decrease of  $\frac{1}{4}$  inch from size 16 to 18, and an increase of  $\frac{1}{16}$  inch from size 18 to 20. The armhole curve was  $\frac{1}{2}$  inch greater in size 16 than in size 14 and  $\frac{1}{4}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively.

In the length measurements on the blouse front, the center front length increased  $\frac{1}{4}$  inch from size 14 to size 16 and size 16 to size 18. There was an increase of  $\frac{1}{16}$  inch from size 18 to size 20. The full length was  $\frac{3}{8}$  inch greater in size 16 than size 14,  $\frac{1}{8}$  inch greater in size 18 than size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The slope of shoulder increased  $\frac{9}{16}$  inch from size 14 to 16,  $\frac{1}{4}$  inch from size 16 to 18, and  $\frac{1}{8}$  inch from size 18 to 20. The drop of shoulder decreased  $\frac{1}{16}$  inch from sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $\frac{1}{16}$  inch. The full side length was  $\frac{3}{16}$  inch greater in size 16 than in size 14, 1 inch greater in size 18 than in size 16, and  $\frac{3}{8}$  inch greater in size 20 than in size 18. The underarm length from size 14 to 16 decreased  $\frac{11}{16}$  inch. Size 16 to 18 increased  $1 \frac{1}{16}$  inches, and size 18 to 20 increased  $\frac{1}{16}$  inch.

The waist dart was  $8 \frac{1}{2}$  degrees greater in size 16 than in size 14, 9 degrees less in size 18 than in size 16, and 1 degree less in size



of  $2 \frac{13}{16}$  inches from sizes 14 to 16 and an unusual decrease of  $1 \frac{15}{16}$  inches from size 16 to 18. There was a  $\frac{9}{16}$  inch greater measurement in size 20 than size 18.

The armhole depth on the blouse front was  $\frac{1}{8}$  inch greater in size 16 than size 14 and  $\frac{1}{16}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively. The armhole width increased  $\frac{3}{16}$  inch from size 14 to size 16,  $\frac{1}{4}$  inch from size 16 to size 18, and  $\frac{3}{8}$  inch from size 18 to size 20. The armhole curve depth had an increase of  $\frac{1}{4}$  inch from size 14 to 16, a decrease of  $\frac{1}{4}$  inch from size 16 to 18, and an increase of  $\frac{1}{16}$  inch from size 18 to 20. The armhole curve was  $\frac{1}{2}$  inch greater in size 16 than in size 14 and  $\frac{1}{4}$  inch greater in sizes 18 and 20 than in sizes 16 and 18 respectively.

In the length measurements on the blouse front, the center front length increased  $\frac{1}{4}$  inch from size 14 to size 16 and size 16 to size 18. There was an increase of  $\frac{1}{16}$  inch from size 18 to size 20. The full length was  $\frac{3}{8}$  inch greater in size 16 than size 14,  $\frac{1}{8}$  inch greater in size 18 than size 16, and  $\frac{3}{16}$  inch greater in size 20 than in size 18. The slope of shoulder increased  $\frac{9}{16}$  inch from size 14 to 16,  $\frac{1}{4}$  inch from size 16 to 18, and  $\frac{1}{8}$  inch from size 18 to 20. The drop of shoulder decreased  $\frac{1}{16}$  inch from sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $\frac{1}{16}$  inch. The full side length was  $\frac{3}{16}$  inch greater in size 16 than in size 14, 1 inch greater in size 18 than in size 16, and  $\frac{3}{8}$  inch greater in size 20 than in size 18. The underarm length from size 14 to 16 decreased  $\frac{11}{16}$  inch. Size 16 to 18 increased  $1 \frac{1}{16}$  inches, and size 18 to 20 increased  $\frac{1}{16}$  inch.

The waist dart was  $8 \frac{1}{2}$  degrees greater in size 16 than in size 14, 9 degrees less in size 18 than in size 16, and 1 degree less in size

20 than in size 18.

On the blouse back the neck width had a  $\frac{1}{8}$  inch increase from sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $\frac{1}{16}$  inch. There was no variation between sizes 14 and 16 in neck depth. From size 16 to 18 the neck depth decreased  $\frac{1}{16}$  inch, and from size 18 to 20 it increased  $\frac{1}{16}$  inch. There was no variation in the neck curve depth in the sizes measured. In the neck curve there was a variation of  $\frac{3}{16}$  inch between sizes 14 and 16,  $\frac{1}{8}$  inch between sizes 16 and 18, and  $\frac{1}{16}$  inch between sizes 18 and 20.

In the width measurements on the blouse back, the across shoulder measurement increased  $\frac{7}{16}$  inch from size 14 to 16 and  $\frac{1}{8}$  inch from sizes 16 to 18 and 18 to 20. The shoulder seam had a variation of  $\frac{3}{16}$  inch between sizes 14 and 16, no variation between sizes 16 and 18, and  $\frac{1}{16}$  inch variation between sizes 18 and 20. The shoulder draft width was  $\frac{9}{16}$  inch greater in size 16 than size 14,  $\frac{3}{16}$  inch greater in size 18 than size 16, and  $\frac{1}{8}$  inch greater in size 20 than size 18. The across chest measurement variation decreased as the size increased by the same amount between each size. Size 16 was  $\frac{3}{8}$  inch greater than size 14, size 18 was  $\frac{1}{4}$  inch greater than size 16, and size 20 was  $\frac{1}{8}$  inch greater than size 18. The bust width increased  $\frac{1}{2}$  inch from size 14 to size 16,  $\frac{3}{8}$  inch from size 16 to size 18, and  $\frac{11}{16}$  inch from size 18 to size 20. The upper bust width increased  $\frac{1}{2}$  inch from sizes 14 to 16 and 16 to 18. Size 18 to size 20 increased  $\frac{7}{16}$  inch in this measurement. In the waist width there was a  $\frac{1}{2}$  inch increase from size 14 to 16 and size 18 to 20. Size 16 to 18 increased  $\frac{3}{8}$  inch in this measurement.

The armhole width on the blouse back was  $\frac{1}{8}$  inch greater in

size 16 than size 14,  $\frac{1}{4}$  inch greater in size 18 than size 16, and  $\frac{5}{16}$  inch greater in size 20 than size 18. This measurement variation increased as the size increased. The armhole depth variation decreased as the size increased. The measurement of size 16 was  $\frac{1}{4}$  inch greater than size 14, of size 18 was  $\frac{3}{16}$  inch greater than size 16, and of size 20 was  $\frac{1}{8}$  inch greater than size 18. The armhole curve depth decreased  $\frac{1}{16}$  inch from size 14 to size 16, increased  $\frac{1}{8}$  inch from size 16 to size 18, and had no variation in the measurements of size 18 and size 20. The armhole curve measurement had a variation of  $\frac{3}{8}$  inch between sizes 14 and 16,  $\frac{1}{4}$  inch between sizes 16 and 18, and  $\frac{5}{16}$  inch between sizes 18 and 20.

In the length measurements on the blouse back, the center back length increased  $\frac{3}{8}$  inch from sizes 14 to 16 and 16 to 18 and  $\frac{1}{8}$  inch from size 18 to 20. The full length increased  $\frac{5}{16}$  inch from sizes 14 to 16 and 16 to 18. In size 20 there was a  $\frac{1}{4}$  inch greater measurement than in size 18. There was a  $\frac{1}{16}$  inch variation from size 14 to size 16, a  $\frac{3}{8}$  inch variation from size 16 to size 18, and a  $\frac{5}{16}$  inch variation from size 18 to size 20. There was no variation in the drop of shoulder between sizes 14 to 16 and 18 to 20. The variation from size 16 to size 18 was  $\frac{1}{16}$  inch. The full side length had a measurement that was  $\frac{5}{16}$  inch greater in size 16 than size 14,  $\frac{7}{16}$  inch greater in size 18 than size 16, and  $\frac{1}{4}$  inch greater in size 20 than in size 18. The underarm length increased  $\frac{3}{16}$  inch from size 14 to 16 and  $\frac{1}{8}$  inch from sizes 16 to 18 and 18 to 20.

The waist dart on the blouse back had a  $\frac{1}{2}$  degree variation between sizes 14 and 16 and no variation between sizes 16 to 18 and 18 to 20. The neck dart increased  $\frac{1}{2}$  degree from size 14 to size 16,

decreased 1 degree from size 16 to size 18, and increased  $1/2$  degree from size 18 to size 20.

In the sleeve measurements, the bicep width increased  $7/16$  inch from sizes 14 to 16 and 16 to 18 and  $1/2$  inch from size 18 to 20. The overarm length increased  $1/2$  inch from size 14 to 16,  $5/16$  inch from size 16 to 18, and  $3/8$  inch from size 18 to 20. The sleeve cap height was  $3/16$  inch greater in size 16 than size 14 and  $1/8$  inch greater in sizes 18 and 20 than sizes 16 and 18 respectively. The overarm to elbow increased  $1/4$  inch from size 14 to 16,  $5/16$  inch from size 16 to 18, and  $1/8$  inch from size 18 to 20. The overarm length was  $3/8$  inch greater in size 16 than size 14,  $1/8$  inch greater in size 18 than size 16, and  $1/4$  inch greater in size 20 than size 18. The overarm length from bicep to elbow increased  $1/8$  inch from sizes 14 to 16 and 16 to 18. Size 18 to 20 increased  $1/16$  inch in this measurement. The elbow girth had a variation of  $7/16$  inch between sizes 14 and 16,  $1/4$  inch between sizes 16 and 18, and  $3/8$  inch between sizes 18 and 20. The wrist girth variation was  $5/16$  inch from size 14 to 16 and  $1/4$  inch from sizes 16 to 18 and 18 to 20. The cap curve measurement increased  $3/4$  inch from size 14 to size 16,  $7/16$  inch from size 16 to size 18, and  $11/16$  inch from size 18 to size 20.

The following likenesses and differences were noted in the grading of sizes 14, 16, 18, and 20 in Brand H. In the neck measurements, there was an increase from size 14 to 16 of  $1/8$  inch on the blouse front and back in the neck width measurement. On the blouse front and back the neck depth measurement decreased  $1/16$  inch from size 16 to 18 and increased  $1/16$  inch from size 18 to 20. While there was no variation in the neck curve depth measurement of sizes 14 to 16 and 16 to 18 on the

blouse front and back, from size 18 to 20 had no variation on the blouse back and a  $\frac{1}{8}$  inch variation on the blouse front. The neck curve variation between the measurements of size 14 to size 16 on the blouse back was  $\frac{3}{16}$  inch and on the blouse front was  $\frac{1}{8}$  inch. The variation between the measurements of sizes 16 and 18 was diametrically different from sizes 14 and 16 by the same amount. There was the same amount of variation between sizes 18 and 20 on the blouse front and back in the neck curve measurement. In the total neck curve measurement there was an increase of  $\frac{5}{8}$  inch from size 14 to size 16,  $\frac{5}{8}$  inch from size 16 to size 18, and  $\frac{1}{4}$  inch from size 18 to size 20.

Likenesses and differences noted in the width measurements were as follows. The amount of variation in all waist width measurements was greater on the blouse front and back between sizes 14 and 16 except in the bust width on the blouse back. This measurement was greater between sizes 18 and 20. The extreme increase between sizes 14 and 16 in the across shoulder measurement on the blouse front and extreme decrease between sizes 16 and 18 in this measurement seemed unusual. The extreme increase in the waist width measurement between sizes 14 and 16 and extreme decrease between sizes 16 and 18 in this measurement appeared unusual. On the blouse front and back, the shoulder seam increased  $\frac{3}{16}$  inch from size 14 to 16, had no variation between sizes 16 and 18, and increased  $\frac{1}{16}$  inch from size 18 to 20. The total bust width increased  $2\frac{3}{8}$  inches from size 14 to 16, 1 inch from size 16 to 18, and  $2\frac{3}{8}$  inches from size 18 to 20. The total upper bust width increased  $2\frac{1}{8}$  inches from size 14 to 16,  $1\frac{3}{4}$  inches from size 16 to 18, and  $1\frac{7}{8}$  inches from size 18 to 20. The total waist width increased  $6\frac{5}{8}$  inches from size 14 to 16, decreased  $3\frac{1}{8}$  inches from size 16 to 18, and

increased  $2 \frac{1}{8}$  inches from size 18 to 20.

The following likenesses and differences were noted in armhole measurements. The armhole depth increased a greater amount between each size on the blouse back than it did on the blouse front. The armhole width increased a greater amount on the blouse front than on the blouse back between the different sizes except between sizes 16 and 18. The variation between sizes 16 and 18 was  $\frac{1}{4}$  inch on the blouse front and back. The armhole curve depth had a greater amount of variation between sizes on the blouse back than on the blouse front. There appeared to be no relationship in the amount of variation between the different sizes of this measurement. The armhole curve variation between sizes 16 and 18 was the same amount,  $\frac{1}{4}$  inch, on the blouse front and back. The increase in the total armhole curve measurement was  $\frac{7}{8}$  inch from size 14 to size 16,  $\frac{1}{2}$  inch from size 16 to size 18, and  $\frac{9}{16}$  inch from size 18 to size 20.

Likenesses and differences noted in the length measurements include the following. The center back length variation was greater than the center front length variation between each size. The center front length increased  $\frac{1}{4}$  inch and the center back length increased  $\frac{3}{8}$  inch from sizes 14 to 16 and 16 to 18. There appeared to be no relationship between the amount of variation in the center front or center back length and the full length on the blouse front or back. The amount of variation in grading sizes 14 to 16 was greater on the blouse front than on the blouse back. The amount of variation in grading sizes 16 to 18 and 18 to 20 was greater on the blouse back than on the blouse front. The drop of shoulder measurement decreased  $\frac{1}{16}$  inch from size 14 to size 16 on the blouse front and had no variation on the blouse back.

to 18 were less than the 2 inches increase suggested by the Bureau of Standards. According to the statement received from the company producing these patterns, Commercial Standard CS13-44 was not used as a basis for grading their patterns. There appeared to be no correlation between the amount of variation of the sleeve cap curve and the armhole curve. In grading all sizes except 18 to 20 the amount of variation used in grading was greater in the total armhole curve than in the cap curve. The armhole curve and the cap curve had the greatest variation between sizes 14 and 16. The least variation in grading the armhole curve and cap curve was from size 16 to 18. The sleeve cap height and armhole depth on the blouse back had the same amount of variation between sizes 18 and 20. The sleeve cap height had a greater variation between all sizes than the armhole depth on the blouse front. These findings indicated an equal variation in grading the same measurement in different sizes in two measurements on the blouse front, one measurement on the blouse back, and no measurement on the sleeve. This made only three measurements on Brand H that had the same amount of variation in grading different sizes.

TABLE XXVIII

VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
1.	Center front length	.2500	.2500	.0625
2.	Neck width	.1250	.0625	.1875
3.	Neck depth	.1250	- .0625	.0625
4.	Across shoulder	1.3750	- .8750	.0625
5.	Slope of shoulder	.5625	.2500	.1250
6.	Drop of shoulder	- .0625	- .0625	.0625
7.	Shoulder seam	.1875	.0000	.0625
8.	Across chest	.2500	.1250	.1875
9.	Bust width	.6875	.1250	.5000
10.	Upper bust width	.5625	.3750	.5000
11.	Full side length	.1875	1.0000	.1875
12.	Underarm length	- .6875	1.0625	.0625
13.	Waist width	2.8125	- 1.9375	.5625
14.	Armhole curve	.5000	.2500	.2500
15.	Height of bust	.1250	.1250	.0000
16.	Armhole curve depth	.2500	- .2500	.0625
17.	Neck curve depth	.0000	.0000	.1250
18.	Bust point width	.1250	.1250	.1250
19.	Full length	.3750	.1250	.1875
20.	Neck curve	.1250	.1875	.0625
21.	Dart point to bust point	.0000	- .1250	.0000
22.	Armhole depth	.1250	.0625	.0625
23.	Armhole width	.1875	.2500	.3750
24.	Shoulder to waist	.3750	.1250	.1875
25.	Waist dart	8.5°	- 9.0°	- 1.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.



TABLE XXVIII (Continued)

VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
26.	Center back length	.3750	.3750	.1250
27.	Neck width	.1250	.1250	.0625
28.	Neck depth	.0000	- .0625	.0625
29.	Across shoulder	.4375	.1250	.1250
30.	Slope of shoulder	.0625	.3750	.3125
31.	Drop of shoulder	.0000	.0625	.0000
32.	Shoulder seam	.1875	.0000	.0625
33.	Shoulder draft width	.5625	.1875	.1250
34.	Across chest	.3750	.2500	.1250
35.	Bust width	.5000	.3750	.6875
36.	Upper bust width	.5000	.5000	.4375
37.	Full side length	.3125	.4375	.2500
38.	Underarm length	.1875	.1250	.1250
39.	Waist width	.5000	.3750	.5000
40.	Armhole curve	.3750	.2500	.3125
41.	Full length	.3125	.3125	.2500
42.	Neck curve	.1875	.1250	.0625
43.	Neck curve depth	.0000	.0000	.0000
44.	Armhole curve depth	- .0625	.1250	.0000
45.	Armhole depth	.2500	.1875	.1250
46.	Armhole width	.1250	.2500	.3125
47.	Shoulder dart	--**	--	--
48.	Neck dart	.5°	- 1.0°	.5°
49.	Waist dart	.5°	.0°	.0°

TABLE XXVIII (Continued)

VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
26.	Center back length	.3750	.3750	.1250
27.	Neck width	.1250	.1250	.0625
28.	Neck depth	.0000	- .0625	.0625
29.	Across shoulder	.4375	.1250	.1250
30.	Slope of shoulder	.0625	.3750	.3125
31.	Drop of shoulder	.0000	.0625	.0000
32.	Shoulder seam	.1875	.0000	.0625
33.	Shoulder draft width	.5625	.1875	.1250
34.	Across chest	.3750	.2500	.1250
35.	Bust width	.5000	.3750	.6875
36.	Upper bust width	.5000	.5000	.4375
37.	Full side length	.3125	.4375	.2500
38.	Underarm length	.1875	.1250	.1250
39.	Waist width	.5000	.3750	.5000
40.	Armhole curve	.3750	.2500	.3125
41.	Full length	.3125	.3125	.2500
42.	Neck curve	.1875	.1250	.0625
43.	Neck curve depth	.0000	.0000	.0000
44.	Armhole curve depth	- .0625	.1250	.0000
45.	Armhole depth	.2500	.1875	.1250
46.	Armhole width	.1250	.2500	.3125
47.	Shoulder dart	--**	--	--
48.	Neck dart	.5°	- 1.0°	.5°
49.	Waist dart	.5°	.0°	.0°

TABLE XXVIII (Continued)

VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*		
		Sizes 14-16	Sizes 16-18	Sizes 18-20
50.	Bicep	.4375	.4375	.5000
51.	Overarm length	.5000	.3125	.3750
52.	Sleeve cap height	.1875	.1250	.1250
53.	Overarm to elbow	.2500	.3125	.1250
54.	Overarm length	.3750	.1250	.2500
55.	Overarm length from bicep to elbow	.1250	.1250	.0625
56.	Elbow girth	.4375	.2500	.3750
57.	Wrist girth	.3125	.2500	.2500
58.	Cap curve	.7500	.4375	.6875

Comparison of the Variations  
in Grading of the Same Size Pattern  
of the Four Brands in the Medium Price Group

1. Size 14-16 patterns.

The variations in grading sizes 14 and 16 patterns by the four different companies in the medium price group are given in Table XXIX.

In grading the neck width on the blouse front, size 16 was  $\frac{1}{8}$  inch greater than size 14 in Brands B and H, but size 14 was  $\frac{1}{16}$  inch greater than size 16 in Brands A and C. The neck depth of Brands A and H was  $\frac{1}{8}$  inch greater in size 16, Brand B did not vary, and Brand C was  $\frac{5}{16}$  inch greater. The neck curve was  $\frac{1}{8}$  inch greater in Brands B and H, did not vary in Brand A, and was  $\frac{1}{16}$  inch greater in Brand C on size 16. The neck curve depth was  $\frac{1}{8}$  inch greater in size 16 on Brand A while Brands B, C, and H did not vary.

In the width measurements on the blouse front, the across shoulder measurement varied  $\frac{1}{8}$  inch,  $\frac{5}{16}$  inch,  $\frac{3}{16}$  inch, and  $1\frac{3}{8}$  inches greater in size 16 of Brands A, B, C, and H respectively. The shoulder seam measurement was  $\frac{1}{8}$  inch greater in size 16 on Brands A and B,  $\frac{1}{16}$  inch greater on Brand C, and  $\frac{3}{16}$  inch greater on Brand H. Across the chest increased by  $\frac{5}{16}$  inch in Brand A,  $\frac{7}{16}$  inch in Brand B,  $\frac{11}{16}$  inch in Brand C, and  $\frac{1}{4}$  inch in Brand H from size 14 to size 16. The bust width was  $\frac{5}{8}$  inch greater in Brand A,  $\frac{11}{16}$  inch greater in Brands B and H, and  $\frac{9}{16}$  inch greater in Brand C in size 16 than size 14. The upper bust width in size 16 increased  $\frac{1}{16}$  inch in Brands A, B, and C, and  $\frac{1}{2}$  inch in Brand D. The waist width of size 16 was  $\frac{9}{16}$  inch greater in Brand A,  $\frac{7}{16}$  inch greater in Brand B,  $\frac{3}{8}$  inch greater in Brand C, and  $2\frac{13}{16}$  inches greater in Brand H than size 14.

The armhole depth in size 16 increased  $\frac{1}{16}$  inch in Brand A,

$\frac{3}{16}$  inch in Brands B and C, and  $\frac{1}{8}$  inch in Brand H. The armhole width varied  $\frac{1}{2}$  inch in Brand A,  $\frac{5}{16}$  inch in Brand B,  $\frac{3}{8}$  inch in Brand C, and  $\frac{3}{16}$  inch in Brand H from size 14 to size 16. The armhole curve was  $\frac{1}{2}$  inch greater in Brands A, C, and H, and  $\frac{5}{16}$  inch greater in Brand B in size 16 than in size 14. There was a greater variation of  $\frac{1}{16}$  inch in grading the armhole curve depth from size 14 to size 16 in Brands A, B, and C, and a  $\frac{1}{4}$  inch greater variation in Brand H.

In the length measurements on the blouse front, the center front length of size 16 varied  $\frac{5}{16}$  inch and  $\frac{1}{2}$  inch greater in Brands A and B respectively, and  $\frac{1}{4}$  inch greater in Brands C and H. The full length of size 16 was  $\frac{1}{2}$  inch greater in Brands A and B and  $\frac{3}{8}$  inch greater in Brands C and H than size 14. The slope of shoulder was  $\frac{9}{16}$  inch greater in size 16 in Brands A, C, and H, and  $\frac{11}{16}$  inch greater in Brand B. There was no variation in the drop of shoulder in Brands A and B, but in Brand C, size 16 was  $\frac{3}{16}$  inch less than size 14, and in Brand H, size 16 was  $\frac{1}{16}$  inch less than size 14. The full side length in size 16 increased  $\frac{5}{16}$  inch in Brand A,  $\frac{7}{16}$  inch in Brands B and C, and  $\frac{3}{16}$  inch in Brand H. The underarm length was  $\frac{3}{16}$  inch and  $\frac{1}{16}$  inch greater in size 16 than in size 14 in Brands B and C, and size 14 was  $\frac{11}{16}$  inch greater in Brand H. The shoulder to waist measurement on size 16 increased  $\frac{1}{2}$  inch in Brand A,  $\frac{3}{8}$  inch in Brands B and H, and  $\frac{5}{8}$  inch in Brand C.

The waist dart on the blouse front was 1 degree greater in size 16 than in size 14 in Brand A, did not vary in Brand B, was 1 degree less in Brand C, and  $8\frac{1}{2}$  degrees greater in Brand H.

On the blouse back the grading of the neck width from size 14 to size 16 gave the size 16 pattern a  $\frac{1}{16}$  inch greater measurement in

Brand A,  $11/16$  inch less measurement in Brand B, no variation in the measurement in Brand C, and  $1/8$  inch greater measurement in Brand H. The neck depth and neck curve depth were  $1/16$  inch less in size 16 than in size 14 in Brand A, did not vary in Brands B and H, and were  $1/16$  inch greater in Brand C. The neck curve of size 16 was  $1/16$  inch greater in Brands A and C,  $11/16$  inch less in Brand B, and  $3/16$  inch greater in Brand H.

In the width measurements on the blouse back, the across the shoulder measurement of size 16 was  $1/16$  inch greater than size 14 in Brand A,  $13/16$  inch less in Brand B,  $1/8$  inch greater in Brand C, and  $7/16$  inch greater in Brand H. The shoulder seam width was  $1/8$  inch greater in all brands except Brand H which was  $3/16$  inch greater. The shoulder draft width increased  $1/8$  inch in size 16 in Brands A and C, decreased  $7/16$  inch in Brand B, and increased  $9/16$  inch in Brand H. Across the chest was  $1/4$  inch greater in size 16 of Brand A,  $1/2$  inch less in Brand B,  $3/16$  inch greater in Brand C, and  $3/8$  inch greater in Brand H. The bust width of size 16 increased  $1/2$  inch in Brands A and H, decreased  $5/16$  inch in Brand B, and increased  $3/8$  inch in Brand C. The upper bust width of size 16 increased  $11/16$  inch in Brand A, decreased  $5/16$  inch in Brand B, and increased  $3/8$  inch and  $1/2$  inch in Brands C and H respectively. The waist width of size 16 was  $9/16$  inch greater in Brand A,  $3/8$  inch less in Brand B, and  $1/4$  and  $1/5$  inch greater in Brands C and H respectively.

The armhole depth on the blouse back was  $1/4$  inch greater in size 16 of Brands A and H,  $1/16$  inch greater in Brand B, and  $5/16$  inch greater in Brand C. The armhole width increased  $5/16$  inch in Brand A,  $1/2$  inch in Brand B,  $1/4$  inch in Brand C, and  $1/8$  inch in Brand H from

size 14 to size 16. The armhole curve in size 16 was  $1/2$  inch greater in Brand A,  $1/8$  inch greater in Brand B, and  $3/8$  inch greater in Brand C and Brand H. In Brands A and H, the armhole curve depth of size 16 was  $1/16$  inch less than on size 14. The same measurement was  $1/8$  inch greater on Brand B, and  $1/16$  inch greater on Brand C.

On the blouse back in the center back length measurement of size 16 there was a  $7/16$  inch greater measurement in Brand A,  $3/16$  inch greater measurement in Brand B,  $5/16$  inch greater measurement in Brand C, and  $3/8$  inch greater measurement in Brand H. The full length was greater by the same amounts as the center back length in Brands A and B. In Brand C, the full length was  $13/16$  inch greater in size 16 and in Brand H was  $5/16$  inch greater. The slope of shoulder was  $1/8$  inch less in size 16 in Brand A, 1 inch less in Brand B, had no variation in Brand C, and was  $1/16$  inch greater in Brand H. The drop of shoulder was  $1/8$  inch greater in Brands A and B and had no variation in Brands C and H. The full side length of size 16 had a greater measurement than size 14 of  $5/16$  inch in Brand A,  $3/16$  inch in Brand B,  $3/8$  inch in Brand C, and  $5/16$  inch in Brand H. The underarm length increased  $1/16$  inch in Brands A and B,  $1/8$  inch in Brand C, and  $3/16$  inch in Brand H.

The neck dart was used in Brands C and H and increased  $1/2$  degree in each brand from the measurements of size 14. The waist dart of Brands A and B did not vary from size 14 to size 16. The variation in Brand C was  $1\ 1/2$  degrees and in Brand H was  $1/2$  degree from size 14 to size 16.

The bicep width measurement on the sleeve in size 16 increased  $5/8$  inch in Brand A,  $7/16$  inch in Brand B and Brand H, and  $3/4$  inch in Brand C. The sleeve cap height measurement of size 16 was  $1/4$  inch greater in Brand A,  $1/8$  inch greater in Brand B, and  $3/16$  inch greater in

Brands C and H than size 14. The cap curve increased  $15/16$  inch in Brand A,  $1/2$  inch in Brand B,  $13/16$  inch in Brand C, and  $3/4$  inch in Brand H from size 14 to size 16. The other sleeve measurements were made on Brands A, C, and H. In overarm length, Brand A was  $3/8$  inch greater, Brand C was  $7/16$  inch greater and Brand H was  $1/2$  inch greater in size 16 than size 14. Brands A and H increased  $1/4$  inch in the overarm to elbow length in size 16, and Brand C increased  $5/16$  inch. The underarm length measurement of size 16 was  $3/16$  inch greater in Brands A and C, and  $3/8$  inch greater in Brand H. From size 14 to size 16 increased  $1/16$  inch in Brand A,  $1/4$  inch in Brand C, and  $1/8$  inch in Brand D on the overarm length from bicep to elbow. In Brands A and H, the elbow girth in size 16 was  $7/16$  inch greater than in size 14, and in Brand C it was  $1/2$  inch greater. The wrist girth was greater in size 16 by  $3/16$  inch,  $1/4$  inch, and  $5/16$  inch in Brands A, C, and H respectively.

The following generalizations from these findings were noted. The total neck curve in size 16 was less in Brand A, and greater by  $1/4$  inch in Brands B, C, and D than in size 14. Brand H increased the across shoulder measurement of the blouse front and back the greatest amount. Brand C was second and Brand A was third. Brand B was unusual because it increased  $5/16$  inch on the blouse front but decreased  $13/16$  inch on the blouse back from size 14 to size 16. The shoulder seam in Brands A and B was greater by  $1/8$  inch on the blouse front and back. Brand C increased the same amount as Brands A and B on the blouse back but increased only  $1/16$  inch on the blouse front. Brand H increased the greatest amount,  $3/16$  inch, on the blouse front and back. Across the chest in size 16 was  $1/4$  inch greater on the blouse back and  $5/16$  inch greater on the blouse front in Brand A. Brand H variations were



diametrically different from those of Brand A. Brand C increased  $\frac{3}{16}$  inch on the blouse back and  $\frac{9}{16}$  inch on the blouse front. Brand B was unusual in its measurements. This brand was  $\frac{1}{2}$  inch less on the blouse back than size 14 and  $\frac{7}{16}$  inch greater on the blouse front. The increase in bust width was greater on the blouse front than on the blouse back in each brand. Size 16 of Brand A increased  $\frac{5}{8}$  inch on the blouse front and  $\frac{1}{2}$  inch on the blouse back. Brand B was  $\frac{11}{16}$  inch greater on the blouse front and  $\frac{5}{16}$  inch less on the blouse back. Brand C increased  $\frac{9}{16}$  inch and  $\frac{3}{8}$  inch on the blouse front and back respectively. Brand H increased  $\frac{11}{16}$  inch on the blouse front and  $\frac{1}{2}$  inch on the blouse back. The total bust width increased  $2\frac{1}{4}$  inches on Brand A,  $1\frac{1}{2}$  inches on Brand B,  $1\frac{7}{8}$  inches on Brand C, and  $2\frac{3}{4}$  inches on Brand H from size 14 to size 16. Brands A, B, and H increased  $\frac{9}{16}$  inch in the upper bust measurement on the blouse front. On the blouse back the variation was  $\frac{11}{16}$  inch greater in Brand A,  $\frac{5}{16}$  inch less in Brand B, and  $\frac{1}{2}$  inch greater in Brand H. This measurement on Brand C was  $\frac{1}{2}$  inch greater on the blouse front and  $\frac{3}{8}$  inch greater on the blouse back. The total upper bust width increased  $2\frac{1}{2}$  inches on Brand A,  $\frac{1}{2}$  inch on Brand B,  $1\frac{3}{4}$  inches on Brand C, and  $2\frac{1}{8}$  inches on Brand H from sizes 14 to 16. The waist width of size 16 increased  $\frac{9}{16}$  inch in Brand A on the blouse front and back. Brand B was  $\frac{7}{16}$  inch greater on the blouse front, and  $\frac{3}{8}$  inch less on the blouse back. Brand C was  $\frac{3}{8}$  inch greater on the blouse front and  $\frac{1}{4}$  inch greater on the blouse back. The variation in Brand H was unusual on the blouse front with an increase of  $2\frac{13}{16}$  inches and an increase of  $\frac{1}{2}$  inch on the blouse back. The total waist width increased  $2\frac{1}{4}$  inches on Brand A,  $\frac{1}{8}$  inch on Brand B, 1 inch on Brand C, and  $6\frac{5}{8}$  inches on Brand H.

The armhole depth had the greatest variation on the blouse front and back on Brand C. In the different brands, size 16 of Brand A increased  $1/16$  and  $1/4$  inch, Brand B  $3/16$  and  $1/16$  inch, Brand C  $3/16$  and  $5/16$  inch, and Brand H  $1/8$  and  $1/4$  inch on the blouse front and back respectively. In the armhole width on Brand A the blouse front was  $1/2$  inch greater and the blouse back was  $5/16$  inch greater in size 16, but Brand B had variations that were diametrically different. In Brand C the armhole width was  $3/8$  inch greater on the blouse front and  $1/4$  inch greater on the blouse back. In Brand H, the front varied  $3/16$  inch and the back varied  $1/8$  inch. The armhole curve was  $1/2$  inch greater on the blouse front and back of Brand A,  $5/16$  and  $1/8$  inch greater on Brand B, and  $1/2$  and  $3/8$  inch greater on Brands C and H.

The increase in the length of the center front and center back from size 14 to size 16 varied in the four brands studied in the medium price group. The full length also increased a different amount on the blouse front and back in each brand. The full length on the blouse back increased the greatest amount on Brand C. This was  $13/16$  inch. On the blouse front Brands A and B had the greatest variation of  $1/2$  inch. The increase in the slope of shoulder in Brand A was  $9/16$  inch on the blouse front, but there was a decrease on the blouse back of  $1/8$  inch. Brand B was similar in its variations with  $11/16$  inch greater variation on the blouse front and 1 inch lesser variation on the blouse back. Brand C increased on the blouse front by  $9/16$  inch but did not vary on the blouse back. The blouse front of Brand H increased  $5/16$  inch while the blouse back increased  $1/16$  inch. The drop of shoulder did not vary in size 16 on the blouse front of Brands A and B and was  $1/8$  inch greater on the blouse back. In Brands C and H, the drop of shoulder on the blouse front

in size 16 was less and on the blouse back it did not vary. These variations were  $3/16$  and  $1/16$  inch in the respective brands. The full side length increased  $5/16$  inch on the blouse front and back, in Brand A,  $7/16$  and  $3/16$  inch on the blouse front and back of Brand B,  $7/16$  and  $3/8$  inch on the blouse front and back of Brand C, and  $3/16$  and  $5/16$  inch on the blouse front and back of Brand H. The underarm length on size 16 was  $3/16$  inch greater on the blouse front and  $1/16$  inch greater on the blouse back in Brand A. Brand B increased  $1/16$  inch on the blouse front and back. Brand C increased  $1/16$  inch on the blouse front while the blouse back increased  $1/8$  inch. Brand H was unusual because the blouse front in size 16 was  $11/16$  inch greater than size 14 and the blouse back was  $3/16$  inch greater.

The waist dart on the blouse front increased 1 degree in size 16 and did not vary on the blouse back of Brand A. Brand B had no variation in the size of the darts on the blouse front or back. Brand C had a 1 degree greater waist dart on size 14 than on size 16 on the blouse front while the waist back dart was  $1\ 1/2$  degrees greater on size 16. The waist dart on the blouse front of Brand H was  $8\ 1/2$  degrees greater on size 16 but only  $1/2$  degree greater on the blouse back.

There appeared to be the following conclusions in the width and length measurements from the generalizations already cited. Brand H had a greater increase in all except the across shoulder blouse width measurements on the blouse front. Brand B had the second greatest increase in measurements from size 14 to 16 except in the waist width. Brand A was third and Brand C was fourth. On the blouse back Brand H had the greatest increase in blouse width measurements except the upper bust and waist measurements. Brand A had the second greatest increase in these

measurements. Brand B was different because all the width measurements on the blouse back were less on size 16 than on size 14. The amount of variation between sizes 14 and 16 in the total bust and waist widths in Brands B and C was less than the amount suggested by the Bureau of Standards. However, both companies stated they used the measurements suggested by the Bureau of Standards<sup>16</sup> in grading these sizes. The length measurements of size 16 were greater on Brand B on the blouse front. Brand A was second and Brand C was third. On the blouse back Brand A had the greater length measurements except the full side length, underarm length, and full length. Brand C had the greatest increase in these measurements. Brand H was third.

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16. Measurements for Misses' dress patterns suggested by the Bureau of Standards are in Appendix Table XIII.

TABLE XXIX

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*		
		Pattern A3	Pattern B3	Pattern C3
1.	Center front length	.3125	.5000	.2500
2.	Neck width	- .0625	.1250	- .0625
3.	Neck depth	.1250	.0000	.3125
4.	Across shoulder	.1250	.3125	.1875
5.	Slope of shoulder	.5625	.6875	.5625
6.	Drop of shoulder	.0000	.0000	- .1875
7.	Shoulder seam	.1250	.1250	.0625
8.	Across chest	.3125	.4375	.6875
9.	Bust width	.6250	.6875	.5625
10.	Upper bust width	.5625	.5625	.5000
11.	Full side length	.3125	.4375	.4375
12.	Underarm length	.1875	.0625	.0625
13.	Waist width	.5625	.4375	.3750
14.	Armhole curve	.5000	.3125	.5000
15.	Height of bust	.1250	.1875	.1250
16.	Armhole curve depth	.0625	.0625	.0625
17.	Neck curve depth	.1250	.0000	.0000
18.	Bust point width	.1250	.2500	.3750
19.	Full length	.5000	.5000	.3750
20.	Neck curve	.0000	.1250	.0625
21.	Dart point to bust point	- .1875	--**	--
22.	Armhole depth	.0625	.1875	.1875
23.	Armhole width	.5000	.3125	.3750
24.	Shoulder to waist	.5000	.3750	.6250
25.	Waist dart	1.0°	.0°	- 1.0°

\*Variations are given in inches except for variations 25, 47, which are given in degrees.

-Indicates measurement of size larger pattern was less than s pattern.

\*\*No measurement was made on that pattern.

TABLE XXIX

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICE

Blouse Front

t	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
length	.3125	.5000	.2500	.2500
-	.0625	.1250	-.0625	.1250
	.1250	.0000	.3125	.1250
r	.1250	.3125	.1875	1.3750
der	.5625	.6875	.5625	.5625
er	.0000	.0000	-.1875	-.0625
	.1250	.1250	.0625	.1875
	.3125	.4375	.6875	.2500
	.6250	.6875	.5625	.6875
th	.5625	.5625	.5000	.5625
th	.3125	.4375	.4375	.1875
h	.1875	.0625	.0625	-.6875
	.5625	.4375	.3750	2.8125
	.5000	.3125	.5000	.5000
	.1250	.1875	.1250	.1250
depth	.0625	.0625	.0625	.2500
th	.1250	.0000	.0000	.0000
th	.1250	.2500	.3750	.1250
	.5000	.5000	.3750	.3750
	.0000	.1250	.0625	.1250
bust				
-	.1875	---**	--	.0000
	.0625	.1875	.1875	.1250
	.5000	.3125	.3750	.1875
ist	.5000	.3750	.6250	.3750
	1.0°	.0°	- 1.0°	8.5°

given in inches except for variations 25, 47, 48, and 49,  
ees.

urement of size larger pattern was less than size smaller

t was made on that pattern.

TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14 -16 PATTERNS  
MEDIUM PRICEBlouse Back

Number	Name of Measurement	Variations*			
		Pattern A3	Pattern B3	Pattern C3	Pattern D3
26.	Center back length	.4375	.1875	.3125	.0000
27.	Neck width	.0625	-.6875	.0000	.0625
28.	Neck depth	-.0625	.0000	.0625	.1250
29.	Across shoulder	.0625	-.8125	.1250	.0000
30.	Slope of shoulder	-.1250	-1.0000	.0000	.0000
31.	Drop of shoulder	.1250	.1250	.0000	.1250
32.	Shoulder seam	.1250	.1250	.1250	.1250
33.	Shoulder draft width	.1250	-.4375	.1250	.1250
34.	Across chest	.2500	-.5000	.1875	.3750
35.	Bust width	.5000	-.3125	.3750	.3750
36.	Upper bust width	.6875	-.3125	.3750	.3750
37.	Full side length	.3125	.1875	.3750	.1250
38.	Underarm length	.0625	.0625	.1250	.2500
39.	Waist width	.5625	-.3750	.3750	.3750
40.	Armhole curve	.5000	.1250	.3750	.8125
41.	Full length	.4375	.1875	.8125	.0625
42.	Neck curve	.0625	-.6875	.0625	.0625
43.	Neck curve depth	-.0625	.0000	.0625	.0625
44.	Armhole curve depth	-.0625	.1250	.0625	.3125
45.	Armhole depth	.2500	.0625	.2500	.5000
46.	Armhole width	.3125	.5000	.2500	---
47.	Shoulder dart	.0°	-.5°	---	.5°
48.	Neck dart	---	---	.5°	1.5°
49.	Waist dart	.0°	.0°	1.5°	

TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14 -16 PATTERNS  
MEDIUM PRICE

Blouse Back

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Center back length	.4375	.1875	.3125	.3750
Back width	.0625	-.6875	.0000	.1250
Back depth	-.0625	.0000	.0625	.0000
Cross shoulder	.0625	-.8125	.1250	.4375
Slope of shoulder	-.1250	-1.0000	.0000	.0625
Drop of shoulder	.1250	.1250	.0000	.0000
Shoulder seam	.1250	.1250	.1250	.1875
Shoulder draft				
Width	.1250	-.4375	.1250	.5625
Cross chest	.2500	-.5000	.1875	.3750
Arm width	.5000	-.3125	.3750	.5000
Upper bust width	.6875	-.3125	.3750	.5000
Upper side length	.3125	.1875	.3750	.3125
Sleeve arm length	.0625	.0625	.1250	.1875
Wrist width	.5625	-.3750	.2500	.5000
Wrist curve	.5000	.1250	.3750	.3750
Wrist length	.4375	.1875	.8125	.3125
Wrist curve	.0625	-.6875	.0625	.1875
Wrist curve depth	-.0625	.0000	.0625	.0000
Wrist curve depth	-.0625	.1250	.0625	-.0625
Wrist depth	.2500	.0625	.3125	.2500
Wrist width	.3125	.5000	.2500	.1250
Shoulder dart	.0°	-.5°	--**	--
Wrist dart	--**	--	.5°	.5°
Wrist dart	.0°	.0°	1.5°	.5°



TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICESleeve

Number	Name of Measurement	Variations*			
		Pattern A3	Pattern B3	Pattern C3	Patte
50.	Bicep	.6250	.4375	.7500	.
51.	Overarm length	.3750	--**	.4375	.
52.	Sleeve cap height	.2500	.1250	.1875	.
53.	Overarm to elbow	.2500	--**	.3125	.
54.	Underarm length	.1875	--**	.1875	.
55.	Overarm length from bicep to elbow	.0625	--**	.2500	.
56.	Elbow girth	.4375	--**	.5000	.
57.	Wrist girth	.1875	--**	.2500	.
58.	Cap curve	.9375	.5000	.8125	.

TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICE

Sleeve

Variations*			
Pattern A3	Pattern B3	Pattern C3	Pattern H3
.6250	.4375	.7500	.4375
.3750	--**	.4375	.5000
.2500	.1250	.1875	.1875
.2500	--**	.3125	.2500
.1875	--**	.1875	.3750
.0625	--**	.2500	.1250
.4375	--**	.5000	.4375
.1875	--**	.2500	.3125
.9375	.5000	.8125	.7500

TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICE

Sleeve

Pattern A3	Variations*		
	Pattern B3	Pattern C3	Pattern H3
.6250	.4375	.7500	.4375
.3750	--**	.4375	.5000
.2500	.1250	.1875	.1875
.2500	--**	.3125	.2500
.1875	--**	.1875	.3750
.0625	--**	.2500	.1250
.4375	--**	.5000	.4375
.1875	--**	.2500	.3125
.9375	.5000	.8125	.7500

TABLE XXIX (Continued)

VARIATIONS IN GRADING SIZES 14-16 PATTERNS  
MEDIUM PRICE

Sleeve

Variations*			
Pattern A3	Pattern B3	Pattern C3	Pattern H3
.6250	.4375	.7500	.4375
.3750	--**	.4375	.5000
.2500	.1250	.1875	.1875
.2500	--**	.3125	.2500
.1875	--**	.1875	.3750
.0625	--**	.2500	.1250
.4375	--**	.5000	.4375
.1875	--**	.2500	.3125
.9375	.5000	.8125	.7500

## 2. Size 16-18 patterns.

The variations in grading sizes 16 and 18 patterns by the four different companies in the medium price group are given in Table XXX.

In grading the neck width on the blouse front, size 18 was  $\frac{1}{4}$  inch greater in Brands A and C,  $\frac{1}{8}$  inch greater in Brand B, and  $\frac{1}{16}$  inch greater in Brand H. The neck depth increased  $\frac{1}{8}$  inch in Brand A,  $\frac{3}{16}$  inch in Brand B,  $\frac{1}{16}$  inch in Brand C, and decreased  $\frac{1}{16}$  inch in Brand H. The neck curve measurement of size 18 increased  $\frac{3}{8}$  inch in Brand A,  $\frac{1}{4}$  inch in Brand B, and  $\frac{3}{16}$  inch in Brands C and H. The neck curve depth measurement did not vary from size 16 to size 18 in Brands A, B, and H, and was  $\frac{1}{16}$  inch greater in Brand C.

In the width measurements on the blouse front, the across shoulder measurement varied  $\frac{7}{16}$  inch,  $\frac{1}{4}$  inch, and  $\frac{5}{16}$  inch greater in Brands A, B, and C respectively. Brand H was  $\frac{7}{8}$  inch less in size 18 than in size 16. The shoulder seam measurement in size 16 was  $\frac{3}{16}$  inch greater in Brands A and C,  $\frac{1}{8}$  inch greater in Brand B, and did not vary in Brand H. Across the chest increased  $\frac{5}{16}$  inch in Brand A,  $\frac{1}{4}$  inch in Brands B and H, and  $\frac{7}{16}$  inch in Brand C. The bust width of size 18 was  $\frac{1}{2}$  inch greater than size 16 in Brand A,  $\frac{5}{8}$  inch greater in Brand B,  $\frac{3}{8}$  inch greater in Brand C, and  $\frac{1}{8}$  inch greater in Brand H. The upper bust measurement varied the same amount as the bust measurement in Brands A and B, but in Brand C it was  $\frac{1}{2}$  inch greater and in Brand H was  $\frac{3}{8}$  inch greater. There was an increase in the waist width of size 18 of  $\frac{7}{16}$  inch in Brand A,  $\frac{1}{2}$  inch in Brand B,  $\frac{9}{16}$  inch in Brand C, and an unusual decrease in Brand H of  $1\frac{15}{16}$  inches.

The armhole depth in size 18 increased  $\frac{1}{8}$  inch in Brand A,  $\frac{5}{16}$  inch in Brand B,  $\frac{3}{16}$  inch in Brand C, and  $\frac{1}{16}$  inch in Brand H. The

armhole width varied  $1/16$  inch in Brand A,  $5/16$  inch in Brand B,  $1/8$  inch in Brand C, and  $1/4$  inch in Brand H. There was a  $1/8$  inch greater measurement in the armhole curve in size 18 than in size 16 in Brands A and C, a  $13/16$  inch greater measurement in Brand B, and a  $1/4$  inch greater measurement in Brand H. The armhole curve depth of size 18 had no variation in Brand A, a greater variation of  $1/16$  inch in Brand B and  $1/8$  inch in Brand C, and a lesser variation of  $1/4$  inch in Brand H.

In the length measurements on the blouse front, the center front length of size 18 varied  $5/16$  inch and  $1/2$  inch greater in Brands A and B respectively, and  $1/4$  inch greater in Brands C and H. These variations were the same as those in the grading of sizes 14 and 16. The full length of size 18 was  $5/8$  inch greater in Brand A,  $13/16$  inch greater in Brand B,  $7/16$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. The slope of shoulder in size 18 was  $7/16$  inch greater in Brand A,  $9/16$  inch greater in Brand B,  $5/16$  inch greater in Brand C, and  $1/4$  inch greater in Brand H than in size 16. The measurement of the drop of shoulder in Brands A and C was  $3/16$  inch greater in size 18 than in size 16, while in Brands B and H it was  $1/16$  inch greater in size 16 than in size 18. The full side length in size 18 increased  $5/16$  inch in Brand A,  $3/8$  inch in Brand B,  $1/16$  inch in Brand C, and an extreme of 1 inch in Brand H. The underarm length varied  $1/16$  inch in Brand A,  $1/8$  inch in Brand B, and an extreme of  $1\ 1/16$  inches in Brand H from size 16 to size 18. This measurement in Brand C did not vary. The shoulder to waist measurement on size 18 increased  $1/2$  inch in Brand A,  $3/4$  inch in Brand B,  $1/16$  inch in Brand C, and  $1/8$  inch in Brand H.

In Brands A and B, the waist dart increased 1 degree and 3 degrees respectively in sizes 16 and 18. In Brands C and H, it decreased

1/2 degree and 9 degrees respectively.

On the blouse back the grading of the neck width from size 16 to size 18 gave the size 18 pattern a 3/16 inch greater measurement in Brands A and C, a 5/8 inch greater measurement in Brand B, and a 1/8 inch greater measurement in Brand H. The neck depth measurement had no variation in sizes 16 and 18 in Brands A and B, a 1 1/16 inch greater variation in size 18 of Brand C, and a 1/16 inch greater variation in size 16 of Brand H. The neck curve increased 1/8 inch from size 16 to size 18 in Brands A and H, 5/8 inch in Brand B, and 1/4 inch in Brand C. There was no variation in the neck curve depth of the four brands.

In the width measurements on the blouse back, the across the shoulder measurement of size 18 was 1/4 inch greater than size 16 in Brand A, an unusual 1 1/8 inches greater in Brand B, 5/16 inch greater in Brand C, and 1/8 inch greater in Brand H. The shoulder seam width was 1/16 inch, 1/4 inch, and 1/8 inch greater in Brands A, B, and C respectively. In Brand H there was no variation. The shoulder draft width decreased 1/8 inch in Brand A, increased 1 1/8 inches in Brand B, did not vary in Brand C, and increased 3/16 inch in Brand H. Across the chest was 1/4 inch greater in Brands A and H, 1 inch greater in Brand B, and 3/8 inch greater in Brand C. The bust width of size 18 increased 7/16 inch, 1 3/8 inches, 7/8 inch, and 3/8 inch in Brands A, B, C, and H respectively. There was an increase of 5/16 inch in Brand A, 1 7/16 inches in Brand B, 9/16 inch in Brand C, and 1/2 inch in Brand H from size 16 to size 18. The waist width increased the same amount as the upper bust width in Brands A, B, and C. Brand H was greater by 3/8 inch in the waist measurement of size 18.

The armhole depth on the blouse back was 3/16 inch greater in

size 18 in Brands A, C, and H, and  $1/4$  inch greater in Brand B. The armhole width measurement on the size 18 pattern was  $3/16$  inch greater in Brand A,  $5/16$  inch greater in Brand B, and  $1/4$  inch greater in Brands C and H. There was a  $5/16$  inch greater measurement in size 18 than in size 16 in Brands A and C, a  $9/16$  inch and  $1/4$  inch greater measurement in Brands B and H respectively. In Brands A and H, the armhole curve depth of size 18 was  $1/8$  inch greater than on size 16. This measurement in Brands B and C was diametrically different, being  $1/16$  inch greater in size 18 of Brand B and  $1/16$  inch greater in size 16 of Brand C.

On the blouse back in the center back length measurement of size 18 there was a  $5/16$  inch greater measurement in Brand A,  $7/16$  inch greater measurement in Brand B,  $3/16$  inch greater measurement in Brand C, and  $3/8$  inch greater measurement in Brand H. The full length was greater by the same amounts as the center back length in Brands A and B. In Brands C and H, the full length was  $5/16$  inch greater in size 18 than in size 16. The slope of shoulder was  $13/16$  inch greater in size 18 in Brand A,  $1\ 3/8$  inches greater in Brand B,  $7/16$  inch greater in Brand C, and  $3/8$  inch greater in Brand H. The drop of shoulder was greater by the same amount in size 18 in Brands A, C, and H. This amount was  $1/16$  inch. There was no variation in the measurements of sizes 16 and 18 in Brand B. The full side length of size 18 had a greater measurement than size 16 of  $1/4$  inch in Brand A,  $7/16$  inch in Brands B and C, and  $1/16$  inch in Brand C. The underarm length of Brand A was greater in size 18 by  $1/16$  inch, in Brand B by  $3/16$  inch, and in Brand H by  $1/8$  inch. Brand C had a lesser measurement by  $1/16$  inch in size 18 than was in size 16.

The neck dart was used in Brands C and H and decreased 1 degree in each brand from the measurements of size 16. The waist dart of Brand



A was 9 degrees greater in size 18 than in size 16. Brands B and C decreased  $1/2$  degree and 1 degree in Brands B and C respectively. Brand H had no variation.

The bicep width measurement on the sleeve in size 18 increased  $1/2$  inch in Brand A,  $7/8$  inch in Brands B and C, and  $7/16$  inch in Brand H. The sleeve cap height measurement of size 18 was  $1/4$  inch greater in Brands A and B,  $3/16$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. The cap curve increased  $13/16$  inch in Brand A,  $15/16$  inch in Brand B and Brand C, and  $7/16$  inch in Brand H. The other sleeve measurements were made only on Brands A, C, and H. In overarm length, Brand A was  $3/8$  inch greater, Brand C was  $3/4$  inch greater, and Brand H was  $5/16$  inch greater on size 18 than on size 16. Brands C and H increased  $5/16$  inch in the overarm to elbow length in size 18, and Brand A increased  $3/8$  inch. The underarm length measurement of size 18 was  $1/4$  inch greater in Brand A,  $3/16$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. The overarm length from bicep to elbow increased  $1/8$  inch in Brands A and H, and  $1/16$  inch in Brand C from size 16 to size 18. In Brand A the elbow girth was  $3/8$  inch greater on size 18 in Brand A,  $1\ 7/16$  inches greater in Brand C, and  $1/4$  inch greater in Brand H. The wrist girth was greater in size 18 by  $1/8$  inch in Brand A,  $5/16$  inch in Brand C, and  $1/4$  inch in Brand H.

The following generalizations from these findings were noted. The total neck curve was 1 inch greater on size 18 than on size 16 in Brand A,  $2\ 1/8$  inches greater in Brand B,  $1\ 3/4$  inches greater in Brand C, and  $5/8$  inch greater in Brand H. Brand B increased the across shoulder measurement on the blouse back the greatest amount while Brand A increased this measurement the greatest amount on the blouse front.

Though Brand B increased  $1\frac{1}{8}$  inches on the blouse back, on the blouse front it increased only  $\frac{1}{4}$  inch. Brand C increased the same amount,  $\frac{5}{16}$  inch, on the blouse front and back. Brand H was unusual with a  $\frac{7}{8}$  inch lesser measurement in size 18 than in size 16 on the blouse front and a  $\frac{1}{8}$  inch greater measurement on the blouse back. Brand A increased  $\frac{1}{16}$  inch on the shoulder seam on the blouse front and  $\frac{3}{16}$  inch on the blouse back. The shoulder seam width was  $\frac{1}{4}$  inch greater on the blouse back of Brand B, and  $\frac{1}{8}$  inch greater on the blouse front. On Brand C the blouse front shoulder seam on size 18 was  $\frac{3}{16}$  inch greater and on the blouse back it was  $\frac{1}{8}$  inch greater. This measurement did not vary in sizes 16 and 18 in Brand H. The across chest measurement had the greatest measurement on the blouse front in Brand C, and the greatest measurement on the blouse back in Brand B. In Brand A the across chest measurement of size 18 was  $\frac{5}{16}$  inch greater on the blouse front and  $\frac{1}{4}$  inch greater on the blouse back. Brand B was  $\frac{1}{8}$  inch greater on the blouse front and 1 inch greater on the blouse back. In Brand C this measurement was  $\frac{7}{16}$  inch greater on the blouse front and  $\frac{3}{8}$  inch greater on the blouse back. The measurements of Brand H were  $\frac{1}{8}$  inch greater on the blouse front and  $\frac{1}{4}$  inch greater on the blouse back. The bust width of Brand B had the greatest increase on the blouse front and back. The variation on the blouse front in this brand was  $1\frac{3}{8}$  inches and on the blouse back was  $\frac{5}{8}$  inch. In Brand A the blouse front increased  $\frac{1}{2}$  inch and the blouse back  $\frac{7}{16}$  inch. Brand C had a  $\frac{3}{8}$  inch greater measurement in size 18 on the blouse front and a  $\frac{5}{8}$  inch greater measurement on the blouse back. Brand H had the least variation of the four brands between sizes 16 and 18 with a  $\frac{1}{8}$  inch greater variation on the blouse front and a  $\frac{3}{8}$  inch greater variation

on the blouse back. The total bust width variation from size 16 to size 18 was  $1\frac{7}{8}$  inches in Brand A, 4 inches in Brand B, 2 inches in Brand C, and 1 inch in Brand H. Size 18 had a larger measurement than size 16 in each brand. Brand B had the greatest increase from size 16 to size 18 in upper bust width. On the blouse front this increase was  $\frac{5}{8}$  inch and on the blouse back it was  $1\frac{7}{16}$  inches. The increase of the upper bust width in Brand A was the same as the increase in the bust width on the blouse front. While the blouse front of Brand A was  $\frac{1}{2}$  inch greater in size 18, the blouse back was  $\frac{5}{16}$  inch greater. Brand C had a  $\frac{1}{2}$  inch greater measurement on the blouse front and a  $\frac{9}{16}$  inch greater measurement on the blouse back. The upper bust width of Brand H was  $\frac{3}{8}$  inch and  $\frac{1}{2}$  inch greater on the blouse front and blouse back. The total upper bust width variation from size 16 to size 18 was  $1\frac{5}{8}$  inches in Brand A,  $4\frac{1}{8}$  inches in Brand B,  $2\frac{1}{8}$  inches in Brand C, and  $1\frac{3}{4}$  inches in Brand H. Size 18 had a larger measurement than size 16 in each brand. The waist width increased the same amount on the blouse front and back in Brand A and Brand C, which was  $\frac{7}{16}$  inch in Brand A and  $\frac{9}{16}$  inch in Brand C. In Brand B there was an increase of  $\frac{1}{2}$  inch in the blouse front in waist width while on the blouse back the increase was  $1\frac{3}{8}$  inches. Brand H had an unusual waist width. On the blouse front it was  $1\frac{15}{16}$  inches less in size 18 than in size 16, while on the blouse back it was  $\frac{3}{8}$  inch greater. The total waist width variation from size 16 to size 18 was  $1\frac{3}{4}$  inches in Brand A,  $3\frac{3}{4}$  inches in Brand B,  $2\frac{1}{4}$  inches in Brand C, and  $3\frac{1}{8}$  inches in Brand H. Brands A, B, and C were greater in the measurement of size 18 than size 16, but Brand H was greater in the measurement of size 16 than in size 18.

The armhole depth had the greatest increase from size 16 to size

18 in Brand B. This brand was  $5/16$  inch greater on the blouse front and  $1/4$  inch greater on the blouse back. Though the armhole depth on the blouse back was  $3/16$  inch on Brands A, C, and H, on the blouse front Brand A was greater by  $1/8$  inch, Brand C was greater by  $3/16$  inch, and Brand H was greater by  $1/16$  inch. Brand B had the greatest variation in the armhole width. On the blouse front it increased  $7/16$  inch and on the blouse back it increased  $5/16$  inch. Brand A was  $1/16$  inch greater on the blouse front and  $3/16$  inch greater on the blouse back. The armhole width of Brand C increased  $1/8$  inch in Brand C on the blouse front and  $1/4$  inch on the blouse back. The measurements in Brand H increased the same amount,  $1/4$  inch, on the blouse front and back. Brand B had the greatest increase in the total armhole curve in grading from size 16 to size 18. This increase was  $11/16$  inch on the blouse front and  $9/16$  inch on the blouse back. In the armhole curve depth Brand B varied  $1/16$  inch from size 16 to size 18 on the blouse front and back. Brand A with no variation on the blouse front had a  $1/8$  inch increase on the blouse back. Brand C had an increase on the blouse front of  $1/8$  inch but a decrease on the blouse back of  $1/16$  inch. In Brand H, the blouse front in size 18 was  $1/4$  inch less than in size 16 and the blouse back was  $1/8$  inch greater.

The increase in the length of the center front and center back from size 16 to size 18 varied in the four brands studied in the medium price group. Brand B again had the greatest increase on the blouse front and back. On the blouse front the increase was  $1/2$  inch and on the blouse back  $9/16$  inch. Brand A had the second greatest variation in the measurements of the two sizes. The increase on the blouse front was  $7/16$  inch and on the blouse back was  $5/16$  inch. The full length had the

greatest increase on the blouse front in Brands A and B, and on the blouse back in Brands C and H. Though the full length variation between sizes 16 and 18 was the same in Brands A, C, and H on the blouse back, on the blouse front the variation in Brand C was  $7/16$  inch and in Brand H was  $1/8$  inch greater. Again Brand B had the greatest increase on the slope of shoulder measurement on the blouse back and front. Brand A was second greatest as in the case of the center front length. Brand C was third and Brand H was fourth. In the drop of shoulder measurement Brands A and C were greater by  $3/16$  inch on the blouse front and  $1/16$  inch on the blouse back. While the drop of shoulder on the blouse front of Brand B was  $1/16$  inch less in size 16 than it was in size 18, the blouse back did not vary. Brand H decreased  $1/16$  inch on the blouse front in size 18 and increased on the blouse back. Brand H claimed the greatest increase in the full side length on the blouse front and back. The blouse back was  $7/16$  inch greater and the blouse front was 1 inch greater. The blouse front and back in Brand C were greater by the same amount,  $1/16$  inch. Brand B was second in the increase in the full side length with  $3/8$  inch increase on the blouse front and  $7/16$  inch increase on the blouse back. The least variation was in Brand A which had a  $5/16$  inch increase on the blouse front and  $1/4$  inch increase on the blouse back. The underarm length in Brand A increased  $1/16$  inch on the blouse front and back. In Brand B, the blouse front was  $1/8$  inch greater on the blouse front and  $3/16$  inch greater on the blouse back. The underarm length on the blouse front of Brand C did not vary but was  $1/16$  inch less on the blouse back in size 18. Brand H had the extreme greater variation of  $1\ 1/16$  inches on the blouse front and a  $1/8$  inch greater variation on the blouse back of size 18 in the underarm length measurement.

greatest increase on the blouse front in Brands A and B, and on the blouse back in Brands C and H. Though the full length variation between sizes 16 and 18 was the same in Brands A, C, and H on the blouse back, on the blouse front the variation in Brand C was  $7/16$  inch and in Brand H was  $1/8$  inch greater. Again Brand B had the greatest increase on the slope of shoulder measurement on the blouse back and front. Brand A was second greatest as in the case of the center front length. Brand C was third and Brand H was fourth. In the drop of shoulder measurement Brands A and C were greater by  $3/16$  inch on the blouse front and  $1/16$  inch on the blouse back. While the drop of shoulder on the blouse front of Brand B was  $1/16$  inch less in size 16 than it was in size 18, the blouse back did not vary. Brand H decreased  $1/16$  inch on the blouse front in size 18 and increased on the blouse back. Brand H claimed the greatest increase in the full side length on the blouse front and back. The blouse back was  $7/16$  inch greater and the blouse front was 1 inch greater. The blouse front and back in Brand C were greater by the same amount,  $1/16$  inch. Brand B was second in the increase in the full side length with  $3/8$  inch increase on the blouse front and  $7/16$  inch increase on the blouse back. The least variation was in Brand A which had a  $5/16$  inch increase on the blouse front and  $1/4$  inch increase on the blouse back. The underarm length in Brand A increased  $1/16$  inch on the blouse front and back. In Brand B, the blouse front was  $1/8$  inch greater on the blouse front and  $3/16$  inch greater on the blouse back. The underarm length on the blouse front of Brand C did not vary but was  $1/16$  inch less on the blouse back in size 18. Brand H had the extreme greater variation of  $1\ 1/16$  inches on the blouse front and a  $1/8$  inch greater variation on the blouse back of size 18 in the underarm length measurement.

The waist darts of the blouse front and back had a greater variation in the measurement of the size 18 pattern than in the size 16 pattern in Brand A, and a lesser variation in Brand C. Brand A increased 1 degree on the blouse front and 9 degrees on the blouse back. The blouse front of Brand B increased 3 degrees but the blouse back decreased 1/2 degree. In Brand C, the dart on the blouse front was 1/2 degree less and the one on the blouse back was 1 degree less. While the waist dart of Brand H did not vary on the blouse back, it was 9 degrees less on the blouse front.

There appeared to be the following conclusions in the width and length measurements from the generalizations already cited. Brand A had the greatest increase in shoulder and chest width measurements on the blouse front. On the blouse back Brand B had the greatest increase in width measurements from size 16 to size 18. This increase in Brand B was at least 1 inch greater in all the width measurements. Brand C had the second greatest increase in chest, shoulder, bust, and waist width measurements on the blouse back. The bust and upper bust widths on the blouse front increased the greatest amount in size 18 in Brand B. Brand C had the greatest increase in waist width on the blouse front. With the bust and upper bust width greater on the blouse front and back, it would appear that Brand B had the greatest increase in the total bust measurements of size 18 in the medium price brands. It should not be overlooked that this brand had the least increase in this measurement from size 14 to size 16. The amount of variation between sizes 16 and 18 in the total bust and waist measurements of Brands A and H was less

than the amount suggested by the Bureau of Standards.<sup>17</sup> However, Brand A stated they used the measurements suggested by the Bureau of Standards in grading these sizes, but Brand H stated they did not use these measurements. The center front and center back length, and full back and shoulder slope on the blouse front and back had the greatest increase in size 18 in Brand B. These four measurements on the blouse front in Brand A had the second greatest variation from size 16 to size 18, but on the blouse back Brand H had the second greatest variation in the center front length, and Brand A had the second greatest variation in the slope of shoulder length. In the full length on the blouse back, Brands A and H had the same increase in the measurement of size 18. In the full side length and underarm length, Brand H had the greatest increase on the blouse front and back, Brand B was second, Brand A was third, and Brand C was fourth.

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17. Measurements for Misses' dress patterns suggested by the Bureau of Standards are in Appendix Table XIII.



TABLE XXX

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*			
		Pattern A3	Pattern B3	Pattern C3	Pat
1.	Center front length	.4375	.5000	.2500	
2.	Neck width	.2500	.1250	.2500	
3.	Neck depth	.1250	.1875	.0625	-
4.	Across shoulder	.4375	.2500	.3125	-
5.	Slope of shoulder	.4375	.5625	.3125	
6.	Drop of shoulder	.1875	- .0625	.1875	-
7.	Shoulder seam	.1875	.1250	.1875	
8.	Across chest	.3125	.1250	.4375	
9.	Bust width	.5000	.6250	.3750	
10.	Upper bust width	.5000	.6250	.5000	
11.	Full side length	.3125	.3750	.0625	
12.	Underarm length	.0625	.1250	.0000	
13.	Waist width	.4375	.5000	.5625	-
14.	Armhole curve	.1250	.6875	.1250	
15.	Height of bust	.2500	.3125	.1250	
16.	Armhole curve depth	.0000	.0625	.1250	-
17.	Neck curve depth	.0000	.0000	.0625	
18.	Bust point width	.0625	.0625	.1250	
19.	Full length	.6250	.6875	.4375	
20.	Neck curve	.3750	.2500	.1875	
21.	Dart point to bust point	.0625	--**	--	-
22.	Armhole depth	.1250	.3125	.1875	
23.	Armhole width	.0625	.4375	.1250	
24.	Shoulder to waist	.5000	.7500	.0625	
25.	Waist dart	1.0°	3.0°	- .5°	- 9

\*Variations are given in inches except for variations 25, 47, 48, and which are given in degrees.

-Indicates measurement of size larger pattern was less than size small pattern.

\*\*No measurement was made on that pattern.

TABLE XXX

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Blouse Front

Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Length	.4375	.5000	.2500	.2500
	.2500	.1250	.2500	.0625
	.1250	.1875	.0625	- .0625
Shoulder	.4375	.2500	.3125	- .8750
Shoulder	.4375	.5625	.3125	.2500
Width	.1875	- .0625	.1875	- .0625
Arm	.1875	.1250	.1875	.0000
	.3125	.1250	.4375	.1250
	.5000	.6250	.3750	.1250
Width	.5000	.6250	.5000	.3750
Length	.3125	.3750	.0625	1.0000
Length	.0625	.1250	.0000	1.0625
	.4375	.5000	.5625	- 1.9375
Waist	.1250	.6875	.1250	.2500
Waist	.2500	.3125	.1250	.1250
Waist depth	.0000	.0625	.1250	- .2500
Depth	.0000	.0000	.0625	.0000
Width	.0625	.0625	.1250	.1250
	.6250	.6875	.4375	.1250
	.3750	.2500	.1875	.1875
to bust	.0625	--**	--	- .1250
Waist	.1250	.3125	.1875	.0625
Waist	.0625	.4375	.1250	.2500
Waist	.5000	.7500	.0625	.1250
	1.0°	3.0°	- .5°	- 9.0°

are given in inches except for variations 25, 47, 48, and 49, degrees.

Measurement of size larger pattern was less than size smaller

Measurement was made on that pattern.

TABLE XXX (Continued)

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*		
		Pattern A3	Pattern B3	Pattern C3
26.	Center back length	.3125	.5625	.1875
27.	Neck width	.1875	.8125	.1875
28.	Neck depth	.0000	.0000	1.0625
29.	Across shoulder	.2500	1.1250	.3125
30.	Slope of shoulder	.8125	1.3750	.4375
31.	Drop of shoulder	.0625	.0000	.0625
32.	Shoulder seam	.0625	.2500	.1250
33.	Shoulder draft width	- .1250	1.1250	.0000
34.	Across chest	.2500	1.0000	.3750
35.	Bust width	.4375	1.3750	.6250
36.	Upper bust width	.3125	1.4375	.5625
37.	Full side length	.2500	.4375	.0625
38.	Underarm length	.0625	.1875	- .0625
39.	Waist width	.4375	1.3750	.5625
40.	Armhole curve	.3125	.5625	.3125
41.	Full length	.3125	.5625	.3125
42.	Neck curve	.1250	.8125	.2500
43.	Neck curve depth	.0000	.0000	.0000
44.	Armhole curve depth	.1250	.0625	- .0625
45.	Armhole depth	.1875	.2500	.1875
46.	Armhole width	.1875	.3125	.2500
47.	Shoulder dart	1.0°	.0°	--**
48.	Neck dart	--**	--	- 1.0°
49.	Waist dart	9.0°	- .5°	- 1.0°

TABLE XXX (Continued)

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Blouse Back

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Back length	.3125	.5625	.1875	.3750
h	.1875	.8125	.1875	.1250
h	.0000	.0000	1.0625	-.0625
Shoulder	.2500	1.1250	.3125	.1250
Shoulder	.8125	1.3750	.4375	.3750
Shoulder	.0625	.0000	.0625	.0625
Seam	.0625	.2500	.1250	.0000
Draft	-.1250	1.1250	.0000	.1875
Armhole	.2500	1.0000	.3750	.2500
h	.4375	1.3750	.6250	.3750
Armhole width	.3125	1.4375	.5625	.5000
Armhole length	.2500	.4375	.0625	.4375
Armhole length	.0625	.1875	-.0625	.1250
h	.4375	1.3750	.5625	.3750
Curve	.3125	.5625	.3125	.2500
h	.3125	.5625	.3125	.3125
Armhole	.1250	.8125	.2500	.1250
Curve depth	.0000	.0000	.0000	.0000
Curve depth	.1250	.0625	-.0625	.1250
Depth	.1875	.2500	.1875	.1875
Width	.1875	.3125	.2500	.2500
Dart	1.0°	.0°	---**	--
	---**	--	- 1.0°	- 1.0°
h	9.0°	- .5°	- 1.0°	.0°

TABLE XXX (Continued)

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*			Patt
		Pattern A3	Pattern B3	Pattern C3	
50.	Bicep	.5000	.6250	.6250	
51.	Overarm length	.3750	--**	.7500	
52.	Sleeve cap height	.2500	.2500	.1875	
53.	Overarm to elbow	.3750	--**	.3125	
54.	Underarm length	.2500	--**	.1875	
55.	Overarm length from bicep to elbow	.1250	--**	.0625	
56.	Elbow girth	.3750	--**	1.4375	
57.	Wrist girth	.1250	--**	.3125	
58.	Cap curve	.6875	.9375	.9375	

TABLE XXX (Continued)

VARIATIONS IN GRADING SIZES 16-18 PATTERNS  
MEDIUM PRICE

Sleeve

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Bicep	.5000	.6250	.6250	.4375
Overarm length	.3750	--**	.7500	.3125
Sleeve cap height	.2500	.2500	.1875	.1250
Overarm to elbow	.3750	--**	.3125	.3125
Underarm length	.2500	--**	.1875	.1250
Overarm length from bicep to elbow	.1250	--**	.0625	.1250
Elbow girth	.3750	--**	1.4375	.2500
Wrist girth	.1250	--**	.3125	.2500
Cap curve	.6875	.9375	.9375	.4375

### 3. Size 18-20 patterns.

The variations in grading sizes 18 and 20 patterns by the four different companies in the medium price group are given in Table XXXI.

In grading the neck width on the blouse front, size 20 was  $\frac{1}{8}$  inch less than size 18 in Brand A,  $\frac{3}{16}$  inch greater in Brands B and H, and  $\frac{1}{8}$  inch greater in Brand C. The neck depth of Brand A was  $\frac{1}{8}$  inch greater in size 20,  $\frac{1}{16}$  inch greater in Brands B and H, and  $\frac{1}{16}$  inch less in Brand C. Brands A, C, and H increased  $\frac{1}{16}$  inch in the neck curve measurement while Brand B increased  $\frac{9}{16}$  inch. The neck curve depth measurement in size 20 was  $\frac{1}{16}$  inch less than size 18 in Brand A,  $\frac{1}{8}$  inch less in Brand B,  $\frac{1}{16}$  inch greater in Brand C, and  $\frac{1}{8}$  inch greater in Brand H.

In the width measurements on the blouse front, the across shoulder measurement had no variation in Brand A, a  $\frac{5}{16}$  inch,  $\frac{1}{4}$  inch, and  $\frac{1}{16}$  inch greater variation in Brands B, C, and H respectively. The shoulder seam measurement in size 20 was  $\frac{1}{8}$  inch greater in Brand A,  $\frac{3}{8}$  inch greater in Brand B, and  $\frac{1}{16}$  inch greater in Brands C and H. Across the chest increased  $\frac{1}{16}$  inch in Brand A,  $\frac{5}{16}$  inch in Brand B,  $\frac{1}{4}$  inch in Brand C, and  $\frac{3}{16}$  inch in Brand H from size 18 to size 20. The bust width was  $\frac{9}{16}$  inch greater in Brand A,  $\frac{3}{8}$  inch greater in Brand B,  $\frac{7}{16}$  inch greater in Brand C, and  $\frac{1}{2}$  inch greater in Brand H in size 18 than in size 20. The upper bust width in size 20 increased  $\frac{3}{8}$  inch in Brands A and B,  $\frac{7}{16}$  inch in Brand C, and  $\frac{1}{2}$  inch in Brand H. The waist width of size 20 was  $\frac{5}{8}$  inch greater in Brand A,  $\frac{3}{8}$  inch greater in Brand B,  $\frac{1}{2}$  inch greater in Brand C, and  $\frac{9}{16}$  inch greater in Brand H than size 18.

The armhole depth in size 20 increased  $\frac{1}{8}$  inch in Brand A,  $\frac{5}{16}$

inch in Brand B, and  $1/16$  inch in Brands C and H. The armhole width varied  $7/16$  inch in Brand A,  $3/16$  inch in Brand C, and  $3/8$  inch in Brand H from size 18 to size 20. In Brand B, there was no variation. The armhole curve was  $3/8$  inch greater in Brands A and B, and  $1/4$  inch greater in Brands C and H in size 20. There was a greater variation of  $1/16$  inch in grading the armhole curve depth from size 18 to size 20 in Brands A, B, C, and H. This was the same variation in grading the armhole curve depth measurement from size 14 to size 16 in Brands A, B, and C.

In the length measurements on the blouse front, the center front length of size 20 varied  $3/8$  inch in Brands A and C, and  $1/16$  inch in Brands B and H. The full length of size 20 was  $7/16$  inch greater in Brand A,  $1/8$  inch greater in Brand B,  $1/4$  inch greater in Brand C, and  $3/16$  inch greater in Brand H. The slope of shoulder was  $1/2$  inch greater in Brand A,  $3/16$  inch greater in Brand B,  $1/4$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. There was no variation in the drop of shoulder in Brand A, but in Brand B there was a  $1/8$  inch increase in the measurement, and in Brands C and H there was a  $1/16$  inch increase in the measurement from size 18 to size 20. The full side length in size 20 increased  $5/16$  inch in Brand A,  $3/8$  inch in Brand B,  $3/16$  inch in Brand H, and had no variation in Brand C. The underarm length was  $1/16$  inch greater in size 20 than in size 18 in Brands A and H. Brand B was  $1/16$  inch greater in size 18 than in size 20. Brand C had no variation in the underarm length measurement. The shoulder to waist measurement on size 20 increased  $9/16$  inch in Brand A,  $1/4$  inch in Brand B, and  $3/16$  inch in Brands C and H.

The waist dart on the blouse front was  $1\ 1/2$  degrees greater in



size 20 than in size 18 in Brand A, 3 degrees less in Brand B, and 1 degree less in Brands C and H.

On the blouse back the grading of the neck width from size 18 to size 20 in Brands A, C, and H gave the size 20 pattern a  $1/16$  inch greater measurement, and in Brand B a  $3/16$  inch greater measurement. The neck depth measurement was  $1/16$  inch greater in Brands A, B, and H and  $1\ 1/8$  inches less in Brand C. The neck curve of size 20 was  $1/8$  inch greater in Brand A,  $3/16$  inch greater in Brand B, and  $1/16$  inch greater in Brand H. There was no variation in Brand C. In the neck curve depth measurement of Brands A, B, and H there was no variation. In Brand C, there was a decrease in the measurement of size 20 of  $1/16$  inch.

In the width measurements on the blouse back, the across the shoulder measurement of size 20 was  $1/4$  inch greater than size 18 in Brand A,  $1/8$  inch greater in Brands B and H, and  $3/16$  inch greater in Brand C. The shoulder seam width was  $1/8$  inch greater on the blouse back in Brands A and C,  $1/16$  inch less in Brand B, and  $1/16$  inch greater in Brand H in size 20. The shoulder draft width increased  $9/16$  inch in Brand A,  $1/16$  inch in Brand B,  $1/2$  inch in Brand C, and  $1/8$  inch in Brand H from size 18 to size 20. Across the chest was  $1/4$  inch greater in size 20 of Brands A and B,  $3/16$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. The bust width of size 20 increased  $9/16$  inch in Brand A,  $1/2$  inch in Brands B and C, and  $11/16$  inch in Brand H. The upper bust width was greater by  $5/8$  inch,  $5/16$  inch,  $9/16$  inch, and  $7/16$  inch in Brands A, B, C, and H respectively. The waist width of size 20 increased  $1/2$  inch in Brands A and H, and  $1/8$  inch in Brand C. Brand B was  $3/8$  inch less in the waist of size 20 than in size 18.

The armhole depth on the blouse back was  $1/4$  inch greater in size 20 of Brand A,  $5/16$  inch greater in Brand B,  $3/16$  inch greater in Brand C, and  $1/8$  inch greater in Brand H. In the armhole width measurement size 20 was greater than size 18 by  $1/4$  inch in Brand A, and  $5/16$  inch in Brands B, C, and H. The armhole curve in size 20 was  $7/16$  inch greater in Brands A and C,  $3/8$  inch greater in Brand B, and  $5/16$  inch greater in Brand H. There was no variation in the armhole curve depth of size 20 in the four brands of the medium price group.

On the blouse back, in the center back length measurement of size 20 there was a  $3/8$  inch greater measurement in Brand A, a  $1/4$  inch greater measurement in Brands B and C, and a  $1/8$  inch greater measurement in Brand H. The full length was greater by  $7/16$  inch in Brand A,  $3/8$  inch in Brand B,  $3/16$  inch in Brand C, and  $1/4$  inch in Brand H. The slope of shoulder was  $3/16$  inch,  $1/8$  inch, and  $5/16$  inch greater in Brands B, C, and H respectively. There was no variation in this measurement in Brand A. There was no variation in the measurement of the drop of shoulder in size 18 and size 20 in Brands A, C, and H. In Brand B, the drop of shoulder in size 20 was  $1/4$  inch greater than size 18. The full side length of size 20 had a greater measurement than size 18 of  $5/16$  inch in Brand A,  $3/16$  inch in Brand B, and  $1/4$  inch in Brands C and H. The underarm length in size 20 increased  $1/16$  inch in Brand C and decreased the same amount in Brand B. Brand H increased  $1/8$  inch and Brand A had no variation in this measurement.

The neck dart was used in Brands C and H and increased  $1/2$  degree from the measurements of size 18 in each brand. This increase was the same amount as used in the grading of size 14 and size 16. The waist dart of Brands A and B increased 1 degree and  $1/2$  degree respectively.

There was no variation in the waist dart measurement of size 18 and size 20 in Brands C and H.

The bicep width measurement on the sleeve in size 20 increased  $\frac{1}{2}$  inch in Brands A and H, and  $\frac{5}{8}$  inch in Brands B and C. The sleeve cap height measurement of size 20 was  $\frac{1}{8}$  inch greater in Brand A and Brand H,  $\frac{3}{8}$  inch greater in Brand B, and  $\frac{1}{4}$  inch greater in Brand C. There was an increase in the cap curve measurement of  $\frac{11}{16}$  inch in Brands A, C, and H, and  $\frac{13}{16}$  inch in Brand B. The other sleeve measurements were made on Brands A, C, and H. In overarm length, Brand A and Brand B were  $\frac{3}{8}$  inch greater in size 20 and Brand C was  $\frac{3}{16}$  inch greater. Brands A, C, and H increased  $\frac{3}{16}$  inch,  $\frac{7}{16}$  inch, and  $\frac{1}{8}$  inch respectively in the overarm to elbow length. The underarm length measurement of size 20 was  $\frac{3}{16}$  inch greater in Brand A,  $\frac{1}{16}$  inch greater in Brand C, and  $\frac{1}{4}$  inch greater in Brand H. The overarm length from bicep to elbow increased  $\frac{3}{16}$  inch in Brand C, and  $\frac{1}{16}$  inch in Brand H from size 18 to size 20. Brand A had no variation in this measurement. In Brands A and H, the elbow girth in size 20 was  $\frac{3}{8}$  inch greater than in size 18, and in Brand C it was  $\frac{7}{16}$  inch greater. The wrist girth was greater in size 20 by  $\frac{1}{4}$  inch in Brands A and H, and  $\frac{5}{16}$  inch in Brand C.

The following generalizations from these findings were noted. The total neck curve in size 20 was increased the least in Brand C and the greatest in Brand B. Brand A had the second greatest increase in the measurement of this size and Brand C was third. Brand B increased the across shoulder measurement the greatest amount on the blouse front, but Brand A increased it the greatest amount on the blouse back. The shoulder seam measurement on Brand A increased the same amount,  $\frac{1}{8}$

inch, on the blouse front and back. Brand B was unusual in the shoulder seam measurement because it was  $\frac{3}{8}$  inch greater on the blouse front and  $\frac{1}{16}$  inch less on the blouse back in size 20 than in size 18. Brand H increased the least amount,  $\frac{1}{16}$  inch, on the blouse front and back of all the brands. Across the chest increased the greatest amount on the blouse front and back of Brand B. Brands C and H had a greater increase in size 20 on the blouse front than on the blouse back, while Brand A had a greater increase on the blouse back than on the blouse front. The bust width of Brand A increased the same amount,  $\frac{9}{16}$  inch, on the blouse front and back in size 20. Brand H had the greatest total bust width, Brand A, was second, Brand C was third, and Brand B was fourth. The blouse back increased a greater amount in bust width than the blouse front did in size 20, except in Brand A. Brands A and C had a greater increase in bust width on the blouse back than on the blouse front while Brands B and H had a greater increase on the blouse front than on the blouse back. Brand H had the greatest increase in size 20 upper bust width measurement on the blouse front and Brand A had the greatest increase on the blouse back. Brands A and C had the same increase in the total upper bust width from size 18 to size 20. This was 2 inches in each brand. Brand H was a close second with an increase of  $1\frac{7}{8}$  inches and Brand B was third with an increase of  $1\frac{3}{8}$  inches. The total waist width was the greatest in Brand A. Brand H had the second greatest increase, and Brand C was third. Brand B was unusual with a  $\frac{3}{8}$  inch greater variation on the blouse front and a  $\frac{3}{8}$  inch less variation on the blouse back. This gave a total waist measurement that had no variation between size 18 and size 20.

The armhole depth had an increase of  $\frac{5}{16}$  inch on the blouse

front and back in Brand B which was the greatest variation in the grading from size 18 to size 20 pattern. The armhole depth of Brands A, C, and H had a greater increase in size 20 on the blouse back than on the blouse front. The armhole width variation between size 18 and size 20 was greater on the blouse front in Brands A and H, and greater on the blouse back in Brands B and C. Brand A had the greatest increase on the blouse front which was  $7/16$  inch. Brands B, C, and H had the same variation in armhole width of  $5/16$  inch which was the greatest increase on the blouse back. The armhole curve measurements increased a greater amount on the blouse back than on the blouse front in all brands except Brand B which increased the same amount,  $3/8$  inch, in the front and back. The total armhole curve variation was the greatest in Brand A and the least in Brand H. Brand C had the second greatest increase and Brand B had the third greatest increase in the total armhole curve measurement in size 20. The armhole curve depth increased  $1/16$  inch in size 20 in all brands on the blouse front but had no variation on the blouse back.

The increase in the length measurement of the center front and center back was  $3/8$  inch in Brand A. Brands B and H had a greater increase in the center back length than in the center front length while Brand B had a greater increase in the center front length than in the center back length. The full length measurement increased the same amount,  $7/16$  inch, on the blouse back and front of Brand A. The blouse back had the greater variation in the full length measurement on Brands B and H while the blouse front had the greater variation on Brand C. The variation in the grading of this measurement was the greatest in Brand A. The increase from size 18 to size 20 in Brand B was the same amount,  $3/16$  inch, on the blouse front and back. In all except Brand H,

the increase in the measurement was greater on the blouse front than on the blouse back. Brand A had the greatest increase on the blouse front and Brand H had the greatest increase on the blouse back. Brand H had the least increase on the blouse front and Brand A had no variation on the blouse back. The drop of shoulder had no variation between the two sizes in Brand A on the blouse front or back. Brands C and H had no variation on the blouse back and a  $1/16$  inch greater variation on the blouse front. Brand B increased  $1/8$  inch and  $1/4$  inch on the blouse front and back respectively in the drop of shoulder measurement. In the full side length measurement, Brand A had the same variation between sizes 18 and 20 on the blouse front and back. Brands C and H had a greater variation on the blouse back than on the blouse front and Brand B had the greatest variation on the blouse front. The underarm length was less in size 20 than in size 18 in Brand B by  $1/16$  inch on the blouse front and back. Brand A increased  $1/16$  inch on the blouse front and did not vary on the blouse back. The blouse back on Brand B increased  $1/16$  inch and the blouse front of Brand C did not vary. Brand H was  $1/8$  inch greater on the blouse back and  $1/16$  inch greater on the blouse front in size 20 than in size 18.

The waist dart in size 20 increased  $1\ 1/2$  degrees on the blouse front and 1 degree on the blouse back in Brand A. Brand B was 3 degrees less on the blouse front and  $1/2$  degree greater on the blouse back. In Brands C and H, the waist dart was 1 degree less on the blouse front and did not vary on the blouse back.

There appeared to be the following conclusions in the width and length measurements from the generalizations already cited. Brand B had the greatest increase in shoulder and chest measurements on the

blouse front. On the blouse back, Brand A had the greatest increase in the shoulder and chest measurements. Brand A had the greatest increase in the bust width and waist width on the blouse front but Brand H had the greatest increase in the upper bust width. On the blouse back, the bust and waist widths were greater in Brand H and the upper bust width was greater in Brand A. Brand H had the greater increase,  $2 \frac{3}{8}$  inches, in total bust width from size 18 to size 20. Brand A was second with an increase of  $2 \frac{1}{4}$  inches, Brand C was third with an increase of  $1 \frac{7}{8}$  inches, and Brand B was fourth with an increase of  $1 \frac{3}{4}$  inches. The total waist width of size 20 was greater by  $2 \frac{1}{4}$  inches in Brand A,  $2 \frac{1}{8}$  inches in Brand H,  $1 \frac{1}{4}$  inches in Brand C, and Brand B had no increase or decrease between sizes 18 and 20. The amount of variation between sizes 18 and 20 in the total bust and waist measurements of Brands B and C were less than the amount suggested by the Bureau of Standards.<sup>18</sup> However, both brands stated they used the measurements suggested by the Bureau of Standards in grading these sizes. The length measurements on the blouse front of size 20 were greater on Brand A with the exception of the drop of the shoulder and full side length. Brand B was greater in these two measurements. Brand C had the second greatest increase in measurements of size 18 and size 20 on the blouse front except for the full side length and underarm length which had no increase. Brand B had the third greatest increase in the length measurements except in the full side length, full length, and drop of shoulder. Brand H had the least variation in all length measurements except the shoulder to waist,

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18. Measurements for Misses' dress patterns suggested by the Bureau of Standards are in Appendix Table XIII.

full side length, and underarm length. On the blouse back, the center back and full length measurements increased more in Brand A than in any other brand. Brand B had the second greatest increase. Brand C had the third greatest increase in center back length but Brand H had the third greatest full back length of these two brands. The slope of shoulder between the measurements of the two sizes was greatest in Brand H, the drop of shoulder was greatest in Brand B, and the full side length was greatest in Brand A. Brand A had no variation in the slope of shoulder, drop of shoulder, and underarm length measurements.



TABLE XXXI

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Variations*			
		Pattern A3	Pattern B3	Pattern C3	Pat
1.	Center front length	.3750	.0625	.3750	
2.	Neck width	- .1250	.1875	.1250	
3.	Neck depth	.1250	.0625	- .0625	
4.	Across shoulder	.0000	.3125	.2500	
5.	Slope of shoulder	.5000	.1875	.2500	
6.	Drop of shoulder	.0000	.1250	.0625	
7.	Shoulder seam	.1250	.3750	.0625	
8.	Across chest	.0625	.3125	.2500	
9.	Bust width	.5625	.3750	.4375	
10.	Upper bust width	.3750	.3750	.4375	
11.	Full side length	.3125	.3750	.0000	
12.	Underarm length	.0625	- .0625	.0000	
13.	Waist width	.6250	.3750	.5000	
14.	Armhole curve	.3750	.3750	.2500	
15.	Height of bust	.1875	.0000	.2500	
16.	Armhole curve depth	.0625	.0625	.0625	
17.	Neck curve depth	- .0625	- .1250	.0625	
18.	Bust point width	.1875	.7500	- 1.1875	
19.	Full length	.4375	.1250	.2500	
20.	Neck curve	.0625	.5625	.0625	
21.	Dart point to bust point	.0625	--**	--	
22.	Armhole depth	.1250	.3125	.0625	
23.	Armhole width	.4375	.0000	.1875	
24.	Shoulder to waist	.5625	.1250	.1875	
25.	Waist dart	1.5°	- 3.0°	- 1.0°	-

\*Variations are given in inches except for variations 25, 47, 48, and 49 which are given in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.

TABLE XXXI

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Blouse Front

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Center front length	.3750	.0625	.3750	.0625
Neck width	- .1250	.1875	.1250	.1875
Neck depth	.1250	.0625	- .0625	.0625
Cross shoulder	.0000	.3125	.2500	.0625
Depth of shoulder	.5000	.1875	.2500	.1250
Depth of shoulder	.0000	.1250	.0625	.0625
Shoulder seam	.1250	.3750	.0625	.0625
Cross chest	.0625	.3125	.2500	.1875
Arm width	.5625	.3750	.4375	.5000
Upper bust width	.3750	.3750	.4375	.5000
Left side length	.3125	.3750	.0000	.1875
Upper arm length	.0625	- .0625	.0000	.0625
Arm width	.6250	.3750	.5000	.5625
Armhole curve	.3750	.3750	.2500	.2500
Height of bust	.1875	.0000	.2500	.0000
Armhole curve depth	.0625	.0625	.0625	.0625
Neck curve depth	- .0625	- .1250	.0625	.1250
Arm point width	.1875	.7500	- 1.1875	.1250
Arm length	.4375	.1250	.2500	.1875
Neck curve	.0625	.5625	.0625	.0625
Arm point to bust				
Armhole depth	.0625	--**	--	.0000
Armhole width	.1250	.3125	.0625	.0625
Shoulder to waist	.4375	.0000	.1875	.3750
Armhole dart	.5625	.1250	.1875	.1875
Armhole dart	1.5°	- 3.0°	- 1.0°	- 1.0°

Variations are given in inches except for variations 25, 47, 48, and 49, given in degrees.

Minus sign indicates measurement of size larger pattern was less than size smaller

pattern. measurement was made on that pattern.

TABLE XXXI (Continued)

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Variations*			Pa
		Pattern A3	Pattern B3	Pattern C3	
26.	Center back length	.3750	.2500	.2500	
27.	Neck width	.0625	.1875	.0625	
28.	Neck depth	.0625	.0625	- 1.1250	
29.	Across shoulder	.2500	.1250	.1875	
30.	Slope of shoulder	.0000	.1875	.1250	
31.	Drop of shoulder	.0000	.2500	.0000	
32.	Shoulder seam	.1250	- .0625	.1250	
33.	Shoulder draft width	.6875	.0625	.5000	
34.	Across chest	.2500	.2500	.1875	
35.	Bust width	.5625	.5000	.5000	
36.	Upper bust width	.6250	.3125	.5625	
37.	Full side length	.3125	.1875	.2500	
38.	Underarm length	.0000	- .0625	.0625	
39.	Waist width	.5000	- .3750	.1250	
40.	Armhole curve	.4375	.3750	.4375	
41.	Full length	.4375	.3750	.1875	
42.	Neck curve	.1250	.1875	.0000	
43.	Neck curve depth	.0000	.0000	- .0625	
44.	Armhole curve depth	.0000	.0000	.0000	
45.	Armhole depth	.2500	.3125	.1875	
46.	Armhole width	.2500	.3125	.3125	
47.	Shoulder dart	.0°	.0°	--**	
48.	Neck dart	--**	--	.5°	
49.	Waist dart	1.0°	.5°	.0°	

TABLE XXXI (Continued)

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Blouse Back

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Center back length	.3750	.2500	.2500	.1250
Neck width	.0625	.1875	.0625	.0625
Neck depth	.0625	.0625	- 1.1250	.0625
Across shoulder	.2500	.1250	.1875	.1250
Slope of shoulder	.0000	.1875	.1250	.3125
Drop of shoulder	.0000	.2500	.0000	.0000
Shoulder seam	.1250	- .0625	.1250	.0625
Shoulder draft width	.6875	.0625	.5000	.1250
Across chest	.2500	.2500	.1875	.1250
Bust width	.5625	.5000	.5000	.6875
Upper bust width	.6250	.3125	.5625	.4375
Full side length	.3125	.1875	.2500	.2500
Underarm length	.0000	- .0625	.0625	.1250
Waist width	.5000	- .3750	.1250	.5000
Armhole curve	.4375	.3750	.4375	.3125
Full length	.4375	.3750	.1875	.2500
Neck curve	.1250	.1875	.0000	.0625
Neck curve depth	.0000	.0000	- .0625	.0000
Armhole curve depth	.0000	.0000	.0000	.0000
Armhole depth	.2500	.3125	.1875	.1250
Armhole width	.2500	.3125	.3125	.3125
Shoulder dart	.0°	.0°	--**	--
Neck dart	--**	--	.5°	.5°
Waist dart	1.0°	.5°	.0°	.0°

TABLE XXXI (Continued)

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Sleeve

Number	Name of Measurement	Variations*			Pa
		Pattern A3	Pattern B3	Pattern C3	
50.	Bicep	.5000	.6250	.6250	
51.	Overarm length	.3750	--**	.1875	
52.	Sleeve cap height	.1250	.3750	.2500	
53.	Overarm to elbow	.1875	--**	.4375	
54.	Underarm length	.1875	--**	.0625	
55.	Overarm length from bicep to elbow	.0000	--**	.1875	
56.	Elbow girth	.3750	--**	.4375	
57.	Wrist girth	.2500	--**	.3125	
58.	Cap curve	.6875	.8125	.6875	

TABLE XXXI (Continued)

VARIATIONS IN GRADING SIZES 18-20 PATTERNS  
MEDIUM PRICE

Sleeve

Name of Measurement	Variations*			
	Pattern A3	Pattern B3	Pattern C3	Pattern H3
Bicep	.5000	.6250	.6250	.5000
Overarm length	.3750	--**	.1875	.3750
Sleeve cap height	.1250	.3750	.2500	.1250
Overarm to elbow	.1875	--**	.4375	.1250
Underarm length	.1875	--**	.0625	.2500
Overarm length from bicep to elbow	.0000	--**	.1875	.0625
Elbow girth	.3750	--**	.4375	.3750
Wrist girth	.2500	--**	.3125	.2500
Cap curve	.6875	.8125	.6875	.6875

Comparison of the Mean Variations  
in Selected Measurements of Misses' Patterns Before and After  
The Establishment of Standards for Measurements of Dress Patterns  
by the Bureau of Standards

In order to compare variations in pattern measurements prior to the establishment of Commercial Standards for Dress Patterns it was necessary to use measurements in sizes which were common to Caroline Barnes Little's study in 1928, the Bureau of Standards' measurements, and the present data collection. The total neck curve,<sup>19</sup> total bust width,<sup>20</sup> and total waist width<sup>21</sup> were the only measurements which were taken by similar procedure and in the same location in Little's study, the Bureau of Standards' measurements and this present study. Since Little used only sizes 14, 16, and 18 in the Misses' size group it was necessary in making this comparison between the variations in measurements before and after the establishment of the Bureau of Standards' measurements to limit the sizes to these three.

The amount of variation between pattern measurements and physical measurements was found by Caroline Barnes Little<sup>22</sup> in 1928. This was prior to the establishment of Commercial Standards for Dress Patterns by the Bureau of Standards. The amount of variation between pattern measurements and the Basic pattern was found in this present study.

The measurements for drafting the Basic pattern used in

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19. Stated as "neck girth" in Little's study.

20. Stated as "bust" in Little's study.

21. Stated as "waist" in Little's study.

22. Caroline Barnes Little, A Comparative Study of the Sizes of Commercial Dress Patterns. Master's Thesis. The University of Minnesota. 1928. p. 1.

determining these variations were based on measurements taken "from average-sized dress forms manufactured by the Wolf Form Company of New York."<sup>23</sup> According to the measurements in M. Rohr's manual on Pattern Drafting and Grading which are "compiled in accordance with those issued by the Bureau of Standards,"<sup>24</sup> the measurements used in drafting Pivnick's Basic pattern<sup>25</sup> do not correspond to the measurements issued by the Bureau of Standards. The measurements used by Pivnick and Rohr appear in Table XXXII. All of the measurements used by Pivnick are

TABLE XXXII

COMPARISON OF DRAFTING MEASUREMENTS USED BY ROHR AND PIVNICK  
IN DRAFTING THREE MEASUREMENTS ON THEIR BASIC PATTERN

Name of Measure- ment	Basic Pattern Measurements*					
	Size 14		Size 16		Size 18	
	Rohr <sup>26</sup>	Pivnick <sup>27</sup>	Rohr	Pivnick	Rohr	Pivnick
Total neck curve	13 1/4	14 1/4	13 3/4	14 3/4	14 3/8	15 1/4
Total bust width	34	37 1/2	36	39	38	40 1/2
Total waist width	26 1/2	27 1/2	38	29	30	30 1/2

\*Measurements are given in inches.

greater than those used by Rohr.

Since the measurements of the Bureau of Standards are based on a practical compromise of anthropometric measurements, experience of dress

23. Esther Kaplan Pivnick, How to Design Beautiful Clothes. New York: Wm. H. Wise & Company, Inc., 1949. p. 303.

24. M. Rohr, Pattern Drafting and Grading. New York: M. Rohr, 240 98th St., 1948. p. (inside front cover).

25. Pivnick, op. cit., p. 305.

26. Rohr, op. cit., p. (inside front cover).

27. Pivnick, op. cit., p. 305.



pattern manufacturers in their commercial practice, and data covered by Miscellaneous Publication 454, Women's Measurements for Garment and Pattern Construction, they should represent the physical measurements of the human body at the present time. Taking this into consideration, it was decided to determine the amount of variation between the measurements found in this study and those compiled by Rohr from the Bureau of Standards' measurements. These variations are given in Table XXXIII.

TABLE XXXIII

MEASUREMENTS OF COMMERCIAL PATTERNS  
AND THE VARIATIONS OF THESE MEASUREMENTS  
FROM THE BUREAU OF STANDARDS' MEASUREMENTS<sup>28</sup>

Pattern	Size					
	14		16		18	
	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
<u>Total Neck Curve</u>						
A3	14.2500	± 1.0000	14.3750	± .6250	15.3750	± 1.1875
B3	15.6250	± 2.3750	14.5000	± .7500	16.6250	± 2.4375
C3	13.7500	± 2.5000	14.0000	± .2500	14.8750	± .6875
H3	12.1250	- 1.1250	14.7500	± 1.0000	15.3750	± 1.1875
<u>Total Bust Width</u>						
A3	38.0000	± 4.0000	40.2500	± 4.2500	42.1250	± 4.1250
B3	37.5000	± 3.5000	38.2500	± 2.2500	42.2500	± 4.2500
C3	36.0000	± 2.0000	37.8750	± 1.8750	39.8750	± 1.8750
H3	37.3750	± 3.3750	39.7500	± 3.7500	40.7500	± 2.7500
<u>Total Waist Width</u>						
A3	26.0000	- .5000	28.2500	± .2500	30.0000	.0000
B3	28.0000	± 1.5000	28.1250	± .1250	31.8750	± 1.8750
C3	26.5000	.0000	27.7500	- .2500	30.0000	.0000
H3	26.5000	.0000	33.1250	± 5.1250	30.0000	.0000

\*Measurements and variations are given in inches.

28. Bureau of Standards' measurements as compiled by Rohr were used in compiling the variations in this table.

The mean variation in each size for each measurement was derived from the data collection as shown in Table XXXIV. Measurements and variations in the three sizes from four styles were used in this present study since only a limited number of styles were selected in different sizes.

TABLE XXXIV

MEAN VARIATIONS BETWEEN THE MEASUREMENTS ON COMMERCIAL PATTERNS  
IN DATA COLLECTION AND THE MEASUREMENTS COMPILED  
FROM THE BUREAU OF STANDARDS' MEASUREMENTS<sup>29</sup>

Measurement	Variations*		
	Size 14	Size 16	Size 18
Total neck curve	‡ .6875	‡ .6563	‡ 1.3750
Total bust width	‡ 3.2188	‡ 3.0313	‡ 3.2500
Total waist width	‡ .2500	‡ 1.5625	‡ .4688

\*Variations are given in inches.

‡Indicates variation was greater than the physical measurement.

The mean variations in Little's thesis were given for each measurement in sizes 14, 16, and 18 on the two styles of patterns used for the study. From these mean variations the average mean variation of the two styles in each Misses' size was determined for use in making this comparison.

The mean variation of the present study and the mean variation derived from Little's study for the corresponding measurements are shown in Table XXXV. A comparison of the mean variations indicates a greater amount of variation in the total neck curve measurement at the present time than in 1928. Measurements from Little's study in sizes 14 and 16

29. Bureau of Standards' measurements as compiled by Rohr were used in compiling the variations in this table.

TABLE XXXV

COMPARISON OF THE MEAN VARIATIONS  
IN THE MEASUREMENTS OF MISSES' PATTERNS  
BEFORE AND AFTER<sup>30</sup> THE ESTABLISHMENT OF COMMERCIAL STANDARDS  
FOR MEASUREMENTS OF DRESS PATTERNS

Name of Measure- ment	Variations*					
	Size 14		Size 16		Size 18	
	Before <sup>31</sup>	After	Before <sup>31</sup>	After	Before <sup>31</sup>	After
Total neck curve <sup>32</sup>	- .52	± .69	- .19	± .66	± .65	± 1.38
Total bust width <sup>33</sup>	± 5.13	± 3.22	± 5.88	± 3.03	± 7.83	± 3.25
Total waist width <sup>34</sup>	± 12.44	± .25	± 13.59	± 1.56	± 15.88	± .47

\*Variations are given in inches.

±Indicates variation was greater than the physical measurement.

-Indicates variation was less than the physical measurement.

were less than the physical measurement used in making the comparison.

Size 18 had a greater measurement in the total neck curve on the pattern than the physical measurement used in the determination. The amount of variation in 1928 was less than 1/2 inch in size 16 and greater than 1/2 inch in sizes 14 and 18. The amount of variation found in this study was slightly greater than 1/2 inch in sizes 14 and 16 and more than 1 1/4 inches greater in size 18.

30. Variations used before the establishment of Commercial Standards were those of Little in 1928. Variations of this study were used to make the comparison after the establishment of Commercial Standards.

31. Little, *op. cit.*, p. 56.

32. Stated as "neck girth" in Little's study.

33. Stated as "bust" in Little's study.

34. Stated as "waist" in Little's study.

There was a decrease in the amount of variation in total bust width since the Bureau of Standards' measurement was established. Before these standards there was a greater variation of approximately 5 inches in size 14,  $5 \frac{3}{4}$  inches in size 16, and  $7 \frac{3}{4}$  inches in size 18. The findings of this study in 1949-50 showed approximately 3 inches greater variation in the pattern measurements than in the Bureau of Standards' measurements.

The total waist width variation before the Bureau of Standards' measurements was approximately  $12 \frac{1}{2}$  inches greater in size 14,  $13 \frac{1}{2}$  inches greater in size 16, and  $15 \frac{3}{4}$  inches greater in size 18. After the establishment of the Bureau of Standards' measurements the variation was  $\frac{1}{4}$  inch greater in size 14,  $1 \frac{1}{2}$  inches greater in size 16, and  $\frac{1}{2}$  inch greater in size 18. This showed a definite decrease in the amount of variation between the waist width on the pattern and the physical measurement. It should not be overlooked that the fashion designs of 1928 showed a dress that was fitted very little through the waist as compared with the snug fitted waist line which was the fashion in 1949-50. This factor may be a partial explanation for the greater variation which existed before the Bureau of Standards' measurements were established.

A Comparison of the Mean Variations  
from the Basic Pattern in the Measurements of Size 16 Patterns  
between Companies Accepting and Using Commercial Standards  
and Those Not Accepting and Using These Standards

In order to determine whether the acceptance and use of Commercial Standards affects the amount of variation, the mean variations from the Basic pattern of the measurements of size 16 patterns in Brands A, B, C, D, and F which had accepted and used Commercial Standards were calculated. The mean variations from the Basic pattern of the measurements of size 16 patterns in Brands E, G, and H which had not accepted and used Commercial Standards were calculated. A comparison of these mean variations is given in Table XXXVI.

In the neck measurements on the blouse front the amount of variation in the neck width, neck depth, and neck curve was less in the Brands accepting Commercial Standards than in those not accepting the Standards. The amount of variation in the neck curve depth was greater in the Brands accepting and using Commercial Standards.

In the width measurements on the blouse front the across shoulder, bust width, and waist width variations were less in the brands which had accepted Commercial Standards. The shoulder seam, across chest, and upper bust width had the least amount of variation in the brands which had not accepted and used Commercial Standards. The amount of variation was less than the Basic pattern in the upper bust width and waist width in the brands not accepting and using Commercial Standards. All other variations in width measurements were greater than the Basic pattern.

The armhole curve, armhole depth and armhole width variations on the blouse front were less in the brands which had not accepted and

used Commercial Standards. The armhole curve depth variation was greater in the brands which had not accepted and used Commercial Standards. The amount of variation was greater than the Basic pattern in all armhole measurements except the armhole curve depth. This was less than the Basic pattern in brands accepting and using Commercial Standards and brands not accepting and using Commercial Standards.

In the length measurements on the blouse front, the brands not accepting and using Commercial Standards had the least amount of variation in all measurements except the full length and underarm length. These variations were greater in the brands not accepting the Commercial Standards. All variations in the length measurements were greater than the Basic pattern except the underarm length. This was less than the Basic pattern in brands accepting and using the Standards and in brands not accepting and using the Standards.

The waist dart variation on the blouse front was greater in the brands accepting the Commercial Standards. The variation was less than the Basic pattern in brands accepting and using the Standards and in brands not accepting and using the Standards.

In the neck measurements on the blouse back, the greatest variations in the neck width, neck depth, neck curve, and neck curve depth were in the brands accepting and using the Commercial Standards. The variation in the neck width in the brands accepting Commercial Standards and the variation of the neck curve depth in the brands not accepting and using Commercial Standards were greater than the Basic pattern. All other variations in the neck measurements were less than the Basic pattern.

In the width measurements on the blouse back, the variation of

the across shoulder, shoulder seam, shoulder draft width, and across chest was greater in the brands not accepting and using Commercial Standards by a greater variation than the Basic pattern. The bust width, upper bust width, and waist width variations were greater in the brands accepting and using Commercial Standards. The variations in the bust and waist measurements were less than the Basic pattern in brands accepting and using Commercial Standards.

The armhole width and armhole depth variations on the blouse back were greater in the brands accepting and using Commercial Standards. The amount of variation in the armhole curve and armhole curve depth was greater in the brands not accepting and using Commercial Standards. The armhole width variations were less than the Basic pattern in brands accepting and not accepting the Commercial Standards. The armhole curve depth was less than the Basic pattern in brands accepting and using Commercial Standards. All other variations in armhole measurements were greater than the Basic pattern.

In the length measurements on the blouse back, the center back length, full side length, and full length had the greatest amount of variation in the brands accepting the Commercial Standards. The amount of variation in the slope of shoulder, drop of shoulder, and underarm length was greatest in the brands not accepting and using Commercial Standards. The variation in the drop of shoulder and underarm length was less than the Basic pattern but the variation in the other length measurements was greater than the Basic pattern.

The amount of variation in the shoulder dart and waist dart on the blouse back was greater in the brands not accepting and using Commercial Standards. All dart variations were greater than the Basic

pattern.

In the sleeve measurements the amount of variation in the bicep, overarm to elbow, underarm length, and underarm length from bicep to elbow was greater in the brands accepting and using Commercial Standards. The variation in the overarm length, sleeve cap height, elbow girth, wrist girth, and cap curve was greater in the brands not accepting and using Commercial Standards. The variations in the bicep, overarm length, underarm length, and elbow girth were less than the Basic pattern. All other sleeve measurement variations were greater than the Basic pattern.

The following general likenesses and differences were noted in the mean variations of the neck measurements on the blouse front and back of brands accepting and using Commercial Standards and brands not accepting and using Commercial Standards. The neck curve depth variation was greater on the blouse front and back in brands accepting and using Commercial Standards. In all other neck measurements, when the amount of variation was greater on the blouse front in brands accepting Commercial Standards the variation on the blouse back was greater in the brands not accepting Commercial Standards and vice versa. The amount of variation in the total neck curve was greater in the brands not accepting and using Commercial Standards.

General likenesses and differences noted in the mean variations of the width measurements on the blouse front and back of brands accepting and using Commercial Standards and brands not accepting and using Commercial Standards include the following: In the across shoulder measurement the amount of variation was greater in brands not accepting and using Commercial Standards on the blouse front and back. In the shoulder seam and across chest measurements the amount of variation on



the blouse front was greater in the brands accepting and using Commercial Standards. On the blouse back these measurements had the greatest amount of variation in the brands not accepting and using Commercial Standards. The variation in the bust width was greater on the blouse front in the brands not accepting and using Commercial Standards and greater on the blouse back in the brands accepting and using Commercial Standards. The amount of variation in the upper bust width was greater on the blouse front and back in the brands accepting and using Commercial Standards. The amount of variation in the waist width was greater on the blouse front and back in the brands not accepting and using Commercial Standards. The amount of variation in the total bust width was greater in the brands not accepting and using Commercial Standards. The amount of variation in the total upper bust width and waist width was greater in the brands accepting and using Commercial Standards.

The following general likenesses and differences were noted in the mean variations of the armhole measurements on the blouse front and back of brands accepting and using Commercial Standards and brands not accepting and using Commercial Standards. The armhole depth and width measurements had the greatest amount of variation in the brands accepting Commercial Standards on the blouse front and back. The armhole curve depth had the greatest amount of variation in the brands not accepting and using Commercial Standards. The armhole curve had the greatest amount of variation on the blouse front in the brands accepting Commercial Standards. On the blouse back the greatest amount of variation was in the brands not accepting Commercial Standards. The greatest amount of variation in the total armhole curve was in the brands not accepting the Commercial Standards.

The following general likenesses and differences were noted in the mean variations of the length measurements on the blouse front and back of brands accepting and using Commercial Standards and brands not accepting and using Commercial Standards. The amount of variation in the center front length, center back length, and full side length was greater in brands accepting Commercial Standards. The variation of the slope of shoulder and drop of shoulder was greater on the blouse front in brands accepting Commercial Standards. On the blouse back these measurements had the greater variation in brands not accepting Commercial Standards. The amount of variation in the underarm length was greater on the blouse front and back in the brands not accepting Commercial Standards. The amount of variation in the full length was greater in the brands not accepting Commercial Standards on the blouse front and in the brands accepting Commercial Standards on the blouse back.

The amount of variation in the waist dart on the blouse front was greatest in the brands accepting and using Commercial Standards. On the blouse back the greatest amount of variation in the waist dart was in the brands not accepting and using Commercial Standards. The variations on the blouse front were less than the Basic pattern. On the blouse back the variations were greater than the Basic pattern.

From these findings it seemed that the greater variation in armhole width and sleeve bicep width in the brands accepting Commercial Standards might be related. The greater variation in the armhole depth in the brands accepting Commercial Standards and the greater variation in the sleeve cap height in brands not accepting Commercial Standards appeared unusual. It seemed that the greater cap curve and greater

total armhole curve in the brands not accepting Commercial Standards might be related.

Out of the fifty-eight measurements on the patterns studied, the brands accepting and using Commercial Standards had thirty measurements which had greater amounts of variation than brands not accepting Commercial Standards. The brands not accepting and using Commercial Standards had twenty-seven measurements which had the greatest amount of variation. No variation was recorded for the neck dart measurements. Since the number of greater variations was larger in the brands accepting Commercial Standards it seems that the acceptance and use of Commercial Standards has not had too much influence on the amount of variation in patterns of the companies which have accepted Commercial Standards.

TABLE XXXVI

A COMPARISON OF THE MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BETWEEN COMPANIES ACCEPTING AND USING COMMERCIAL STANDARDS  
AND THOSE NOT ACCEPTING AND USING THESE STANDARDS

Blouse Front

Number	Name of Measurement	Variations*	
		Acceptors <sup>33</sup>	Non-acceptors <sup>34</sup>
1.	Center front length	± .0347	± .0333
2.	Neck width	± .1667	± .3516
3.	Neck depth	± .1910	± .4533
4.	Across shoulder	± .7847	± .8906
5.	Slope of shoulder	± .4167	± .1016
6.	Drop of shoulder	± .2569	± .1719
7.	Shoulder seam	± .7708	± .6719
8.	Across chest	± .2778	± .1406
9.	Bust width	± .3368	± .4181
10.	Upper bust width	± .0694	- .0625
11.	Full side length	± 4.3507	± 4.0547
12.	Underarm length	- .7847	- .9922
13.	Waist width	± .1007	- .2109
14.	Armhole curve	± .4583	± .2344
15.	Height of bust	± .0174	± .0156
16.	Armhole curve depth	± .2569	± .8734
17.	Neck curve depth	- .1354	- .0333
18.	Bust point width	- .0729	- .0078
19.	Full length	± .3264	± .4219
20.	Neck curve	± .3993	± .5078
21.	Dart point to bust point	± .7000	± 1.2813
22.	Armhole depth	± 1.1319	± .9844
23.	Armhole width	- .7813	- .5000
24.	Shoulder to waist	± .5139	± .5703
25.	Waist dart	- 4.6°	- 1.3°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the Basic pattern.

±Indicates variation was greater than the Basic pattern.

\*\*No measurement was made on that pattern.

33. Acceptors and users of Commercial Standards include Brands A, B, C, D, and F.

34. Non-acceptors and non-users of Commercial Standards include Brands E, G, and H.

TABLE XXXVI (Continued)

A COMPARISON OF THE MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BETWEEN COMPANIES ACCEPTING AND USING COMMERCIAL STANDARDS  
AND THOSE NOT ACCEPTING AND USING THESE STANDARDS

Blouse Back

Number	Name of Measurement	Variations*	
		Acceptors <sup>33</sup>	Non-acceptors <sup>34</sup>
26.	Center back length	± .3194	± .0781
27.	Neck width	± .3472	- .1250
28.	Neck depth	- .1875	- .0391
29.	Across shoulder	± .4757	± .6484
30.	Slope of shoulder	± .5625	± 1.0078
31.	Drop of shoulder	- .3438	- .4766
32.	Shoulder seam	± .6319	± .6406
33.	Shoulder draft width	± .3611	± .4219
34.	Across chest	± .1424	± .1563
35.	Bust width	- .4097	- .0234
36.	Upper bust width	- .6736	- .3750
37.	Full side length	± .2674	± .1953
38.	Underarm length	- .6910	- .7031
39.	Waist width	- .5521	- .1719
40.	Armhole curve	± .4340	± .5078
41.	Full length	± .0694	± .0391
42.	Neck curve	- .4236	- .1875
43.	Neck curve depth	- .1042	± .0078
44.	Armhole curve depth	- .0174	± .0391
45.	Armhole depth	± .9861	± .7813
46.	Armhole width	- .9792	- .7969
47.	Shoulder dart	± .4°	± 1.0°
48.	Neck dart	--**	--**
49.	Waist dart	± 1.9°	± 4.1°

TABLE XXXVI (Continued)

A COMPARISON OF THE MEAN VARIATIONS  
FROM THE BASIC PATTERN IN THE MEASUREMENTS OF SIZE 16 PATTERNS  
BETWEEN COMPANIES ACCEPTING AND USING COMMERCIAL STANDARDS  
AND THOSE NOT ACCEPTING AND USING THESE STANDARDS

Sleeve

Number	Name of Measurement	Variations*	
		Acceptors <sup>33</sup>	Non-acceptors <sup>34</sup>
50.	Bicep	- .2259	- .2031
51.	Overarm length	- .3295	- .5875
52.	Sleeve cap height	± .5625	± .8156
53.	Overarm to elbow	± .8011	± .6500
54.	Underarm length	- .8910	- .8250
55.	Underarm length from bicep to elbow	± .2159	± .2000
56.	Elbow girth	- 1.2438	- 1.2625
57.	Wrist girth	± .5208	± 1.4750
58.	Cap curve	± .1632	± .2422

A Comparison  
of the Mean Variations from the Basic Pattern  
in Printed Patterns and Perforated Patterns in Size 16

In order to determine whether the printing of patterns affected the amount of variation, the mean variations from the Basic pattern of the measurements of size 16 patterns in Brands A and H which had produced printed patterns were calculated. The mean variations from the Basic pattern of the measurements of size 16 patterns in Brands B, C, D, E, F, and G, which produced perforated patterns were calculated. A comparison of these mean variations is given in Table XXXVII.

In the neck measurements on the blouse front the amount of variation in the neck width, neck depth, and neck curve was greater in the printed patterns. The neck curve depth variation was greater in the perforated patterns. The neck curve depth variation was less than the Basic pattern. All other neck measurement variations were greater than the Basic pattern.

In the width measurements on the blouse front the printed patterns had the greatest amount of variation in all measurements. The upper bust width in the perforated patterns and waist width in the printed patterns had variations which were less than the Basic pattern. All other width measurements were greater than the Basic pattern.

The amount of variation in the armhole depth, armhole width, and armhole curve measurements on the blouse front was greater in the perforated patterns. The armhole curve depth had the greatest amount of variation in the printed patterns. The variations in armhole width were less than the Basic pattern. All other armhole measurements were greater than the Basic pattern.

In the length measurements on the blouse front, the center front

length, drop of shoulder, underarm length, full length, and shoulder to waist had the greatest amount of variation in the printed patterns. The slope of shoulder and full side length variations were greater in the perforated patterns. The center front length in the perforated patterns and the underarm length in the printed and perforated patterns had variations which were less than the Basic pattern. The variations in the other length measurements were greater than the Basic pattern.

The waist dart variation on the blouse front was greater in the perforated patterns. The variation was less than the Basic pattern in printed and perforated patterns.

In the neck measurements on the blouse back, the greatest variation in the neck width was in the perforated patterns. The greatest variation in the neck depth, neck curve, and neck curve depth was in the printed patterns. The variations in all neck measurements were less than the Basic pattern.

In the width measurements on the blouse back the across shoulder, shoulder seam, shoulder draft width, across chest, and waist width had the greatest amount of variation in the printed patterns. The bust width and upper bust width had the greatest amount of variation in the perforated patterns. The variations in the bust and upper bust widths were less than the Basic pattern. All other width measurements were greater than the Basic pattern.

The amount of variation in the armhole measurements on the blouse back was greater in the armhole depth, armhole width, and armhole curve in the perforated patterns. The amount of variation in the armhole depth measurement was greater in the printed patterns. The armhole width variation in the printed and perforated patterns and the armhole



curve depth variation in the printed patterns were less than the Basic pattern. All other armhole measurements were greater than the Basic pattern.

In the length measurements on the blouse back, the center back length and slope of shoulder had the greatest amount of variation in the printed patterns. The drop of shoulder, full side length, underarm length, and full length had the greatest amount of variation in the perforated patterns. The variations in the drop of shoulder and underarm length were less than the Basic pattern. All other variations in length measurements were greater than the Basic pattern.

The amount of variation in the shoulder dart was greater in the perforated patterns. The greater amount of variation in the waist dart was in the printed patterns. The variations in the waist and shoulder darts were greater than in the Basic pattern.

In the sleeve measurements, the amount of variation in the bicep, overarm length, underarm length, elbow girth, and wrist girth was greatest in the printed patterns. The sleeve cap height, overarm to elbow, underarm length from bicep to elbow, and cap curve had the greatest amount of variation in the perforated patterns. The bicep, overarm length, and elbow girth measurements in the printed and perforated patterns and the underarm length measurement in printed patterns had variations which were less than the Basic pattern. All other variations in measurements were greater than the Basic pattern.

The following general likenesses and differences were noted in the mean variations of the neck measurements on the blouse front and back in printed and perforated patterns. The neck width had the greatest variation in the printed patterns on the blouse front and the

perforated patterns on the blouse back. The variation in the neck depth and neck curve was greater in the printed patterns on the blouse front and back. The neck curve depth variation was greater in the perforated patterns on the blouse front and in the printed patterns on the blouse back. The variation in the total neck curve was greater in the printed patterns.

General likenesses and differences noted in the mean variations of the width measurements on the blouse front and back of printed and perforated patterns included the following. The across shoulder, shoulder seam, across chest, and waist width variations were greater in the printed patterns on the blouse front and back. The upper bust and bust width variations were greater on the printed patterns on the blouse front and back. The upper bust and bust width variations were greater on the printed patterns on the blouse front and greater on the perforated patterns on the blouse back. The total bust width and waist width variations were greater in the printed patterns. The total upper bust width was greater in the perforated patterns.

The following general likenesses and differences were noted in the variations of the armhole measurements on the blouse front and back of printed and perforated patterns. The armhole depth, armhole width, and armhole curve measurements had the greatest variation on the blouse front and back in the perforated patterns. The armhole curve depth had the greatest variation on the blouse front and back in the printed patterns. The total armhole curve variation was greater in the perforated patterns.

General likenesses and differences noted in the mean variations of the length measurements on the blouse front and back of printed and

perforated patterns included the following. The center front length and center back length had the greatest amount of variation in the printed patterns. The slope of shoulder variation was greater in the perforated patterns on the blouse front and in the printed patterns on the blouse back. The drop of shoulder, underarm, and full length variations were greater in the printed patterns on the blouse front and greater in the perforated patterns on the blouse back. The variation in the full side length measurement was greater in the perforated patterns on the blouse front and back.

The amount of variation in the waist dart on the blouse front was greatest in the perforated patterns. On the blouse back the greatest variation was in the printed patterns. The variations on the blouse front were less than the Basic pattern. The variations on the blouse back were greater than the Basic pattern.

From these findings it seemed that the greater variation in the armhole width in the perforated patterns on the blouse front and back might be related to the lesser variation in the sleeve bicep width. The greater variation in the armhole depth on the blouse front and back and the greater variation in the sleeve cap height might be related. The greater variations in the total armhole curve and the cap curve might also be related.

Out of the fifty-eight measurements on the patterns studied, the printed patterns had thirty-four measurements which had the greatest amount of variation. The perforated patterns had twenty-three measurements which had the greatest amount of variation. No variation was recorded for the neck dart measurements. Since the number of greater variations was larger in the brands producing printed patterns, it seems

that printing the pattern markings has not had too much influence on the amount of variation between printed and perforated patterns. It was noted in a previous section of the study that Brands A and H which produced printed patterns had the greatest number of greater variations in measurements of all the brands.

TABLE XXXVII

A COMPARISON  
OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
IN PRINTED PATTERNS AND PERFORATED PATTERNS IN SIZE 16

Blouse Front

Number	Name of Measurement	Variations*	
		Printed <sup>35</sup>	Perforated <sup>36</sup>
1.	Center front length	± .1484	- .0174
2.	Neck width	± .3281	± .1285
3.	Neck depth	± .4453	± .1944
4.	Across shoulder	± .9609	± .7535
5.	Slope of shoulder	± .1641	± .3889
6.	Drop of shoulder	± .2484	± .2118
7.	Shoulder seam	± .7656	± .7292
8.	Across chest	± .3984	± .1632
9.	Bust width	± .6016	± .2535
10.	Upper bust width	± .2109	- .0729
11.	Full side length	± 4.2031	± 4.2847
12.	Underarm length	- .8984	- .8264
13.	Waist width	- .2344	± .1111
14.	Armhole curve	± .3750	± .3958
15.	Height of bust	± .0781	- .0104
16.	Armhole curve depth	± .2813	± .2535
17.	Neck curve depth	- .0625	- .1076
18.	Bust point width	- .0313	- .0625
19.	Full length	± .5781	± .2569
20.	Neck curve	± .5781	± .3681
21.	Dart point to bust point	± .8125	± .8047
22.	Armhole depth	± .9297	± 1.0833
23.	Armhole width	- .6250	- .7257
24.	Shoulder to waist	± .7500	± .4340
25.	Waist dart	- .7°	- 4.5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the Basic pattern.

±Indicates variation was greater than the Basic pattern.

\*\*No measurement was made on that pattern.

35. Printed patterns include Brands A and H.

36. Perforated patterns include Brands B, C, D, E, F, and G.

TABLE XXXVII (Continued)

A COMPARISON  
OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
IN PRINTED PATTERNS AND PERFORATED PATTERNS IN SIZE 16

Blouse Back

Number	Name of Measurement	Variations*	
		Printed <sup>35</sup>	Perforated <sup>36</sup>
26.	Center back length	± .2891	± .2257
27.	Neck width	- .2344	- .2813
28.	Neck depth	- .2344	- .1007
29.	Across shoulder	± .5391	± .5243
30.	Slope of shoulder	± 1.0625	± .5382
31.	Drop of shoulder	- .3047	- .4201
32.	Shoulder seam	± .7031	± .6042
33.	Shoulder draft width	± .5000	± .3264
34.	Across chest	± .1564	± .1424
35.	Bust width	- .1484	- .3542
36.	Upper bust width	- .4297	- .6493
37.	Full side length	± .0703	± .3229
38.	Underarm length	- .6094	- .7326
39.	Waist width	- .5625	- .3785
40.	Armhole curve	± .3359	± .5104
41.	Full length	± .0469	± .0660
42.	Neck curve	- .3672	- .3438
43.	Neck curve depth	- .1250	- .0451
44.	Armhole curve depth	- .0391	± .0174
45.	Armhole depth	± .6719	± 1.0347
46.	Armhole width	- .8125	- .9722
47.	Shoulder dart	.0°	± .6°
48.	Neck dart	--**	--**
49.	Waist dart	± 3.6°	± 2.2°

TABLE XXXVII (Continued)

A COMPARISON  
OF THE MEAN VARIATIONS FROM THE BASIC PATTERN  
IN PRINTED PATTERNS AND PERFORATED PATTERNS IN SIZE 16

Sleeve

Number	Name of Measurement	Variations*	
		Printed <sup>35</sup>	Perforated <sup>36</sup>
50.	Bicep	- .3750	- .1493
51.	Overarm length	- .6406	- .1797
52.	Sleeve cap height	± .4922	± .5729
53.	Overarm to elbow	± .6719	± .8359
54.	Underarm length	- 1.1016	± .6406
55.	Underarm length from bicep to elbow	± .1016	± .3203
56.	Elbow girth	- 1.2857	- 1.0938
57.	Wrist girth	± .8750	± .8516
58.	Cap curve	± .1250	± .2153

## CHAPTER IV

### SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

#### Summary

General likenesses, differences, and correlations in the width, length, and sleeve measurements of similar styles in size 16 of the eight different brands were not apparent. The mean variations in measurements of similar styles in the eight brands showed likenesses, differences, and correlations among some of the brands, either in width measurements, length measurements, sleeve measurements, or in a combination of these. The total measurements revealed a bust width which was greater than the Basic pattern. The total upper bust width was less in all brands than the Basic pattern. The total waist width was less in all brands except Brand F. The across the shoulder, chest, and bust widths were greater than the Basic pattern in all brands with one exception. This exception was the waist width of Brand F. The shoulder to waist length was greater in all brands than the Basic pattern. It appeared that there might be some correlation between the lesser underarm seam, greater armhole depth, and greater sleeve cap height in all brands. Related to the lesser upper bust in all brands was the lesser sleeve bicep width. This lesser measurement might have been determined to some extent by the fashion silhouette of 1949-50.

It was found that all brands had a greater bust measurement when the pattern was measured than was indicated on the pattern envelope, guide sheet, or catalogue. It is accepted that the pattern would include



a given amount for "ease" which would be determined by the company. There was no apparent uniformity in the amount of "ease," in this case, as the measurements varied from three to 6 3/8 inches in the different brands. Similar styles in the same brand had measurements which were different. This again could be attributed to the style of the design. Of the eighteen patterns in Brands A, B, C, and H, eight had waist measurements which were less than those stated on the pattern, and ten had waist measurements which were greater than those stated on the pattern. Of the eight patterns in Brands D, E, F, and G, all had measurements which were greater than those stated on the pattern.

There was no apparent relationship in the price range and the variations in the measurements. This corroborated the findings in earlier studies. The low price group had the smallest number of least variations from the Basic pattern in the three price groups. The low price group had the same number of variations as the high price group that were the greatest variations in the three price groups. The high price group had the greatest number of least variations. Since the number of least variations increased as the price increased, it appeared that there might be a correlation between the price of the pattern and the amount of variation from the Basic pattern. The higher superlatives of the number of greatest and least variations were found in the high price group. Thus, the increase in the number of least measurements could be due to the increase in the price with more emphasis placed upon sizing by the manufacturer; or, increase in the number of greater measurements could be due to the increase in emphasis which is placed upon fashion in the design.

Findings which resulted from the measurements of sizes 14, 16, 18,

and 20 in four brands of the medium price group showed that there was no regularity in the grading of different sizes of the same style by the same company. Brand A had 3 measurements out of the 58 which had the same amount of variation in grading different sizes. According to all manuals used in pattern drafting referred to in this study, the difference in measurements of these different sizes in the Misses group increased the same amount from 14 to 16, 16 to 18, and 18 to 20.

The amount of variation in measurements used for grading from size 14 to size 16 pattern by the four different companies in the medium price group was not the same amount. Brand B was different because all the width measurements on the blouse back were less on size 16 than on size 14. The amount of variation between sizes 14 and 16 in the total bust and waist widths in Brands B and C was less than the amount suggested by the Bureau of Standards. However, both companies stated that they used the measurements of the Bureau of Standards in grading these sizes. In grading from size 16 to size 18, the increase in Brand B was at least 1 inch greater in all the width measurements. In grading from size 18 to size 20, Brand H had the greatest amount of variation.

The decrease in the amount of variation in the total bust and waist width measurements after standards for Misses' dress patterns were established by the Bureau of Standards was unexpected. As the waist and bust width measurements decreased, the neck curve measurements increased. It should not be overlooked that fashions of 1928 showed a dress design that had little or no fitting at the waist as compared with the snugly fitted waistline which was the fashion in 1949-50. This factor may be a partial explanation for the greater variation which existed before the Bureau of Standards' measurements were established.

The acceptance and use of Commercial Standards by the different companies does not seem to have had much influence on the amount of variation in their patterns. Out of the fifty-eight measurements on the patterns studied, the five brands accepting and using Commercial Standards had thirty measurements which had the greatest amount of variation.

The amount of variation between printed and perforated patterns was noticeable. Out of the fifty-eight measurements on the patterns studied, the printed patterns had thirty-four measurements which had the greatest amount of variation. The perforated patterns had twenty-three measurements which had the greatest amount of variation. No variation was recorded for the neck dart measurements. Since the number of greater variations was larger in the brands producing printed patterns, it seems that printing the pattern markings has not had too much influence on the amount of variation between printed and perforated patterns.

#### Conclusions

With the limited number of patterns used in this study, it was impossible to say that different findings would not result from another study which included more designs in the different brands. It can be stated that pattern measurements recorded in this study indicate a great need for further standardization. This standardization should be applied to uniformity of sizing as well as grading. The deviations in measurements of the printed patterns studied are great enough to cause much confusion in use. Brand C patterns were more consistent in their variations than the other perforated patterns. The Basic pattern proved to be a satisfactory means for comparing variations in the different patterns.

### Recommendations

As a result of this study the following recommendations are made in an effort to create a desire among persons in the clothing profession, whether teachers or pattern producers, to promote further standardization of dress patterns:

1. A more active acceptance of a uniformity in specific standard measurements on patterns for all companies would decrease the time involved to fit different brands of patterns. This could be of great advantage in clothing construction courses of high school or college level and home dressmakers where pattern adjustment consumes too much of the limited time available for clothing construction.

2. Clothing teachers realize that measurements vary depending upon the style of the design. With this in mind, it is recommended that the guide sheet include the basic measurements used in drafting the pattern and the amount of "ease" incorporated in the design. This would simplify the fitting problem involved in teaching the use of patterns in the classroom at present and increase the value of the pattern.

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APPENDIX



THE WOMAN'S COLLEGE  
OF  
THE UNIVERSITY OF NORTH CAROLINA  
GREENSBORO, N. C.

323

HOME ECONOMICS

December 10, 1949

Company  
Address

Dear Sirs:

As a graduate student in Home Economics at The Woman's College, I am making a study of typical variations which occur in grading sizes of commercial dress patterns for misses. No work has been recorded on this subject since the Bureau of Standards first set up its standards for sizes in 1929, and Miss Ruth O'Erien of the Bureau of Human Nutrition and Home Economics completed her extensive study of women's measurements for garment and pattern construction in 1941. Teachers of clothing consumption and other consumers are interested in knowing how these factors relate to the sizes of present-day patterns.

We hope that you as a commercial pattern producer will be interested in reviewing my findings.

(Brand) patterns number \_\_\_\_, \_\_\_\_, \_\_\_\_, and \_\_\_\_ have been selected on basic construction lines. If there are pattern designs which are nearer the basic measurements you use for drafting, I would appreciate your suggestions.

To complete the setting up of my study, I need certain information from the pattern companies concerned. Would you be kind enough to furnish information concerning the following questions:

1. What size is your master pattern for grading Misses' sizes?
2. Do you use the Commercial Standard CS13-44 for Dress patterns, 4th Edition in establishing your sizes?
3. Do you use the findings published as Miscellaneous Publication No. 454, U.S.D.A, Women's Measurements for Garment and Pattern Construction?
4. Since this study is for educational purposes, would you care to cooperate by contributing the patterns selected in the sizes needed for the study? Misses' style number \_\_\_\_ is needed in sizes 14, 16, 18, and 20. Style numbers \_\_\_\_, \_\_\_\_, \_\_\_\_, and \_\_\_\_ are needed in size 16.

In making this study I would greatly appreciate any suggestions which you may care to offer. I am anticipating your consideration and interest, and shall hope to hear from you in the near future.

Yours very truly,

(Miss) Laura L. Lucas

## APPENDIX TABLE I

MEASUREMENTS OF SIZE 16 PATTERN  
AND VARIATIONS FROM THE BASIC PATTERN IN THE  
BRAND ABlouse Front

Number	Name of Measurement	Basic Pattern	A1		A2	
			Measurement*	Variation*	Measurement*	Variation*
1.	Center front length	14.7500	14.6875	- .0625	14.7500	.000
2.	Neck width	2.3750	2.5000	+ .1250	3.0625	+ .687
3.	Neck depth	2.6875	3.1250	+ .4375	2.4375	- .250
4.	Across shoulder	7.1250	8.1250	+ 1.0000	8.0625	+ .937
5.	Slope of shoulder	17.8750	18.5000	+ .6250	18.4375	+ .562
6.	Drop of shoulder	1.0000	1.0000	.0000	.8750	- .125
7.	Shoulder seam	4.6250	5.4375	+ .8125	5.4375	+ .812
8.	Across chest	7.0000	7.5625	+ .5625	7.6250	+ .625
9.	Bust width	10.0625	10.7500	+ .6875	10.4375	+ .375
10.	Upper bust width	10.1875	10.5625	+ .3750	10.2500	+ .062
11.	Full side length	11.3125	15.9375	+ 4.6250	15.7500	+ 4.437
12.	Underarm length	8.8750	8.2500	- .6250	8.2500	- .625
13.	Waist width	7.5625	7.5000	- .0625	7.3125	- .250
14.	Armhole curve	8.6250	9.1250	+ .5000	8.8125	+ .187
15.	Height of bust	7.3750	7.3125	+ .0625	7.3750	.000
16.	Armhole curve depth	.8750	1.0625	+ .1875	1.0000	+ .125
17.	Neck curve depth	.7500	.5625	- .1875	.8750	+ .125
18.	Bust point width	4.0625	4.3125	+ .2500	4.7500	+ .687
19.	Full length	17.4375	17.8125	+ .3750	17.7500	+ .312
20.	Neck curve	3.8750	4.6250	+ .7500	4.1875	+ .312
21.	Dart point to bust point	.5625	.7500	+ .1875	---	--
22.	Armhole depth	5.8125	7.1250	+ 1.3125	6.8750	+ 1.062
23.	Armhole width	3.3125	2.6875	- .6250	2.6250	- .687
24.	Shoulder to waist	17.5625	18.1250	+ .5625	18.1250	+ .562
25.	Waist dart	30.5°	29.0°	- 1.5°	32.0°	+ 1.5°

\*Measurements and variations are given in inches except for measurements are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE I

MENTS OF SIZE 16 PATTERNS  
 THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND A

Blouse Front

		Patterns					
		A2		A3		A4	
* -	Measure-	Varia-	Measure-	Varia-	Measure-	Varia-	
	ment*	tion*	ment*	tion*	ment*	tion*	
5	14.7500	.0000	14.5625	- .1875	14.7500	.0000	
0	3.0625	+ .6875	2.1250	- .2500	2.3125	- .0625	
5	2.4375	- .2500	3.6250	+ .9375	3.4375	+ .7500	
0	8.0625	+ .9375	7.8750	+ .7500	8.0625	+ .9375	
0	18.4375	+ .5625	18.6875	+ .8125	18.5000	+ .6250	
0	.8750	- .1250	1.1250	+ .1250	1.4375	+ .4375	
5	5.4375	+ .8125	5.4375	+ .8125	5.6875	+ 1.0625	
5	7.6250	+ .6250	7.5625	+ .5625	7.5000	+ .5000	
5	10.4375	+ .3750	10.8750	+ .8125	10.6875	+ .6250	
0	10.2500	+ .0625	10.4375	+ .2500	10.5000	+ .3125	
0	15.7500	+ 4.4375	15.6875	+ 4.3750	15.8750	+ 4.5625	
0	8.2500	- .6250	8.2500	- .6250	8.1250	- .7500	
5	7.3125	- .2500	7.5625	.0000	7.5000	- .0625	
0	8.8125	+ .1875	9.0625	+ .4375	9.3125	+ .6875	
5	7.3750	.0000	7.2500	- .1250	7.3750	.0000	
5	1.0000	+ .1250	1.0625	+ .1875	1.0000	+ .1250	
5	.8750	+ .1250	.6875	- .0625	.6875	- .0625	
0	4.7500	+ .6875	4.0000	- .0625	3.2500	- .8125	
0	17.7500	+ .3125	18.2500	+ .8125	18.1875	+ .7500	
0	4.1875	+ .3125	4.5000	+ .6250	4.1875	+ .3125	
5	---	--	1.0625	+ .5000	--	--	
5	6.8750	+ 1.0625	6.6875	+ .8750	7.1875	+ 1.3750	
0	2.6250	- .6875	3.0000	- .3125	2.7500	- .5625	
5	18.1250	+ .5625	18.6875	+ 1.1250	18.3750	+ .8125	
	32.0°	+ 1.5°	35.0°	+ 5.0°	28.5°	- 2.0°	

except for measurements and variations 25, 47, 48, and 49, which

tern.

pattern.

## APPENDIX TABLE I (Continued)

MEASUREMENTS OF SIZE 16 PATTERN  
AND VARIATIONS FROM THE BASIC PATTERN IN THE  
BRAND ABlouse Back

Number	Name of Measurement	Basic Pattern	A1		A2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
26.	Center back length	16.3125	16.5000	+ .1875	16.8750	+ .5625
27.	Neck width	3.0625	2.5000	- .5625	3.1250	+ .0625
28.	Neck depth	1.0000	.8125	- .1875	1.0000	.0000
29.	Across shoulder	7.4375	7.8750	+ .4375	7.8125	+ .3750
30.	Slope of shoulder	16.8750	18.1875	+ 1.3125	19.3125	+ 2.4375
31.	Drop of shoulder	2.1875	1.5000	- .6875	2.1250	- .0625
32.	Shoulder seam	4.8125	5.5000	+ .6875	5.3750	+ .5625
33.	Shoulder draft width	7.7500	8.2500	+ 1.5000	8.0000	+ .2500
34.	Across chest	7.3750	7.6250	+ .2500	7.5000	+ .1250
35.	Bust width	9.4375	9.1250	- .3125	9.3125	- .1250
36.	Upper bust width	10.0625	9.6875	- .3750	9.8750	- .1875
37.	Full side length	15.7500	15.9375	+ .1875	16.1875	+ .4375
38.	Underarm length	8.8125	8.2500	- .5625	8.3125	- .5000
39.	Waist width	7.0625	6.4375	- .6250	6.7500	- .3125
40.	Armhole curve	8.6250	9.1875	+ .5625	9.1875	+ .5625
41.	Full length	17.3125	17.3750	+ .0625	17.8750	+ .5625
42.	Neck curve	3.3750	2.7500	- .3750	3.1875	- .1875
43.	Neck curve depth	.5000	.3750	- .1250	.3750	- .1250
44.	Armhole curve depth	.7500	.5000	- .2500	.8750	+ .1250
45.	Armhole depth	7.0000	7.8750	+ .8750	7.9375	+ .9375
46.	Armhole width	2.4375	1.5000	- .9375	1.9375	- .5000
47.	Shoulder dart	7.0°	6.5°	- .5°	--**	--
48.	Neck dart	--	--	--	4.0°	--
49.	Waist dart	7.5°	9.0°	+ 1.5°	13.0°	+ 5.5°

TABLE I (Continued)

SIZE 16 PATTERNS  
 BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND A

Blouse Back

Patterns					
A2		A3		A4	
Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
16.8750	+ .5625	16.6875	+ .3750	16.8125	+ .5000
3.1250	+ .0625	2.5000	- .5625	2.3750	- .6875
1.0000	.0000	.6875	- .3125	1.0000	.0000
7.8125	+ .3750	7.8125	+ .3750	7.7500	+ .3125
19.3125	+ 2.4375	17.0000	+ .1250	17.7500	+ .8750
2.1250	- .0625	1.9375	- .2500	1.7500	- .4375
5.3750	+ .5625	5.5625	+ .7500	5.6250	+ .8125
8.0000	+ .2500	8.1875	+ .4375	7.7500	.0000
7.5000	+ .1250	7.7500	+ .3750	7.3125	- .0625
9.3125	- .1250	9.2500	- .1875	9.3125	- .1250
9.8750	- .1875	9.8125	- .2500	9.5000	- .5625
16.1875	+ .4375	15.8750	+ .1250	16.5000	+ .7500
8.3125	- .5000	8.3125	- .5000	8.1250	- .6875
6.7500	- .3125	6.5625	- .5000	5.5000	- 1.5625
9.1875	+ .5625	9.0000	+ .3750	9.3750	+ .7500
17.8750	+ .5625	17.3750	+ .0625	17.7500	+ .4375
3.1875	- .1875	2.6875	- .6875	2.7500	- .6250
.3750	- .1250	.3750	- .1250	.3125	- .1875
.8750	+ .1250	.5000	- .2500	.9375	+ .1875
7.9375	+ .9375	7.7500	+ .7500	8.2500	+ 1.2500
1.9375	- .5000	1.5625	- .8750	1.8125	- .6250
--**	--	7.5°	+ .5°	--	--
4.0°	--	--	--	--	--
13.0°	+ 5.5°	9.0°	+ 1.5°	16.0°	+ 8.5°

## APPENDIX TABLE I (Continued)

MEASUREMENTS OF SIZE 16 PATTERN  
AND VARIATIONS FROM THE BASIC PATTERN IN THE  
BRAND ASleeve

Number	Name of Measurement	Basic Pattern	A1		A2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- atio
50.	Bicep	14.2500	14.0000	- .2500	14.1250	- .1250
51.	Overarm length	24.8125	25.2500	+ .4375	21.2500	- 3.5625
52.	Sleeve cap height	6.0000	6.3750	+ .3750	6.3125	+ .3125
53.	Overarm to elbow	13.8750	14.8125	+ .9375	13.1875	+ .6875
54.	Underarm length	18.3750	18.0000	- .3750	15.2500	- 3.1250
55.	Underarm length from bicep to elbow	7.8750	8.5000	+ .6250	6.9375	- .9375
56.	Elbow girth	13.2500	12.6250	- .6250	--**	--
57.	Wrist girth	7.0625	--	--	--	--
58.	Cap sleeve	19.9375	20.1875	+ .2500	20.0625	+ .1250

## APPENDIX TABLE I (Continued)

 VARIATIONS OF SIZE 16 PATTERNS  
 FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND A
Sleeve

Patterns							
A2			A3			A4	
Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*	Variation*
2500	14.1250	- .1250	13.8750	- .3750	14.1250	- .1250	
4375	21.2500	- 3.5625	25.1250	+ .3125	25.0000	+ .1875	
3750	6.3125	+ .3125	6.6875	+ .6875	6.3750	+ .3750	
9375	13.1875	+ .6875	14.8750	+ 1.0000	14.6875	+ .8125	
3750	15.2500	- 3.1250	17.9375	- .4375	18.0000	- .3750	
6250	6.9375	- .9375	8.2500	+ .3750	8.3750	+ .5000	
6250	--**	--	12.3125	- .9375	12.3750	- .8750	
--	--	--	7.3750	+ .3125	7.3125	+ .2500	
2500	20.0625	+ .1250	20.3125	+ .3750	20.2500	+ .3125	

MEASUREMENTS  
AND VARIATIONS FROM

Number	Name of Measurement	Basic Pattern	E1		E2	
			Measurement*	Variation*	Measurement*	Variation*
1.	Center front length	14.7500	15.3125	+ .5625	14.8750	+ .1125
2.	Neck width	2.3750	2.6250	+ .2500	2.6250	+ .2500
3.	Neck depth	2.6875	2.8125	+ .1250	2.8125	+ .1250
4.	Across shoulder	7.1250	7.8750	+ .7500	7.8125	+ .6875
5.	Slope of shoulder	17.8750	18.7500	+ .8750	18.2500	+ .3750
6.	Drop of shoulder	1.0000	1.0625	+ .0625	1.1250	+ .1250
7.	Shoulder seam	4.6250	5.1875	+ .5625	5.2500	+ .6250
8.	Across chest	7.0000	7.1250	+ .1250	7.2500	+ .2500
9.	Bust width	10.0625	10.4375	+ .3750	10.3750	+ .3125
10.	Upper bust width	10.1875	10.1875	.0000	10.1875	.0000
11.	Full side length	11.3125	15.9375	+ 4.6250	15.5000	+ 4.1875
12.	Underarm length	8.8750	8.1250	- .7500	7.8750	- 1.0000
13.	Waist width	7.5625	8.6250	+ 1.0625	7.3750	- .1875
14.	Armhole curve	8.6250	9.2500	+ .6250	9.0000	+ .3750
15.	Height of bust	7.3750	7.6250	+ .2500	7.4375	+ .0625
16.	Armhole curve depth	.8750	1.2500	+ .3750	1.1250	+ .2500
17.	Neck curve depth	.7500	.7500	.0000	.5000	- .2500
18.	Bust point width	4.0625	3.8125	- .2500	3.5000	- .5625
19.	Full length	17.4375	18.1875	+ .7500	17.6250	+ .1875
20.	Neck curve	3.8750	4.3125	+ .4375	4.3125	+ .4375
21.	Dart point to bust point	.5625	---	--	1.2500	+ .6875
22.	Armhole depth	5.8125	7.0625	+ 1.2500	7.1250	+ 1.3125
23.	Armhole width	3.3125	2.5625	- .7500	2.5625	- .7500
24.	Shoulder to waist	17.5625	18.3125	+ .7500	17.7500	+ .1875
25.	Waist dart	30.5°	21.5°	- 9.0°	26.5°	- 4.0°

\*Measurements and variations are given in inches except for measurements in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.



APPENDIX TABLE II

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND B

Blouse Front

Patterns									
B2			B3		B4		B5		
Variation*	Measurement*	Variation*	Measurement*	Variation*	Measurement*	Variation*	Measurement*	Variation*	Variation*
.6625	14.8750	+ .1250	14.7500	.0000	14.5000	- .2500	14.3750	- .3750	
.2500	2.6250	+ .2500	2.7500	+ .3750	2.6250	+ .2500	2.5625	+ .1875	
.1250	2.8125	+ .1250	2.7500	+ .0625	2.8750	+ .1875	2.1875	- .5000	
.7500	7.8125	+ .6875	7.8750	+ .7500	7.9375	+ .8125	7.9375	+ .8125	
.3750	18.2500	+ .3750	18.2500	+ .3750	18.0625	+ .1875	18.1875	+ .3125	
.0625	1.1250	+ .1250	1.1250	+ .1250	1.0625	+ .0625	1.1250	+ .1250	
.6625	5.2500	+ .6250	5.0625	+ .4375	5.6250	+ 1.0000	5.2500	+ .6250	
.1250	7.2500	+ .2500	7.4375	+ .4375	7.2500	+ .2500	7.2500	+ .2500	
.3750	10.3750	+ .3125	10.3750	+ .3125	10.5000	+ .4375	10.3750	+ .3125	
.0000	10.1875	.0000	10.2500	+ .0625	10.3125	+ .1250	10.3750	+ .1875	
.6250	15.5000	+ 4.1875	15.8125	+4.5000	15.7500	+ 4.4375	15.8125	+ 4.5000	
.7500	7.8750	- 1.0000	8.0625	- .8125	8.0000	- .8750	7.9375	- .9375	
.0625	7.3750	- .1875	7.6250	+ .0625	7.3125	- .2500	7.1875	- .3750	
.6250	9.0000	+ .3750	8.8750	+ .2500	9.1875	+ .5625	9.4375	+ 1.8125	
.2500	7.4375	+ .0625	7.3125	- .0625	7.2500	- .1250	7.2500	- .1250	
.3750	1.1250	+ .2500	1.1250	+ .2500	1.1250	+ .2500	1.1250	+ .2500	
.0000	.5000	- .2500	.6250	- .1250	.6250	- .1250	.6250	- .1250	
.2500	3.5000	- .5625	4.1250	+ .0625	3.8750	- .1875	4.3750	+ .3125	
.7500	17.6250	+ .1875	17.5000	+ .0625	17.3750	- .0625	17.6250	- .1875	
.4375	4.3125	+ .4375	4.3125	+ .4375	4.3125	+ .4375	4.5625	+ .6875	
--	1.2500	+ .6875	--	--	--	--	--	--	
.2500	7.1250	+ 1.3125	7.1250	+1.3125	7.1250	+ 1.3125	7.3125	+ 1.5000	
.7500	2.5625	- .7500	2.5625	- .7500	2.6250	- .6875	2.6250	- .6875	
.7500	17.7500	+ .1875	17.7500	+ .1875	17.8125	+ .2500	17.9375	+ .3750	
0°	26.5°	- 4.0°	22.5°	-8.0°	28.0°	- 2.5°	26.5°	- 4.0°	

es except for measurements and variations 25, 47, 48, and 49, which are given in degrees.

attern.

e pattern.

REMENTS

B4		B5		B6	
Measurement*	Variation*	Measurement*	Variation*	Measurement*	Variation*
000	- .2500	14.3750	- .3750	14.5000	- .2500
250	+ .2500	2.5625	+ .1875	2.7500	+ .3750
750	+ .1875	2.1875	- .5000	2.8125	+ .1250
375	+ .8125	7.9375	+ .8125	7.8125	+ .6875
625	+ .1875	18.1875	+ .3125	18.0000	+ .1250
625	+ .0625	1.1250	+ .1250	1.0000	.0000
250	+ 1.0000	5.2500	+ .6250	5.0000	+ .3750
500	+ .2500	7.2500	+ .2500	7.3125	+ .3125
000	+ .4375	10.3750	+ .3125	10.4375	+ .3750
125	+ .1250	10.3750	+ .1875	10.3125	+ .1250
500	+ 4.4375	15.8125	+ 4.5000	15.6250	+ 4.3125
000	- .8750	7.9375	- .9375	8.0000	- .8750
125	- .2500	7.1875	- .3750	8.5000	+ .9375
375	+ .5625	9.4375	+ 1.8125	9.1250	+ .5000
500	- .1250	7.2500	- .1250	7.2500	- .1250
250	+ .2500	1.1250	+ .2500	1.0625	+ .1875
250	- .1250	.6250	- .1250	.6250	- .1250
750	- .1875	4.3750	+ .3125	3.8750	- .1875
750	- .0625	17.6250	- .1875	17.4375	.0000
25	+ .4375	4.5625	+ .6875	4.3125	+ .4375
	--	--	--	2.0000	+ 1.4375
50	+ 1.3125	7.3125	+ 1.5000	7.1250	+ 1.3125
50	- .6875	2.6250	- .6875	2.6875	- .6250
25	+ .2500	17.9375	+ .3750	17.6250	+ .0625
	- 2.5°	26.5°	- 4.0°	23.5°	- 7.0°

49, which are given in degrees.

MEASUREMENTS  
AND VARIATIONS FROM T

Number	Name of Measurement	Basic Pattern	B1		B2	
			Measurement*	Variation*	Measurement*	Variation*
26.	Center back length	16.3125	16.7500	+ .4375	16.8750	+ .5625
27.	Neck width	3.0625	2.6250	- .4375	2.5000	- .5625
28.	Neck depth	1.0000	.6875	- .3125	.6250	- .3750
29.	Across shoulder	7.4375	7.6875	+ .2500	7.5625	+ .1250
30.	Slope of shoulder	16.8750	17.1250	+ .2500	17.1875	+ .3125
31.	Drop of shoulder	2.1875	1.7500	- .4375	1.7500	- .4375
32.	Shoulder seam	4.8125	5.3125	+ .5000	5.2500	+ .4375
33.	Shoulder draft width	7.7500	8.0625	+ .3125	8.1250	+ .3750
34.	Across chest	7.3750	7.5000	+ .1250	7.5000	+ .1250
35.	Bust width	9.4375	8.8750	- .5625	8.9375	- .5000
36.	Upper bust width	10.0625	9.1875	- .8750	9.3750	- .6875
37.	Full side length	15.7500	15.9375	+ .1875	16.0000	+ .2500
38.	Underarm length	8.8125	8.1250	- .6875	8.0000	- .8125
39.	Waist width	7.0625	6.4375	- .6250	6.5625	- .5000
40.	Armhole curve	8.6250	8.8750	+ .2500	9.1875	+ .5625
41.	Full length	17.3125	17.1875	- .1250	17.5000	+ .1875
42.	Neck curve	3.3750	2.8125	- .5625	2.6250	- .7500
43.	Neck curve depth	.5000	.3125	- .1875	.3750	- .1250
44.	Armhole curve depth	.7500	.7500	.0000	.7500	.0000
45.	Armhole depth	7.0000	8.0000	+ 1.0000	8.1250	+ 1.1250
46.	Armhole width	2.4375	1.2500	- 1.1875	1.2500	- 1.1875
47.	Shoulder dart	7.0°	7.5°	+ .5°	11.0°	+ 4.0°
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	9.0°	+ 1.5°	7.5°	.0°

APPENDIX TABLE II (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND B

Blouse Back

Patterns

B2		B3		B4		B5	
Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
16.8750	+ .5625	16.4375	+ .1250	16.7500	+ .4375	16.5000	+ .1875
2.5000	- .5625	2.6875	- .3750	2.6250	- .4375	2.6250	- .4375
.6250	- .3750	.8125	- .1875	.6250	- .3750	.8125	- .1875
7.5625	+ .1250	7.5625	+ .1250	7.7500	+ .3125	7.7500	+ .3125
17.1875	+ .3125	16.7500	- .1250	17.1875	+ .3125	16.8750	.0000
1.7500	- .4375	1.7500	- .4375	1.8125	- .3750	1.7500	- .4375
5.2500	+ .4375	5.1250	+ .3125	5.1250	+ .3125	5.3125	+ .5000
8.1250	+ .3750	7.9375	+ .1875	7.6250	- .1250	8.0625	+ .3125
7.5000	+ .1250	7.4375	+ .0625	7.4375	+ .0625	7.5000	+ .1250
8.9375	- .5000	8.7500	- .6875	8.9375	- .5000	8.8750	- .5625
9.3750	- .6875	9.1250	- .9375	9.3125	- .7500	9.3125	- .7500
16.0000	+ .2500	16.1250	+ .3750	16.3125	+ .5625	16.0625	+ .3125
8.0000	- .8125	8.0625	- .7500	8.1875	- .6250	8.0000	- .8125
6.5625	- .5000	6.4375	- .6250	6.7500	- .3125	6.6875	- .3750
9.1875	+ .5625	8.9375	+ .3125	9.3125	+ .6875	9.1875	+ .5625
17.5000	+ .1875	17.2500	- .0625	17.5000	+ .1875	17.3125	.0000
2.6250	- .7500	2.9375	- .4375	2.8125	- .5625	2.8750	- .5000
.3750	- .1250	.5000	.0000	.3750	- .1250	.5000	.0000
.7500	.0000	.8125	+ .0625	.7500	.0000	.6250	- .1250
8.1250	+ 1.1250	8.1250	+ 1.1250	8.1875	+ 1.1875	8.1875	+ 1.1875
1.2500	- 1.1875	1.2500	- 1.1875	1.3750	- 1.0625	1.1875	- 1.2500
11.0°	+ 4.0°	6.5	- .5°	7.0°	.0°	6.5°	- .5°
--	--	--	--	--	--	--	--
7.5°	.0°	7.5°	.0°	8.0°	+ .5°	8.0°	+ .5°

## ELEMENTS

B4		B5		B6	
Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
16.5000	+	.4375	16.5000	+	.1875
16.2500	-	.4375	2.6250	-	.4375
16.2500	-	.3750	.8125	-	.1875
16.5000	+	.3125	7.7500	+	.3125
16.8750	+	.3125	16.8750		.0000
16.1250	-	.3750	1.7500	-	.4375
16.2500	+	.3125	5.3125	+	.5000
16.2500	-	.1250	8.0625	+	.3125
16.3750	+	.0625	7.5000	+	.1250
16.3750	-	.5000	8.8750	-	.5625
16.1250	-	.7500	9.3125	-	.7500
16.1250	+	.5625	16.0625	+	.3125
16.8750	-	.6250	8.0000	-	.8125
16.5000	-	.3125	6.6875	-	.3750
16.1250	+	.6875	9.1875	+	.5625
16.0000	+	.1875	17.3125		.0000
16.3125	-	.5625	2.8750	-	.5000
16.3750	-	.1250	.5000		.0000
16.7500		.0000	.6250	-	.1250
16.8750	+	1.1875	8.1875	+	1.1875
16.3750	-	1.0625	1.1875	-	1.2500
16.0°		.0°	6.5°	-	.5°
--		--	--		--
16.0°	+	.5°	8.0°	+	.5°
16.5000			16.5000	+	.1875
16.7500			2.7500	-	.3125
16.8750			1.8750	+	.8750
16.5000			7.5000	+	.0625
16.7500			16.7500	-	.1250
16.7500			1.7500	-	.4375
16.0000			5.0000	+	.1875
16.9375			7.9375	+	.1875
16.3750			7.3750		.0000
16.9375			8.9375	-	.5000
16.1875			9.1875	-	.8750
16.1875			16.1875	+	.4375
16.0000			8.0000	-	.8125
16.3750			6.3750	-	.6875
16.3125			9.3125	+	.6875
16.3750			17.3750	+	.0625
16.30000			3.0000	-	.3750
16.4375			.4375	-	.0625
16.6875			.6875	-	.0625
16.83125			8.3125	+	1.3125
16.13750			1.3750	-	1.0625
16.6.5°			6.5°	-	.5°
16.--			--		--
16.8.5°			8.5°	+	1.0°

MEASUREMENTS  
AND VARIATIONS FROM

Number	Name of Measurement	Basic Pattern	B1		B2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
50.	Bicep	14.2500	14.0000	- .2500	13.8750	- .3750
51.	Overarm length	24.8125	--	--	24.3750	- .4375
52.	Sleeve cap height	6.0000	6.7500	+ .7500	6.4375	+ .4375
53.	Overarm to elbow	13.8750	--	--	14.5000	+ .6250
54.	Underarm length	18.3750	--	--	17.8750	- .5000
55.	Underarm length from bicep to elbow	7.8750	--	--	8.1250	+ .2500
56.	Elbow girth	13.2500	--	--	11.5000	- 1.7500
57.	Waist girth	7.0625	--	--	7.5625	+ .5000
58.	Cap curve	19.9375	20.3125	+ .3750	19.6250	- .3125

APPENDIX TABLE II (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS

VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND B

Sleeve

Patterns									
B2		B3		B4		B5		Mea	
Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Mea	me
13.8750	- .3750	13.7500	- .5000	13.8750	- .3750	13.8750	- .3750	14.	
24.3750	- .4375	--	--	25.2500	+ .4375	--	--	6.	
6.4375	+ .4375	6.3750	+ .3750	6.7500	+ .7500	6.3750	+ .3750		
14.5000	+ .6250	--	--	15.0000	+ 1.1250	--	--		
17.8750	- 1.5000	--	--	18.0000	- .3750	--	--		
8.1250	+ .2500	--	--	8.3125	+ .4375	--	--		
11.5000	- 1.7500	--	--	11.5000	- 1.7500	--	--		
7.5625	+ .5000	--	--	7.5000	+ .4375	--	--		
19.6250	- .3125	19.4375	- .5000	20.3125	+ .3750	19.4375	- .5000	20.	

## MEASUREMENTS

B4		B5		B6	
Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
13.8750	- .3750	13.8750	- .3750	14.0000	- .2500
25.2500	+ .4375	--	--	--	--
6.7500	+ .7500	6.3750	+ .3750	6.7500	+ .7500
15.0000	+ 1.1250	--	--	--	--
18.0000	- .3750	--	--	--	--
8.3125	+ .4375	--	--	--	--
11.5000	- 1.7500	--	--	--	--
7.5000	+ .4375	--	--	--	--
20.3125	+ .3750	19.4375	- .5000	20.1875	+ .2500



## APPENDIX TABLE III

MEASUREMENTS OF SIZE 16 Pattern  
AND VARIATIONS FROM THE BASIC PATTERN IN THE  
BRAND CBlouse Front

Number	Name of Measurement	Basic Pattern	C1		C2	
			Measure-ment*	Vari-ation*	Measure-ment*	Vari-ation*
1.	Center front length	14.7500	14.8750	+ .1250	14.8125	+ .0625
2.	Neck width	2.3750	2.4375	+ .0625	2.5625	+ .1875
3.	Neck depth	2.6875	2.3750	- .3125	2.8125	+ .1250
4.	Across shoulder	7.1250	7.6250	+ .5000	7.7500	+ .6250
5.	Slope of shoulder	17.8750	17.7500	- .1250	17.8125	- .0625
6.	Drop of shoulder	1.0000	1.2500	+ .2500	1.6250	+ .6250
7.	Shoulder seam	4.6250	5.2500	+ .6250	5.3750	+ .7500
8.	Across chest	7.0000	7.1250	+ .1250	7.1250	+ .1250
9.	Bust width	10.0625	10.0625	.0000	10.1250	+ .0625
10.	Upper bust width	10.1875	9.9375	- .2500	10.0625	- .1250
11.	Full side length	11.3125	15.1875	+ 3.8750	15.3125	+ 4.0000
12.	Underarm length	8.8750	8.0000	- .8750	8.0000	- .8750
13.	Waist width	7.5625	7.5625	.0000	7.6250	+ .0625
14.	Armhole curve	8.6250	8.6250	.0000	8.8125	+ .1875
15.	Height of bust	7.3750	7.4375	+ .0625	7.3750	.0000
16.	Armhole curve depth	.8750	1.0000	+ .1250	1.0000	+ .1250
17.	Neck curve depth	.7500	.6875	- .0625	.6875	- .0625
18.	Bust point width	4.0625	4.1250	+ .0625	3.8750	- .1875
19.	Full length	17.4375	17.3125	- .1250	17.6875	+ .2500
20.	Neck curve	3.8750	3.7500	- .1250	4.0625	+ .1875
21.	Dart point to bust point	.5625	1.5000	+ .9375	1.5000	+ .9375
22.	Armhole depth	5.8125	6.6875	+ .8750	6.8125	+ 1.0000
23.	Armhole width	3.3125	2.3125	- 1.0000	2.3125	- 1.0000
24.	Shoulder to waist	17.5625	17.4375	- .1250	17.8750	+ .3125
25.	Waist dart	30.5°	23.5°	- 7.0°	22.5°	- 8.0°

\*Measurements and variations are given in inches except for measurement given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## ENDIX TABLE III

TS OF SIZE 16 Patterns  
 BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND C

Blouse Front

Patterns					
C2		C3		C4	
Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
14.8125	+ .0625	14.8750	+ .1250	14.8750	+ .1250
2.5625	+ .1875	2.2500	- .1250	2.5000	+ .1250
2.8125	+ .1250	2.8125	+ .1250	2.3750	- .3125
7.7500	+ .6250	7.6875	+ .5625	7.6875	+ .5625
17.8125	- .0625	18.0625	+ .1875	18.4375	+ .5625
1.6250	+ .6250	1.3125	+ .3125	1.4375	+ .4375
5.3750	+ .7500	5.2500	+ .6250	5.2500	+ .6250
7.1250	+ .1250	6.8125	- .1875	6.8125	- .1875
10.1250	+ .0625	10.1250	+ .0625	10.1250	+ .0625
10.0625	- .1250	9.9375	- .2500	10.0000	- .1875
15.3125	+ 4.0000	15.6875	+ 4.3750	15.8125	+ 4.5000
8.0000	- .8750	8.1250	- .7500	8.1250	- .7500
7.6250	+ .0625	7.5625	.0000	7.5625	.0000
8.8125	+ .1875	9.0625	+ .4375	9.2500	+ .6250
7.3750	.0000	7.4375	+ .0625	7.4375	+ .0625
1.0000	+ .1250	1.1250	+ .2500	1.1250	+ .2500
.6875	- .0625	.5625	- .1875	.6875	- .0625
3.8750	- .1875	4.3125	+ .2500	3.9375	- .1250
17.6875	+ .2500	17.6875	+ .2500	17.8750	+ .4375
4.0625	+ .1875	4.1875	- .3125	4.1250	+ .2500
1.5000	+ .9375	--**	--	1.5625	+ 1.0000
6.8125	+ 1.0000	6.8125	+ 1.0000	6.9375	+ 1.1250
2.3125	- 1.0000	2.3750	- .9375	2.5000	- .8125
17.8750	+ .3125	18.2500	+ .6875	18.0625	+ .5000
22.5°	- 8.0°	21.5°	- 9.0°	27.0°	- 3.5°

except for measurements and variations 25, 47, 48, and 49, which are

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## APPENDIX TABLE III (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERNS IN  
BRAND CBlouse Back

Number	Name of Measurement	Basic Pattern	C1		C2	
			Measurement*	Variation*	Measurement*	Variation*
26.	Center back length	16.3125	16.1250	- .1875	16.3750	+ .0625
27.	Neck width	3.0625	2.8750	- .1875	2.6875	- .3750
28.	Neck depth	1.0000	.8125	- .1875	.7500	- .2500
29.	Across shoulder	7.4375	7.9375	+ .5000	7.8750	+ .4375
30.	Slope of shoulder	16.8750	16.3750	- .5000	16.6250	- .2500
31.	Drop of shoulder	2.1875	2.1250	- .0625	1.9375	- .2500
32.	Shoulder seam	4.8125	5.3750	+ .5625	5.5000	+ .6875
33.	Shoulder draft width	7.7500	7.8125	+ .0625	7.8125	+ .0625
34.	Across chest	7.3750	7.3125	- .0625	7.3125	- .0625
35.	Bust width	9.4375	8.7500	- .6875	8.8125	- .6250
36.	Upper bust width	10.0625	9.0000	- 1.0625	9.1875	- .8750
37.	Full side length	15.7500	15.4375	- .3125	15.6875	- .0625
38.	Underarm length	8.8125	8.0000	- .8125	8.0000	- .8125
39.	Waist width	7.0625	6.3125	- .7500	6.3750	- .6875
40.	Armhole curve	8.6250	8.6250	.0000	8.8125	+ .1875
41.	Full length	17.3125	16.9375	- .3750	17.1250	- .1875
42.	Neck curve	3.3750	3.1250	- .2500	2.8750	- .5000
43.	Neck curve depth	.5000	.4375	- .0625	.4375	- .0625
44.	Armhole curve depth	.7500	.6250	- .1250	.7500	- .0625
45.	Armhole depth	7.0000	7.6875	+ .6875	7.8125	+ .8125
46.	Armhole width	2.4375	1.3125	- 1.1250	1.5000	- .9375
47.	Shoulder dart	7.0000	--	--	--	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	6.0°	- 1.5°	8.0°	+ .5°

## APPENDIX TABLE III (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERNS IN  
BRAND CBlouse Back

Number	Name of Measurement	Basic Pattern	C1		C2	
			Measurement*	Variation*	Measurement*	Variation*
26.	Center back length	16.3125	16.1250	- .1875	16.3750	+ .0625
27.	Neck width	3.0625	2.8750	- .1875	2.6875	- .3750
28.	Neck depth	1.0000	.8125	- .1875	.7500	- .2500
29.	Across shoulder	7.4375	7.9375	+ .5000	7.8750	+ .4375
30.	Slope of shoulder	16.8750	16.3750	- .5000	16.6250	- .2500
31.	Drop of shoulder	2.1875	2.1250	- .0625	1.9375	- .2500
32.	Shoulder seam	4.8125	5.3750	+ .5625	5.5000	+ .1250
33.	Shoulder draft width	7.7500	7.8125	+ .0625	7.8125	+ .0625
34.	Across chest	7.3750	7.3125	- .0625	7.3125	- .0625
35.	Bust width	9.4375	8.7500	- .6875	8.8125	- .6250
36.	Upper bust width	10.0625	9.0000	- 1.0625	9.1875	- .8750
37.	Full side length	15.7500	15.4375	- .3125	15.6875	- .0625
38.	Underarm length	8.8125	8.0000	- .8125	8.0000	- .8125
39.	Waist width	7.0625	6.3125	- .7500	6.3750	- .6875
40.	Armhole curve	8.6250	8.6250	.0000	8.8125	+ .1875
41.	Full length	17.3125	16.9375	- .3750	17.1250	- .1875
42.	Neck curve	3.3750	3.1250	- .2500	2.8750	- .5000
43.	Neck curve depth	.5000	.4375	- .0625	.4375	- .0625
44.	Armhole curve depth	.7500	.6250	- .1250	.7500	.0000
45.	Armhole depth	7.0000	7.6875	+ .6875	7.8125	+ .8125
46.	Armhole width	2.4375	1.3125	- 1.1250	1.5000	- .9375
47.	Shoulder dart	7.0000	--	--	--	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	6.0°	- 1.5°	8.0°	+ .5°

X TABLE III (Continued)

MENTS OF SIZE 16 PATTERNS  
 E BASIC PATTERNS IN THESE MEASUREMENTS  
 BRAND C

Blouse Back

Patterns							
	C2		C3		C4		
Measurement*	Measurement*	Variation*	Measurement*	Variation*	Measurement*	Variation*	
875	16.3750	+ .0625	16.3125	.0000	16.3125	.0000	
875	2.6875	- .3750	3.1250	+ .0625	3.1875	+ .1250	
875	.7500	- .2500	.6875	- .3125	.8125	- .1875	
000	7.8750	+ .4375	7.6875	+ .2500	8.1250	+ .6875	
000	16.6250	- .2500	16.8750	.0000	18.3750	+ 1.5000	
625	1.9375	- .2500	1.7500	- .4375	1.8750	- .3125	
625	5.5000	+ .6875	5.2500	+ .4375	5.2500	+ .4375	
625	7.8125	+ .0625	8.0625	+ .3125	8.0625	+ .3125	
625	7.3125	- .0625	7.4375	+ .0625	7.5625	+ .1875	
875	8.8125	- .6250	8.8125	- .6250	8.9375	- .5000	
625	9.1875	- .8750	9.1875	- .8750	9.3125	- .7500	
125	15.6875	- .0625	15.8750	+ .1250	15.8125	+ .0625	
125	8.0000	- .8125	8.1250	- .6875	8.1250	- .6875	
600	6.3750	- .6875	6.2500	- .8125	6.3125	- .7500	
000	8.8125	+ .1875	8.9375	+ .3125	9.0000	+ .3750	
750	17.1250	- .1875	16.9375	- .3750	17.0625	- .2500	
600	2.8750	- .5000	2.8125	- .5625	3.3750	.0000	
625	.4375	- .0625	.5000	.0000	.3750	- .1250	
250	.7500	.0000	.6875	- .0625	.4375	- .3125	
875	7.8125	+ .8125	7.9375	+ .9375	7.8750	+ .8750	
250	1.5000	- .9375	1.2500	- 1.1875	1.3125	- 1.1250	
	--	--	--	--	--	--	
	--	--	7.0°	--	--	--	
	8.0°	+ .5°	8.0°	+ .5°	7.5°	.0°	

## APPENDIX TABLE III (Continued)

MEASUREMENTS OF SIZE 16 PATTERN  
AND VARIATIONS FROM THE BASIC PATTERN IN THE  
BRAND CSleeve

Number	Name of Measurement	Basic Pattern	C1		C2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
50.	Bicep	14.2500	13.7500	- .5000	14.0000	- .2500
51.	Overarm length	24.8125	--	--	--	--
52.	Sleeve cap height	6.0000	6.6250	+ .6250	6.3750	+ .3750
53.	Overarm to elbow	13.8750	--	--	--	--
54.	Overarm length	18.3750	--	--	--	--
55.	Underarm length from bicep to elbow	7.8750	--	--	--	--
56.	Elbow girth	13.2500	--	--	--	--
57.	Wrist girth	7.0625	--	--	--	--
58.	Cap curve	19.9375	19.5000	- .4375	19.7500	- .1875

TABLE III (Continued)

MENTS OF SIZE 16 PATTERNS  
 THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND C

Sleeve

Patterns							
	C2		C3		C4		
a- n*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
00	14.0000	- .2500	14.0000	- .2500	14.0000	- .2500	
	--	--	24.4375	- .3750	--	--	
50	6.3750	+ .3750	6.8750	+ .8750	6.8750	+ .8750	
	--	--	14.6250	+ .7500	--	--	
	--	--	17.3125	- 1.0625	--	--	
	--	--	7.9375	+ .0625	--	--	
	--	--	11.7500	- 1.5000	--	--	
	--	--	7.9375	+ .8750	--	--	
75	19.7500	- .1875	20.3125	+ .3750	20.3750	+ .4375	

## APPENDIX TABLE IV

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND D

Blouse Front

Number	Name of Measurement	Basic Pattern	Patterns			
			D1		D2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
1.	Center front length	14.7500	15.0000	+ .2500	15.1250	+ .3750
2.	Neck width	2.3750	2.3750	.0000	2.3750	.0000
3.	Neck depth	2.6875	2.9375	+ .2500	2.6875	.0000
4.	Across shoulder	7.1250	8.0000	+ .8750	7.9375	+ .8125
5.	Slope of shoulder	17.8750	17.1250	- .7500	19.8750	+ 2.0000
6.	Drop of shoulder	1.0000	1.5000	+ .5000	1.0625	+ .0625
7.	Shoulder seam	4.6250	5.6875	+ 1.0625	5.5000	+ .8750
8.	Across chest	7.0000	7.1875	+ .1875	7.2500	+ .2500
9.	Bust width	10.0625	10.1250	+ .0625	10.3750	+ .3125
10.	Upper bust width	10.1875	10.0000	- .1875	10.1250	- .0625
11.	Full side length	11.3125	15.5625	+ 4.2500	15.4375	+ 4.1250
12.	Underarm length	8.8750	7.9375	- .9375	7.6875	- 1.1875
13.	Waist width	7.5625	7.6250	+ .0625	7.7500	+ .1875
14.	Armhole curve	8.6250	8.7500	+ .1250	8.8750	+ .2500
15.	Height of bust	7.3750	7.5000	+ .1250	7.5625	+ .1875
16.	Armhole curve depth	.8750	1.2500	+ .3750	1.4375	+ .5625
17.	Neck curve depth	.7500	.4375	- .3125	.6875	- .0625
18.	Bust point width	4.0625	3.7500	- .3125	3.7500	- .3125
19.	Full length	17.4375	17.8750	+ .4375	17.7500	+ .3125
20.	Neck curve	3.8750	4.2500	+ .3750	4.0000	+ .1250
21.	Dart point to bust point	.5625	1.2500	+ .6875	1.2500	+ .6875
22.	Armhole depth	5.8125	7.0000	+ 1.1875	7.0000	+ 1.1875
23.	Armhole width	3.3125	2.1250	- 1.1875	2.3750	- .9375
24.	Shoulder to waist	17.5625	18.1250	+ .5625	18.0625	+ .5000
25.	Waist dart	30.5°	24.0°	- 6.5°	28.0°	- 2.5°

\*Measurements and variations are given in inches except for measurements and variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.



## APPENDIX TABLE IV (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND D

Blouse Back

Number	Name of Measurement	Basic Pattern	Patterns			
			D1		D2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
26.	Center back length	16.3125	17.0000	+ .6875	17.0000	+ .6875
27.	Neck width	3.0625	2.7500	- .3125	2.7500	- .3125
28.	Neck depth	1.0000	.6875	- .3125	.7500	- .2500
29.	Across shoulder	7.4375	8.7500	+ 1.3125	8.3750	+ .9375
30.	Slope of shoulder	16.8750	19.6875	+ 2.8125	17.3750	+ .5000
31.	Drop of shoulder	2.1875	2.2500	+ .0625	1.8750	- .3125
32.	Shoulder seam	4.8125	5.7500	+ .9375	5.8125	+ 1.0000
33.	Shoulder draft width	7.7500	8.6250	+ .8750	8.2500	+ .5000
34.	Across chest	7.3750	7.9375	+ .5625	7.6375	+ .3125
35.	Bust width	9.4375	9.3750	- .0625	9.5000	+ .0625
36.	Upper bust width	10.0625	9.6250	- .4375	9.7500	- .3125
37.	Full side length	15.7500	16.3750	+ .6250	16.1875	+ .4375
38.	Underarm length	8.8125	8.0625	- .7500	7.7500	- 1.0625
39.	Waist width	7.0625	6.8125	- .2500	6.7500	- .3125
40.	Armhole curve	8.6250	9.3125	+ .6875	9.5625	+ .9375
41.	Full length	17.3125	17.7500	+ .4375	17.7500	+ .4375
42.	Neck curve	3.3750	2.9375	- .4375	2.9375	- .4375
43.	Neck curve depth	.5000	.1875	- .3125	.4375	- .0625
44.	Armhole curve depth	.7500	.8125	+ .0625	.9375	+ .1875
45.	Armhole depth	7.0000	8.3750	+ 1.3750	8.3750	+ 1.3750
46.	Armhole width	2.4375	1.3125	- 1.1250	1.6875	- .7500
47.	Shoulder dart	7.0°	7.5°	+ .5°	--**	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	10.5°	+ 3.0°	12.0°	+ 4.5°

## APPENDIX TABLE IV (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN OF THESE MEASUREMENTS  
BRAND DSleeve

Number	Name of Measurement	Basic Pattern	Patterns			
			D1		D2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
50.	Bicep	14.2500	14.3125	+ .0625	14.6250	+ .3750
51.	Overarm length	24.8125	24.7500	+ .0625	25.0000	+ .1875
52.	Sleeve cap height	6.0000	6.5000	+ .5000	6.6250	+ .6250
53.	Overarm to elbow	13.8750	14.6250	+ .7500	14.8125	+ .9375
54.	Underarm length	18.3750	17.9375	- .4375	18.0000	- .3750
55.	Underarm length from bicep to elbow	7.8750	8.2500	+ .3750	8.2500	+ .3750
56.	Elbow girth	13.2500	12.4375	- .8125	12.5000	- .7500
57.	Wrist girth	7.0625	7.8750	+ .8125	7.8750	+ .8125
58.	Cap curve	19.9375	20.1875	+ .2500	20.5000	+ .5625

## APPENDIX TABLE V

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND E

Blouse Front

Number	Name of Measurements	Basic Pattern	Patterns			
			E1		E2	
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
1.	Center front length	14.7500	14.2500	- .5000	14.8750	+ .1250
2.	Neck width	2.3750	2.3750	.0000	1.9375	- .4375
3.	Neck depth	2.6875	3.6250	+ .9375	3.1250	+ .4375
4.	Across shoulder	7.1250	8.6250	+ 1.5000	8.0625	+ .9375
5.	Slope of shoulder	17.8750	19.2500	+ 1.3750	19.1250	+ 1.2500
6.	Drop of shoulder	1.0000	.5000	- .5000	.5000	- .5000
7.	Shoulder seam	4.6250	5.6250	+ 1.0000	5.6875	+ 1.0625
8.	Across chest	7.0000	7.1250	+ .1250	7.3750	+ .3750
9.	Bust width	10.0625	10.5625	+ .5000	10.2500	+ .1875
10.	Upper bust width	10.1875	10.0000	- .1875	9.8750	- .3125
11.	Full side length	11.3125	16.1875	+ 4.8750	16.1250	+ 4.8125
12.	Underarm length	8.8750	8.7500	- .1250	8.1875	- .6875
13.	Waist width	7.5625	7.6875	+ .1250	7.6250	+ .0625
14.	Armhole curve	8.6250	8.6250	.0000	8.9375	+ .3125
15.	Height of bust	7.3750	7.1250	- .2500	7.4375	+ .0625
16.	Armhole curve depth	.8750	.7500	- .1250	1.1875	+ .3125
17.	Neck curve depth	.7500	1.3750	+ .6250	.8125	+ .0625
18.	Bust point width	4.0625	4.0625	.0000	4.0000	- .0625
19.	Full length	17.4375	17.8750	+ .4375	18.0000	+ .5625
20.	Neck curve	3.8750	4.5000	+ .6250	4.0000	+ .1250
21.	Dart point to bust point	.5625	---**	--	--	--
22.	Armhole depth	5.3125	6.8125	+ 1.0000	7.3750	+ 1.5625
23.	Armhole width	3.3125	2.0000	+ 1.3125	2.2500	- 1.0625
24.	Shoulder to waist	17.5625	18.1875	+ .6250	18.2500	+ .6875
25.	Waist dart	30.5°	31.0°	.5°	30.0°	.5°

\*Measurements and variations are given in inches except for measurements and variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE V (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND E

Blouse Back

Number	Name of Measurement	Basic Pattern	Patterns			
			E1		E2	
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
26.	Center back length	16.3125	16.5000	+ .1875	16.2500	- .0625
27.	Neck width	3.0625	2.8750	- .1875	2.8125	- .2500
28.	Neck depth	1.0000	1.1875	+ .1875	1.3125	+ .3125
29.	Across shoulder	7.4375	8.1875	+ .7500	8.1875	+ .7500
30.	Slope of shoulder	16.8750	18.0625	+ 1.1875	17.8125	+ .9375
31.	Drop of shoulder	2.1875	1.5625	- .6250	1.7500	- .4375
32.	Shoulder seam	4.8125	5.5625	+ .7500	5.6875	+ .8750
33.	Shoulder draft width	7.7500	8.1250	+ .3750	8.1875	+ .4375
34.	Across chest	7.3750	7.5000	+ .1250	7.4375	+ .0625
35.	Bust width	9.4375	9.0000	- .4375	9.0000	- .4375
36.	Upper bust width	10.0625	9.6250	- .4375	9.2500	- .8125
37.	Full side length	15.7500	16.6875	+ .9375	16.5000	+ .7500
38.	Underarm length	8.8125	8.7500	- .0625	8.1250	- .6875
39.	Waist width	7.0625	6.8750	- .1875	7.0000	- .0625
40.	Armhole curve	8.6250	9.1875	+ .5625	9.5000	+ .8750
41.	Full length	17.3125	17.6875	+ .3750	17.5000	+ .1875
42.	Neck curve	3.3750	3.1875	- .1875	3.2500	- .1250
43.	Neck curve depth	.5000	.7500	+ .2500	.6875	+ .1875
44.	Armhole curve depth	.7500	.6875	- .0625	.7500	.0000
45.	Armhole depth	7.0000	7.9375	+ .9375	8.3750	+ 1.3750
46.	Armhole width	2.4375	1.3750	- 1.0625	1.1875	- 1.2500
47.	Shoulder dart	7.0°	--**	--	--	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	9.5°	+ 2.0°	8.0°	+ .5°

## APPENDIX TABLE V (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND E

Sleeve

Number	Name of Measurement	Basic Pattern	Patterns			
			E1		E2	
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
50.	Bicep	14.2500	13.8125	- .4375	13.8125	- .4375
51.	Overarm length	24.8125	--**	--	--	--
52.	Sleeve cap height	6.0000	6.5625	+ .5625	6.5625	+ .5625
53.	Overarm to elbow	13.8750	--	--	--	--
54.	Underarm length	18.3750	--	--	--	--
55.	Underarm length from bicep to elbow	7.8750	--	--	--	--
56.	Elbow girth	13.2500	--	--	--	--
57.	Wrist girth	7.0625	--	--	--	--
58.	Cap curve	19.9375	19.6875	- .2500	19.8750	- .0625

## APPENDIX TABLE VI

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND F

Blouse Front

Number	Name of Measurement	Basic Pattern	Patterns			
			F1		F2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
1.	Center front length	14.7500	14.8750	+ .1250	14.6250	- .1250
2.	Neck width	2.3750	2.5625	+ .1875	2.5000	+ .1250
3.	Neck depth	2.6875	3.5000	+ .8125	3.4375	+ .7500
4.	Across shoulder	7.1250	8.1875	+ 1.0625	8.1250	+ 1.0000
5.	Slope of shoulder	17.8750	18.3750	+ .5000	18.1875	+ .3125
6.	Drop of shoulder	1.0000	1.7500	+ .7500	1.7500	+ .7500
7.	Shoulder seam	4.6250	5.7500	+ 1.1250	5.6875	+ 1.0625
8.	Across chest	7.0000	7.4375	+ .4375	7.3750	+ .3750
9.	Bust width	10.0625	10.5000	+ .4375	10.5000	+ .4375
10.	Upper bust width	10.1875	10.3125	+ .1250	10.5000	+ .3125
11.	Full side length	11.3125	15.5000	+ 4.1875	15.7500	+ 4.4375
12.	Underarm length	8.8750	8.6875	- .1875	8.1875	- .6875
13.	Waist width	7.5625	7.9375	+ .3750	7.8125	+ .2500
14.	Armhole curve	8.6250	8.9375	+ .3125	9.0000	+ .3750
15.	Height of bust	7.3750	7.4375	+ .0625	7.3125	- .0625
16.	Armhole curve depth	.8750	1.3125	+ .4375	1.1875	+ .3125
17.	Neck curve depth	.7500	.5000	- .2500	.5000	- .2500
18.	Bust point width	4.0625	3.8750	- .1875	4.3125	+ .2500
19.	Full length	17.4375	18.3750	+ .9375	18.0625	+ .6250
20.	Neck curve	3.8750	4.8125	+ .9375	4.7500	+ .8750
21.	Dart point to bust point	.5625	.5000	- .0625	---**	--
22.	Armhole depth	5.8125	7.0000	+ 1.1875	7.0000	+ 1.1875
23.	Armhole width	3.3125	2.3750	- .9375	2.5000	- .8125
24.	Shoulder to waist	17.5625	18.6250	+ 1.0625	18.4375	+ .8750
25.	Waist dart	30.5°	24.0°	- 6.5°	22.0°	- 8.5°

\*Measurements and variations are given in inches except for measurements and variations 25, 47, 48, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE VI (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND FBlouse Back

Number	Name of Measurement	Basic Pattern	Patterns			
			F1		F2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
26.	Center back length	16.3125	17.0625	+ .7500	16.5000	+ .1875
27.	Neck width	3.0625	2.6250	- .4375	2.5625	- .5000
28.	Neck depth	1.0000	.5625	- .4375	.6250	- .3750
29.	Across shoulder	7.4375	8.2500	+ .8125	8.3750	+ .9375
30.	Slope of shoulder	16.8750	17.3125	+ .4375	17.1250	+ .2500
31.	Drop of shoulder	2.1875	1.7500	- .4375	1.7500	- .4375
32.	Shoulder seam	4.8125	5.8750	+ 1.0625	6.0000	+ 1.1875
33.	Shoulder draft width	7.7500	8.1875	+ .4375	8.2500	+ .5000
34.	Across chest	7.3750	7.5000	+ .1250	7.6250	+ .2500
35.	Bust width	9.4375	8.9375	- .5000	9.0625	- .3750
36.	Upper bust width	10.0625	9.3125	- .7500	9.2500	- .8125
37.	Full side length	15.7500	16.1875	+ .4375	15.6250	- .1250
38.	Underarm length	8.8125	8.6250	- .1875	8.1250	- .6875
39.	Waist width	7.0625	6.9375	- .1250	6.9375	- .1250
40.	Armhole curve	8.6250	8.3750	- .2500	8.8750	+ .2500
41.	Full length	17.3125	17.6250	+ .3125	17.1875	- .1250
42.	Neck curve	3.3750	2.7500	+ .3750	2.6250	- .7500
43.	Neck curve depth	.5000	.3750	- .1250	.4375	- .0625
44.	Armhole curve depth	.7500	.8750	+ .1250	.8750	+ .1250
45.	Armhole depth	7.0000	7.4375	+ .4375	7.5000	+ .5000
46.	Armhole width	2.4375	1.1875	- 1.2500	1.1875	- 1.2500
47.	Shoulder dart	7.0°	--	--	--	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	10.0°	+ 2.5°	12.0°	+ 4.5°

## APPENDIX TABLE VI (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND F

Sleeve

Number	Name of Measurement	Basic Pattern	Patterns			
			F1		F2	
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
50.	Bicep	14.2500	14.1250	- .1250	14.1250	- .1250
51.	Overarm length	24.8125	24.5000	- .3125	24.2500	- .5625
52.	Sleeve cap height	6.0000	6.5625	+ .5625	6.5000	+ .5000
53.	Overarm to elbow	13.8750	14.5625	+ .6875	14.3750	+ .5000
54.	Underarm length	18.3750	17.5000	- .8750	17.5000	- .8750
55.	Underarm length from bicep to elbow	7.8750	8.0625	+ .1875	8.0000	+ .1250
56.	Elbow girth	13.2500	11.5625	- 1.6875	11.5000	- 1.7500
57.	Wrist girth	7.0625	7.6875	+ .1250	7.6250	+ .5625
58.	Cap curve	19.9375	20.5625	+ .6250	20.5000	+ .5625



## APPENDIX TABLE VII

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND G

Blouse Front

Number	Name of Measurement	Basic Pattern	Patterns			
			G1		G2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
1.	Center front length	14.7500	14.1875	- .5625	14.5000	- .2500
2.	Neck width	2.3750	2.4375	+ .0625	2.5625	+ .1875
3.	Neck depth	2.6875	3.1250	+ .4375	2.8125	+ .1250
4.	Across shoulder	7.1250	7.1875	+ .0625	7.6875	+ .5625
5.	Slope of shoulder	17.8750	17.5000	- .3750	17.7500	- .1250
6.	Drop of shoulder	1.0000	1.1875	+ .1875	1.4375	+ .4375
7.	Shoulder seam	4.6250	4.6875	+ .0625	5.2500	+ .6250
8.	Across chest	7.0000	6.3125	- .6875	7.3750	+ .3750
9.	Bust width	10.0625	9.6250	- .4375	10.8125	+ .7500
10.	Upper bust width	10.1875	9.3125	- .8750	10.3750	+ .1875
11.	Full side length	11.3125	15.1250	+ 3.8125	14.6250	+ 3.3125
12.	Underarm length	8.8750	7.6250	- 1.2500	7.5625	- 1.3125
13.	Waist width	7.5625	6.8750	- .6875	7.8750	+ .3125
14.	Armhole curve	8.6250	9.0625	+ .4375	8.5625	- .0625
15.	Height of bust	7.3750	7.1250	- .2500	7.2500	- .1250
16.	Armhole curve depth	.8750	1.0000	+ .1250	1.1250	+ .2500
17.	Neck curve depth	.7500	.6250	- .1250	.2500	- .5000
18.	Bust point width	4.0625	4.1875	+ .1250	4.2500	+ .1875
19.	Full length	17.4375	17.2500	- .1875	17.5000	- .0625
20.	Neck curve	3.8750	4.2500	+ .3750	4.1875	+ .3125
21.	Dart point to bust point	.5625	--**	--	--	--
22.	Armhole depth	5.8125	6.8750	+ 1.0625	6.2500	+ .4375
23.	Armhole width	3.3125	2.3750	- .9375	2.8125	- .5000
24.	Shoulder to waist	17.5625	17.6875	+ .1250	17.7500	+ .1875
25.	Waist dart	30.5°	27.5°	- 3.0°	32.0°	+ 1.5°

\*Measurements and variations are given in inches except for measurements and variations 25, 47, and 49, which are given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE VII (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND GBlouse Back

Number	Name of Measurement	Basic Pattern	Patterns			
			G1		G2	
			Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
26.	Center back length	16.3125	15.9375	- .3750	16.5000	+ .1875
27.	Neck width	3.0625	2.9375	- .1250	2.7500	- .3125
28.	Neck depth	1.0000	1.3125	+ .3125	1.2500	+ .2500
29.	Across shoulder	7.4375	7.8750	+ .4375	7.8750	+ .4375
30.	Slope of shoulder	16.8750	17.6250	+ .7500	18.3125	+ 1.4375
31.	Drop of shoulder	2.1875	1.3125	- .8750	1.3125	- .8750
32.	Shoulder seam	4.8125	5.0000	+ .1875	5.3125	+ .5000
33.	Shoulder draft width	7.7500	8.3750	+ .6250	7.8750	+ .1250
34.	Across chest	7.3750	7.2500	- .1250	8.0000	+ .6250
35.	Bust width	9.4375	9.6250	+ .1875	10.3750	+ .9375
36.	Upper bust width	10.0625	9.9375	- .1250	10.5000	+ .4375
37.	Full side length	15.7500	16.1250	+ .3750	16.1875	+ .4375
38.	Underarm length	8.8125	7.8750	- .9375	7.5000	- 1.3125
39.	Waist width	7.0625	7.4375	+ .3750	7.0625	.0000
40.	Armhole curve	8.6250	9.6875	+ 1.0625	9.7500	+ 1.1250
41.	Full length	17.3125	17.2500	- .0625	17.8750	+ .5625
42.	Neck curve	3.3750	3.3125	- .0625	3.3125	- .0625
43.	Neck curve depth	.5000	.6875	+ .1875	.3750	- .1250
44.	Armhole curve depth	.7500	.8750	+ .1250	1.1250	+ .3750
45.	Armhole depth	7.0000	8.0000	+ 1.0000	8.3750	+ 1.3750
46.	Armhole width	2.4375	1.6250	- .8125	2.7500	+ .3125
47.	Shoulder dart	7.0°	8.0°	+ 1.0°	--	--
48.	Neck dart	--	--	--	--	--
49.	Waist dart	7.5°	11.0°	+ 3.5°	23.0°	+15.5°

## APPENDIX TABLE VII (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
BRAND G

Sleeve

Number	Name of Measurement	Basic Pattern	Patterns			
			G1		G2	
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
50.	Bicep	14.2500	14.8750	+ .6250	15.0000	+ .7500
51.	Overarm length	24.8125	24.3750	- .4375	--	--
52.	Sleeve cap height	6.0000	6.6250	+ .6250	6.1875	+ .1875
53.	Overarm to elbow	13.8750	15.1875	+ 1.3125	--	--
54.	Underarm length	18.3750	18.0000	+ .3750	--	--
55.	Underarm length from bicep to elbow	7.8750	8.6250	+ .7500	--	--
56.	Elbow girth	13.2500	13.5000	+ .2500	--	--
57.	Wrist girth	7.0625	9.7500	+ 2.6875	--	--
58.	Cap curve	19.9375	20.9375	+ 1.0000	21.2500	+ 1.3125

## APPENDIX TABLE VIII

MEASUREMENT OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE  
BRAND HBlouse Front

Number	Name of Measurement	Basic Pattern	H1		H2		Pa
			Measure-ment*	Varia-tion*	Measure-ment*	Varia-tion*	
1.	Center front length	14.7500	15.1250	+ .3750	14.8750	+ .1250	
2.	Neck width	2.3750	3.6250	+ 1.2500	2.6875	+ .3125	
3.	Neck depth	2.6875	3.0000	+ .3125	3.1875	+ .5000	
4.	Across shoulder	7.1250	7.8125	+ .6875	7.9375	+ .8125	
5.	Slope of shoulder	17.8750	18.3125	+ .4375	18.4375	- .5625	
6.	Drop of shoulder	1.0000	1.4375	+ .4375	1.4375	+ .4375	
7.	Shoulder seam	4.6250	5.2500	+ .6250	5.3125	+ .6875	
8.	Across chest	7.0000	7.2500	+ .2500	7.3125	+ .3125	
9.	Bust width	10.0625	10.5625	+ .5000	10.7500	+ .6875	
10.	Upper bust width	10.1875	10.3750	+ .1875	10.3125	+ .1250	
11.	Full side length	11.3125	15.5625	+ 4.2500	15.0000	+ 3.6875	
12.	Underarm length	8.8750	8.1875	- .6875	7.4375	- 1.4375	
13.	Waist width	7.5625	7.3750	- .1875	7.1250	- .4375	
14.	Armhole curve	8.6250	8.9375	+ .3125	8.9375	+ .3125	
15.	Height of bust	7.3750	7.5625	+ .1875	7.4375	+ .0625	
16.	Armhole curve depth	.8750	1.1250	+ .2500	1.4375	+ .5625	
17.	Neck curve depth	.7500	.5625	- .1875	.6875	+ .0625	
18.	Bust point width	4.0625	4.0000	- .0625	4.5625	+ .5000	
19.	Full length	17.4375	18.1250	+ .6875	18.0625	+ .6250	
20.	Neck curve	3.8750	4.4375	+ .5625	4.5000	+ .6250	
21.	Dart point to bust point	.5625	1.6875	+ 1.1250	--**	--	
22.	Armhole depth	5.8125	6.6875	+ .8750	6.8750	+ 1.0625	
23.	Armhole width	3.3125	2.7500	- .5625	2.5000	- .8125	
24.	Shoulder to waist	17.5625	18.3750	+ .8125	18.4375	+ .8750	
25.	Waist dart	30.5°	28.0°	- 2.5°	37.0°	+ 6.5°	

\*Measurements and variations are given in inches except for measurements given in degrees.

-Indicates variation was less than the basic pattern.

+Indicates variation was greater than the basic pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE VIII

MEASUREMENT OF SIZE 16 PATTERNS  
 S FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND H

Blouse Front

Patterns							
H1	H2		H3		H4		
Variation*	Measurement*	Variation*	Measurement*	Variation*	Measurement*	Variation*	
+ .3750	14.8750	+ .1250	15.2500	+ .5000	15.1875	+ .4375	
+ 1.2500	2.6875	+ .3125	2.6875	+ .3125	2.6250	+ .2500	
+ .3125	3.1875	+ .5000	2.8750	+ .1875	3.3750	+ .6875	
+ .6875	7.9375	+ .8125	8.9375	+ 1.8125	7.8750	+ .7500	
+ .4375	18.4375	- .5625	18.4375	- .5625	17.2500	- .6250	
+ .4375	1.4375	+ .4375	1.4375	+ .4375	1.4375	+ .4375	
+ .6250	5.3125	+ .6875	5.3125	+ .6875	5.2500	+ .6250	
+ .2500	7.3125	+ .3125	7.1875	+ .1875	7.1875	+ .1875	
+ .5000	10.7500	+ .6875	10.6875	+ .6250	10.5625	+ .5000	
+ .1875	10.3125	+ .1250	10.3750	+ .1875	10.3750	+ .1875	
+ 4.2500	15.0000	+ 3.6875	14.8750	+ 3.5625	15.4375	+ 4.1250	
- .6875	7.4375	- 1.4375	7.1875	- 1.6875	8.1250	- .7500	
- .1875	7.1250	- .4375	7.1250	- .4375	7.1250	- .4375	
+ .3125	8.9375	+ .3125	9.0000	+ .3750	8.8125	+ .1875	
+ .1875	7.4375	+ .0625	7.6250	+ .2500	7.5625	+ .1875	
+ .2500	1.4375	+ .5625	1.4375	+ .5625	1.1250	+ .2500	
- .1875	.6875	+ .0625	.5625	- .1875	.7500	.0000	
- .0625	4.5625	+ .5000	3.8750	- .1875	3.5000	- .5625	
+ .6875	18.0625	+ .6250	18.1250	+ .6875	18.0625	+ .6250	
+ .5625	4.5000	+ .6250	4.3125	+ .4375	4.8750	+ 1.0000	
+ 1.1250	--**	--	2.0000	+ 1.4375	--	--	
+ .8750	6.8750	+ 1.0625	6.8750	+ 1.0625	6.6250	+ .8125	
- .5625	2.5000	- .8125	2.5625	- .7500	2.6250	- .6875	
+ .8125	18.4375	+ .8750	18.3750	+ .8125	18.0000	+ .4375	
- 2.5°	37.0°	+ 6.5°	35.5°	+ 5.0°	13.0°	-17.5°	

n inches except for measurements and variations 25, 47, 48, and 49, which are

asic pattern.

e basic pattern.

## APPENDIX TABLE VIII (Continued)

MEASUREMENTS OF SIZE 16 Patterns  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE  
BRAND HBlouse Back

Number	Name of Measurement	Basic Pattern	H1		H2		Pa
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
26.	Center back length	16.3125	16.3125	.0000	16.3750	+	.0625
27.	Neck width	3.0625	2.7500	-.3125	2.9375	-	.1250
28.	Neck depth	1.0000	.7500	-.2500	.8125	-	.1875
29.	Across shoulder	7.4375	8.0625	+.6250	8.2500	+	.8125
30.	Slope of shoulder	16.8750	18.2500	+ 1.3750	17.4375	+	.5625
31.	Drop of shoulder	2.1875	1.7500	-.4375	1.7500	-	.4375
32.	Shoulder seam	4.8125	5.5000	+.6875	5.5625	+	.7500
33.	Shoulder draft width	7.7500	8.0000	+.2500	8.1875	+	.4375
34.	Across chest	7.3750	7.3750	.0000	7.5000	+	.1250
35.	Bust width	9.4375	9.2500	-.1875	9.4375	-	.0000
36.	Upper bust width	10.0625	9.6250	- 1.0000	9.8125	-	.2500
37.	Full side length	15.7500	15.5000	-.2500	15.6250	-	.1250
38.	Underarm length	8.8125	8.1250	-.6875	8.1875	-	.6250
39.	Waist width	7.0625	6.7500	-.3125	6.8750	-	.1875
40.	Armhole curve	8.6250	8.6875	+.0625	8.8750	+	.2500
41.	Full length	17.3125	17.0625	-.2500	17.1250	-	.1875
42.	Neck curve	3.3750	3.0000	-.3750	3.1250	-	.2500
43.	Neck curve depth	.5000	.4375	-.0625	.4375	-	.0625
44.	Armhole curve depth	.7500	.8125	+.0625	.8125	+	.0625
45.	Armhole depth	7.0000	7.5000	+.5000	7.3750	+	.3750
46.	Armhole width	2.4375	1.6875	-.7500	1.6250	-	.8125
47.	Shoulder dart	7.0°	--	--	--	--	--
48.	Neck dart	--	--	--	--	--	--
49.	Waist dart	7.5°	7.5°	.0°	14.0°	+	6.5°

## APPENDIX TABLE VIII (Continued)

MEASUREMENTS OF SIZE 16 Patterns  
 FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND H

Blouse Back

Patterns							
H2			H3			H4	
Variation*	Measurement*		Variation*	Measurement*	Variation*	Measurement*	Variation*
	.0000			16.6250		16.6250	
-	.3125	+	.0625	16.6250	+	.3125	+
-	.2500	-	.1250	3.3125	+	.2500	+
+	.6250	-	.1875	.4375	-	.5625	-
+	1.3750	+	.8125	8.2500	+	.8125	+
-	.4375	+	.5625	16.7500	-	.1250	+
+	.6875	-	.4375	2.1250	-	.0625	-
		+	.7500	5.5000	+	.6875	+
+	.2500			8.3750	+	.6250	+
	.0000	+	.1250	7.6875	+	.3125	+
-	.1875	-	.0000	9.1875	-	.2500	-
-	1.0000	-	.2500	9.5000	-	.5625	-
-	.2500	-	.1250	15.4375	-	.3125	-
-	.3875	-	.6250	8.1875	-	.6250	-
-	.3125	-	.1875	6.8750	-	.1875	-
+	.0625	+	.2500	8.6875	+	.0625	+
-	.2500	-	.1875	17.0625	-	.2500	-
-	.3750	-	.2500	3.0625	-	.3125	-
-	.0625	-	.0625	.3125	-	.1875	-
+	.0625	+	.0625	.5000	-	.2500	-
+	.5000	+	.3750	7.4375	+	.4375	+
-	.7500	-	.8125	1.2500	-	1.1875	-
--	--	--	--	--	--	--	--
--	--	--	--	5.0°	--	4.5°	--
.0°	14.0°	+	6.5°	6.0°	-	1.5°	+
						14.0°	+

## APPENDIX TABLE VIII (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
AND VARIATIONS FROM THE BASIC PATTERN IN THESE  
BRAND HSleeve

Number	Name of Measurement	Basic Pattern	H1		H2		Pa
			Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
50.	Bicep	14.2500	13.6250	- .6250	13.8125	- .4375	
51.	Overarm length	24.8125	23.9375	- .8750	24.7500	- .0625	
52.	Sleeve cap height	6.0000	6.4375	+ .4375	6.7500	+ .7500	
53.	Overarm to elbow	13.8750	14.1875	+ .3125	14.7500	+ .8750	
54.	Underarm length	18.3750	17.0625	- 1.3125	17.6875	- .6875	
55.	Underarm length from bicep to elbow	7.8750	7.8750	.0000	8.1250	+ .2500	
56.	Elbow girth	13.2500	11.6250	- 1.6250	11.7500	- 1.5000	
57.	Wrist girth	7.0625	8.5000	+ 1.4375	8.4375	+ 1.3750	
58.	Cap curve	19.9375	19.6875	- .2500	20.2500	+ .3125	



## DIX TABLE VIII (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
 FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND H

Sleeve

Patterns							
H2			H3			H4	
Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*	Variation*
.6250	13.8125	- .4375	13.6875	- .5625	13.7500	- .5000	
.8750	24.7500	- .0625	24.0000	- .8125	24.0625	- .7500	
.4375	6.7500	+ .7500	6.5000	+ .5000	6.5000	+ .5000	
.3125	14.7500	+ .8750	14.2500	+ .3750	14.2500	+ .3750	
.3125	17.6875	- .6875	17.1250	- 1.1250	17.1250	- 1.2500	
.0000	8.1250	+ .2500	7.8750	.0000	7.8750	.0000	
1.6250	11.7500	- 1.5000	11.4375	- 1.8125	11.6250	- 1.6250	
1.4375	8.4375	+ 1.3750	8.5000	+ .4375	8.5000	+ 1.4375	
.2500	20.2500	+ .3125	19.8750	- .0625	19.8750	- .0625	

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## APPENDIX TABLE VIII (Continued)

MEASUREMENTS OF SIZE 16 PATTERNS  
 FROM THE BASIC PATTERN IN THESE MEASUREMENTS  
 BRAND H

Sleeve

Patterns						
H1	H2		H3		H4	
Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*	Measure- ment*	Variation*
- .6250	13.8125	- .4375	13.6875	- .5625	13.7500	- .5000
- .8750	24.7500	- .0625	24.0000	- .8125	24.0625	- .7500
+ .4375	6.7500	+ .7500	6.5000	+ .5000	6.5000	+ .5000
+ .3125	14.7500	+ .8750	14.2500	+ .3750	14.2500	+ .3750
- 1.3125	17.6875	- .6875	17.1250	- 1.1250	17.1250	- 1.2500
.0000	8.1250	+ .2500	7.8750	.0000	7.8750	.0000
- 1.6250	11.7500	- 1.5000	11.4375	- 1.8125	11.6250	- 1.6250
+ 1.4375	8.4375	+ 1.3750	8.5000	+ .4375	8.5000	+ 1.4375
- .2500	20.2500	+ .3125	19.8750	- .0625	19.8750	- .0625

APPENDIX TABLE IX

MEASUREMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS - STYLE  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Size				
		14	16	18	18	18
		Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion
1.	Center front length	14.2500	.3125	14.5625	15.0000	.4375
2.	Neck width	2.1875	- .0625	2.1250	2.3750	.2500
3.	Neck depth	3.5000	.1250	3.6250	3.7500	.1250
4.	Across shoulder	7.7500	.1250	7.8750	8.3125	.4375
5.	Slope of shoulder	18.1250	.5625	18.6875	19.1250	.4375
6.	Drop of shoulder	1.1250	.0000	1.1250	1.3125	.1875
7.	Shoulder seam	5.3125	.1250	5.4375	5.6250	.1875
8.	Across chest	7.2500	.3125	7.5625	7.8750	.3125
9.	Bust width	10.2500	.6250	10.8750	11.3750	.5000
10.	Upper bust width	9.8750	.5625	10.4375	10.9375	.5000
11.	Full side length	15.3750	.3125	15.6875	16.0000	.3125
12.	Underarm length	8.0625	.1875	8.2500	8.3125	.0625
13.	Waist width	7.0000	.5625	7.5625	8.0000	.4375
14.	Armhole curve	8.5625	.5000	9.0625	9.3125	.1250
15.	Height of bust	7.1250	.1250	7.2500	7.5000	.2500
16.	Armhole curve depth	1.0000	.0625	1.0625	1.0625	.0000
17.	Neck curve depth	.5625	.1250	.6875	.6875	.0000
18.	Bust point width	3.8750	.1250	4.0000	4.0625	.0625
19.	Full length	17.7500	.5000	18.2500	18.8750	.6250
20.	Neck curve	4.5000	.0000	4.5000	4.8750	.3750
21.	Dart point to bust point	1.2500	- .1875	1.0625	1.1250	.0625
22.	Armhole depth	6.6250	.0625	6.6875	6.8125	.1250
23.	Armhole width	2.5000	.5000	3.0000	3.0625	.0625
24.	Shoulder to waist	18.1875	.5000	18.6875	19.1875	.5000
25.	Waist dart	34.0°	1.0°	35.0°	34.0°	1.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, which are in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.

## APPENDIX TABLE IX

ELEMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICEBlouse Front

		Size				
		14	16	18	20	
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
14.2500	.3125	14.5625	15.0000	.4375	15.3750	.3750
2.1875	- .0625	2.1250	2.3750	.2500	2.2500	- .1250
3.5000	.1250	3.6250	3.7500	.1250	3.8750	.1250
7.7500	.1250	7.8750	8.3125	.4375	8.3125	.0000
18.1250	.5625	18.6875	19.1250	.4375	19.6250	.5000
1.1250	.0000	1.1250	1.3125	.1875	1.3125	.0000
5.3125	.1250	5.4375	5.6250	.1875	5.7500	.1250
7.2500	.3125	7.5625	7.8750	.3125	7.9375	.0625
10.2500	.6250	10.8750	11.3750	.5000	11.9375	.5625
9.8750	.5625	10.4375	10.9375	.5000	11.3125	.3750
15.3750	.3125	15.6875	16.0000	.3125	16.3125	.3125
8.0625	.1875	8.2500	8.3125	.0625	8.3750	.0625
7.0000	.5625	7.5625	8.0000	.4375	8.6250	.6250
8.5625	.5000	9.0625	9.3125	.1250	9.6875	.3750
7.1250	.1250	7.2500	7.5000	.2500	7.6875	.1875
1.0000	.0625	1.0625	1.0625	.0000	1.1250	.0625
.5625	.1250	.6875	.6875	.0000	.6250	- .0625
3.8750	.1250	4.0000	4.0625	.0625	4.2500	.1875
17.7500	.5000	18.2500	18.8750	.6250	19.3125	.4375
4.5000	.0000	4.5000	4.8750	.3750	4.8125	.0625
1.2500	- .1875	1.0625	1.1250	.0625	1.1875	.0625
6.6250	.0625	6.6875	6.8125	.1250	6.9375	.1250
2.5000	.5000	3.0000	3.0625	.0625	3.5000	.4375
18.1875	.5000	18.6875	19.1875	.5000	19.7500	.5625
34.0°	1.0°	35.0°	34.0°	1.0°	35.5°	1.5°

n in inches except for variations 25, 47, 48, and 49, which are given in

nt of size larger pattern was less than size smaller pattern.

made on that pattern.

## APPENDIX TABLE IX (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS -  
MEDIUM PRICEBlouse Back

Number	Name of Measurement	Size				
		14		16		18
		Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*
26.	Center back length	16.2500	.4375	16.6875	17.0000	.3125
27.	Neck width	2.4375	.0625	2.5000	2.6875	.1875
28.	Neck depth	.7500	- .0625	.6875	.6875	.0000
29.	Across shoulder	7.7500	.0625	7.8125	8.0625	.2500
30.	Slope of shoulder	17.1250	- .1250	17.0000	17.8125	.8125
31.	Drop of shoulder	1.8125	.1250	1.9375	2.0000	.0625
32.	Shoulder seam	5.4375	.1250	5.5625	5.6250	.0625
33.	Shoulder draft width	8.0625	.1250	8.1875	8.0625	- .1250
34.	Across chest	7.5000	.2500	7.7500	8.0000	.2500
35.	Bust width	8.7500	.5000	9.2500	9.6875	.4375
36.	Upper bust width	9.1250	.6875	9.8125	10.1250	.3125
37.	Full side length	15.5625	.3125	15.8750	16.1250	.2500
38.	Underarm length	8.2500	.0625	8.3125	8.3750	.0625
39.	Waist width	6.0000	.5625	6.5625	7.0000	.4375
40.	Armhole curve	8.5000	.5000	9.0000	9.3125	.3125
41.	Full length	16.9375	.4375	17.3750	17.6875	.3125
42.	Neck curve	2.6250	.0625	2.6875	2.8125	.1250
43.	Neck curve depth	.4375	- .0625	.3750	.3750	.0000
44.	Armhole curve depth	.5625	- .0625	.5000	.6250	.1250
45.	Armhole depth	7.5000	.2500	7.7500	7.9375	.1875
46.	Armhole width	1.2500	.3125	1.5625	1.7500	.1875
47.	Shoulder dart	7.5°	.0°	7.5°	8.5°	1.0°
48.	Neck dart	--**	--	--	--	--
49.	Waist dart	9.0°	.0°	9.0°	9.0°	.0°

## APPENDIX TABLE IX (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICEBlouse Back

		Size				
		14	16	18	20	
Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
16.2500	.4375	16.6875	17.0000	.3125	17.3750	.3750
2.4375	.0625	2.5000	2.6875	.1875	2.7500	.0625
.7500	- .0625	.6875	.6875	.0000	.7500	.0625
7.7500	.0625	7.8125	8.0625	.2500	8.3125	.2500
17.1250	- .1250	17.0000	17.8125	.8125	17.8125	.0000
1.8125	.1250	1.9375	2.0000	.0625	2.0000	.0000
5.4375	.1250	5.5625	5.6250	.0625	5.7500	.1250
8.0625	.1250	8.1875	8.0625	- .1250	8.7500	.6875
7.5000	.2500	7.7500	8.0000	.2500	8.2500	.2500
8.7500	.5000	9.2500	9.6875	.4375	10.2500	.5625
9.1250	.6875	9.8125	10.1250	.3125	10.7500	.6250
15.5625	.3125	15.8750	16.1250	.2500	16.4375	.3125
8.2500	.0625	8.3125	8.3750	.0625	8.3750	.0000
6.0000	.5625	6.5625	7.0000	.4375	7.5000	.5000
8.5000	.5000	9.0000	9.3125	.3125	9.7500	.4375
16.9375	.4375	17.3750	17.6875	.3125	18.1250	.4375
2.6250	.0625	2.6875	2.8125	.1250	2.9375	.1250
.4375	- .0625	.3750	.3750	.0000	.3750	.0000
.5625	- .0625	.5000	.6250	.1250	.6250	.0000
7.5000	.2500	7.7500	7.9375	.1875	8.1875	.2500
1.2500	.3125	1.5625	1.7500	.1875	2.0000	.2500
7.5°	.0°	7.5°	8.5°	1.0°	8.5°	.0°
--**	--	--	--	--	--	--
9.0°	.0°	9.0°	9.0°	.0°	9.5°	1.0°

## APPENDIX TABLE IX (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS -  
MEDIUM PRICESleeve

Number	Name of Measurement	Size				
		14	16	18		
		Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion
50.	Bicep	13.2500	.6250	13.8750	14.3750	.500
51.	Overarm length	24.7500	.3750	25.1250	25.5000	.375
52.	Sleeve cap height	6.4375	.2500	6.6875	6.9375	.250
53.	Overarm to elbow	14.6250	.2500	14.8750	15.2500	.375
54.	Overarm length	17.7500	.1875	17.9375	18.1875	.250
55.	Overarm length from bicep to elbow	8.1875	.0625	8.2500	8.3750	.125
56.	Elbow girth	11.8750	.4375	12.3125	12.6875	.375
57.	Wrist girth	7.1875	.1875	7.3750	7.7500	.125
58.	Cap curve	19.3750	.9375	20.3125	21.0000	.687

## APPENDIX TABLE IX (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND A PATTERNS - STYLE 3  
MEDIUM PRICESleeve

Size							
14		16		18		20	
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
13.2500	.6250	13.8750	14.3750	.5000	14.8750	.5000	
24.7500	.3750	25.1250	25.5000	.3750	25.8750	.3750	
6.4375	.2500	6.6875	6.9375	.2500	7.0625	.1250	
14.6250	.2500	14.8750	15.2500	.3750	15.4375	.1875	
17.7500	.1875	17.9375	18.1875	.2500	18.3750	.1875	
8.1875	.0625	8.2500	8.3750	.1250	8.3750	.0000	
11.8750	.4375	12.3125	12.6875	.3750	13.0625	.3750	
7.1875	.1875	7.3750	7.7500	.1250	8.0000	.2500	
19.3750	.9375	20.3125	21.0000	.6875	21.6875	.6875	



## APPENDIX TABLE X

MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS - S  
MEDIUM PRICEBlouse Front

Number	Name of Measurement	Size				
		14		16		18
		Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*
1.	Center front length	14.2500	.5000	14.7500	15.2500	.5000
2.	Neck width	2.6250	.1250	2.7500	2.8750	.1250
3.	Neck depth	2.7500	.0000	2.7500	2.9375	.1875
4.	Across shoulder	7.5625	.3125	7.8750	8.1250	.2500
5.	Slope of shoulder	17.5625	.6875	18.2500	18.8125	.5625
6.	Drop of shoulder	1.1250	.0000	1.1250	1.0625	-.0625
7.	Shoulder seam	4.9375	.1250	5.0625	5.1875	.1250
8.	Across chest	7.0000	.4375	7.4375	7.5625	.1250
9.	Bust width	9.6875	.6875	10.3750	11.0000	.6250
10.	Upper bust width	9.6875	.5625	10.2500	10.8750	.6250
11.	Full side length	15.3750	.4375	15.8125	16.1875	.3750
12.	Underarm length	8.0000	.0625	8.0625	8.1875	.1250
13.	Waist width	7.1875	.4375	7.6250	8.1250	.5000
14.	Armhole curve	8.5625	.3125	8.8750	9.5625	.6875
15.	Height of bust	7.1250	.1875	7.3125	7.6250	.3125
16.	Armhole curve depth	1.0625	.0625	1.1250	1.1875	.0625
17.	Neck curve depth	.6250	.0000	.6250	.6250	.0000
18.	Bust point width	3.8750	.2500	4.1250	4.1875	.0625
19.	Full length	17.0000	.5000	17.5000	18.1875	.6875
20.	Neck curve	4.1875	.1250	4.3125	4.5625	.2500
21.	Dart point to bust point	--**	--	--	--	--
22.	Armhole depth	6.9375	.1875	7.1250	7.4375	.3125
23.	Armhole width	2.2500	.3125	2.5625	3.0000	.4375
24.	Shoulder to waist	17.3750	.3750	17.7500	18.5000	.7500
25.	Waist dart	22.5°	.0°	22.5°	25.5°	3.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, in degrees.

-Indicates measurement of size larger pattern was less than size smaller pattern.

\*\*No measurement was made on that pattern.

APPENDIX TABLE X

 MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
 MEDIUM PRICE
Blouse Front

	Size						
	14	Variation*	16	18	Variation*	20	
	Measurement*		Measurement*	Measurement*	Variation*	Measurement*	Variation*
Length	14.2500	.5000	14.7500	15.2500	.5000	15.3125	.0625
	2.6250	.1250	2.7500	2.8750	.1250	3.0625	.1875
	2.7500	.0000	2.7500	2.9375	.1875	3.0000	.0625
	7.5625	.3125	7.8750	8.1250	.2500	8.4375	.3125
	17.5625	.6875	18.2500	18.8125	.5625	19.0000	.1875
	1.1250	.0000	1.1250	1.0625	-.0625	1.1875	.1250
	4.9375	.1250	5.0625	5.1875	.1250	5.3750	.3750
	7.0000	.4375	7.4375	7.5625	.1250	7.8750	.3125
	9.6875	.6875	10.3750	11.0000	.6250	11.3750	.3750
	9.6875	.5625	10.2500	10.8750	.6250	11.2500	.3750
	15.3750	.4375	15.8125	16.1875	.3750	16.3750	.3750
	8.0000	.0625	8.0625	8.1875	.1250	8.1250	-.0625
	7.1875	.4375	7.6250	8.1250	.5000	8.5000	.3750
	8.5625	.3125	8.8750	9.5625	.6875	9.9375	.3750
	7.1250	.1875	7.3125	7.6250	.3125	7.6250	.0000
Width	1.0625	.0625	1.1250	1.1875	.0625	1.2500	.0625
	.6250	.0000	.6250	.6250	.0000	.5000	-.1250
	3.8750	.2500	4.1250	4.1875	.0625	3.8125	-.7500
	17.0000	.5000	17.5000	18.1875	.6875	18.3125	.1250
	4.1875	.1250	4.3125	4.5625	.2500	4.8125	.5625
Waist	--**	--	--	--	--	--	--
	6.9375	.1875	7.1250	7.4375	.3125	7.6250	.3125
	2.2500	.3125	2.5625	3.0000	.4375	3.0000	.0000
	17.3750	.3750	17.7500	18.5000	.7500	18.6250	.1250
	22.5°	.0°	22.5°	25.5°	3.0°	22.5°	- 3.0°

Given in inches except for variations 25, 47, 48, and 49, which are given in

Measurement of size larger pattern was less than size smaller pattern.

As made on that pattern.

## APPENDIX TABLE X (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS  
MEDIUM PRICEBlouse Back

Number	Name of Measurement	Size				
		14		16		18
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- atio
26.	Center back length	16.2500	.1875	16.4375	17.0000	.5625
27.	Neck width	3.3750	-.6875	2.6875	3.5000	.8125
28.	Neck depth	.8125	.0000	.8125	.8125	.0000
29.	Across shoulder	8.3750	-.8125	7.5625	8.6875	1.1250
30.	Slope of shoulder	17.7500	-1.0000	16.7500	18.1250	1.3750
31.	Drop of shoulder	1.6250	.1250	1.7500	1.7500	.0000
32.	Shoulder seam	5.0000	.1250	5.1250	5.3750	.2500
33.	Shoulder draft width	8.3750	-.4375	7.9375	9.0625	1.1250
34.	Across chest	7.9375	-.5000	7.4375	8.4375	1.0000
35.	Bust width	9.0625	-.3125	8.7500	10.1250	1.3750
36.	Upper bust width	9.4375	-.3125	9.1250	10.5625	1.4375
37.	Full side length	15.9375	.1875	16.1250	16.5625	.4375
38.	Underarm length	8.0000	.0625	8.0625	8.2500	.1875
39.	Waist width	6.8125	-.3750	6.4375	7.8125	1.3750
40.	Armhole curve	8.8125	.1250	8.9375	9.5000	.5625
41.	Full length	17.0625	.1875	17.2500	17.8125	.5625
42.	Neck curve	3.6250	-.6875	2.9375	3.7500	.8125
43.	Neck curve depth	.5000	.0000	.5000	.5000	.0000
44.	Armhole curve depth	.6875	.1250	.8125	.8750	.0625
45.	Armhole depth	8.0625	.0625	8.1250	8.3750	.2500
46.	Armhole width	.7500	.5000	1.2500	1.5625	.3125
47.	Shoulder dart	7.0°	-.5°	6.5°	6.5°	.0°
48.	Neck dart	--**	--	--	--	--
49.	Waist dart	7.5°	.0°	7.5°	7.0°	-.5°

APPENDIX TABLE X (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

	Size						
	14		16		18		20
	Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
th	16.2500	.1875	16.4375	17.0000	.5625	17.2500	.2500
	3.3750	-.6875	2.6875	3.5000	.8125	3.6875	.1875
	.8125	.0000	.8125	.8125	.0000	.8750	.0625
	8.3750	-.8125	7.5625	8.6875	1.1250	8.8125	.1250
r	17.7500	-1.0000	16.7500	18.1250	1.3750	18.3125	.1875
	1.6250	.1250	1.7500	1.7500	.0000	2.0000	.2500
	5.0000	.1250	5.1250	5.3750	.2500	5.3125	-.0625
	8.3750	-.4375	7.9375	9.0625	1.1250	9.1250	.0625
	7.9375	-.5000	7.4375	8.4375	1.0000	8.6875	.2500
	9.0625	-.3125	8.7500	10.1250	1.3750	10.6250	.5000
	9.4375	-.3125	9.1250	10.5625	1.4375	10.8750	.3125
	15.9375	.1875	16.1250	16.5625	.4375	16.7500	.1875
	8.0000	.0625	8.0625	8.2500	.1875	8.1875	-.0625
	6.8125	-.3750	6.4375	7.8125	1.3750	8.1875	-.3750
	8.8125	.1250	8.9375	9.5000	.5625	9.8750	.3750
	17.0625	.1875	17.2500	17.8125	.5625	18.1875	.3750
	3.6250	-.6875	2.9375	3.7500	.8125	3.9375	.1875
	.5000	.0000	.5000	.5000	.0000	.5000	.0000
pth	.6875	.1250	.8125	.8750	.0625	.8750	.0000
	8.0625	.0625	8.1250	8.3750	.2500	8.6875	.3125
	.7500	.5000	1.2500	1.5625	.3125	1.8750	.3125
	7.0°	-.5°	6.5°	6.5°	.0°	6.5°	.0°
	--**	--	--	--	--	--	--
	7.5°	.0°	7.5°	7.0°	-.5°	7.5°	.5°

## APPENDIX TABLE X (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS -  
MEDIUM PRICESleeve

Number	Name of Measurement	Size				
		14	16	18		
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*
50.	Bicep	13.3125	.4375	13.7500	14.3750	.6250
51.	Overarm length	--**	--	--	--	--
52.	Sleeve cap height	6.2500	.1250	6.3750	6.6250	.2500
53.	Overarm to elbow	--	--	--	--	--
54.	Overarm length	--	--	--	--	--
55.	Overarm length from bicep to elbow	--	--	--	--	--
56.	Elbow girth	--	--	--	--	--
57.	Wrist girth	--	--	--	--	--
58.	Cap curve	18.9375	.5000	19.4375	20.3750	.9375

## APPENDIX TABLE X (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND B PATTERNS - STYLE 3  
MEDIUM PRICESleeve

		Size				
		14	16	18	20	
Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*
13.3125	.4375	13.7500	14.3750	.6250	15.0000	.6250
--**	--	--	--	--	--	--
6.2500	.1250	6.3750	6.6250	.2500	7.0000	.3750
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
18.9375	.5000	19.4375	20.3750	.9375	21.1875	.8125

APPENDIX TABLE XI

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Size				
		14		16		18
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- tio
1.	Center front length	14.6250	.2500	14.8750	15.1250	.25
2.	Neck width	2.5625	- .0625	2.5000	2.7500	.25
3.	Neck depth	2.7500	.3125	2.8125	2.8750	.06
4.	Across shoulder	7.5000	.1875	7.6875	8.0000	.31
5.	Slope of shoulder	17.5000	.5625	18.0625	18.3750	.31
6.	Drop of shoulder	1.5000	- .1875	1.3125	1.5000	.18
7.	Shoulder seam	5.1875	.0625	5.2500	5.4375	.18
8.	Across chest	6.1250	.6875	6.8125	7.2500	.43
9.	Bust width	9.5625	.5625	10.1250	10.5000	.37
10.	Upper bust width	9.4375	.5000	9.9375	10.4375	.50
11.	Full side length	15.2500	.4375	15.6875	15.7500	.06
12.	Underarm length	8.0625	.0625	8.1250	8.1250	.00
13.	Waist width	7.2500	.3750	7.6250	8.1875	.56
14.	Armhole curve	8.5625	.5000	9.0625	9.3125	.12
15.	Height of bust	7.3125	.1250	7.4375	7.5625	.12
16.	Armhole curve depth	1.0625	.0625	1.1250	1.0000	.12
17.	Neck curve depth	.5625	.0000	.5625	.6250	.06
18.	Bust point width	3.4975	.3750	4.3125	3.4375	.12
19.	Full length	17.3125	.3750	17.6875	18.1250	.43
20.	Neck curve	4.1250	.0625	4.1875	4.3750	.18
21.	Dart point to bust point	--**	--	--	--	--
22.	Armhole depth	6.6250	.1875	6.8125	7.0000	.18
23.	Armhole width	2.0000	.3750	2.3750	2.5000	.12
24.	Shoulder to waist	17.6250	.6250	18.2500	18.1875	.06
25.	Waist dart	22.5°	- 1.0°	21.5°	21.0°	- .5°

\*Variations are given in inches except for variations 25, 47, 48, and 49, degrees.

-Indicates measurement of size larger pattern was less than size smaller

\*\*No measurement was made on that pattern.

## APPENDIX TABLE XI

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICEBlouse Front

	Size						
	14	16	18	20			
	Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
th	14.6250	.2500	14.8750	15.1250	.2500	15.5000	.3750
	2.5625	- .0625	2.5000	2.7500	.2500	2.8750	.1250
	2.7500	.3125	2.8125	2.8750	.0625	2.8125	- .0625
	7.5000	.1875	7.6875	8.0000	.3125	8.2500	.2500
	17.5000	.5625	18.0625	18.3750	.3125	18.6250	.2500
	1.5000	- .1875	1.3125	1.5000	.1875	1.5625	.0625
	5.1875	.0625	5.2500	5.4375	.1875	5.5000	.0625
	6.1250	.6875	6.8125	7.2500	.4375	7.5000	.2500
	9.5625	.5625	10.1250	10.5000	.3750	10.9375	.4375
	9.4375	.5000	9.9375	10.4375	.5000	10.8750	.4375
	15.2500	.4375	15.6875	15.7500	.0625	15.7500	.0000
	8.0625	.0625	8.1250	8.1250	.0000	8.1250	.0000
	7.2500	.3750	7.6250	8.1875	.5625	8.6875	.5000
	8.5625	.5000	9.0625	9.3125	.1250	9.5625	.2500
	7.3125	.1250	7.4375	7.5625	.1250	7.8125	.2500
th	1.0625	.0625	1.1250	1.0000	.1250	1.0625	.0625
	.5625	.0000	.5625	.6250	.0625	.6875	.0625
	3.4975	.3750	4.3125	3.4375	.1250	2.2500	- 1.1875
	17.3125	.3750	17.6875	18.1250	.4375	18.3750	.2500
	4.1250	.0625	4.1875	4.3750	.1875	4.4375	.0625
	--**	--	--	--	--	--	--
	6.6250	.1875	6.8125	7.0000	.1875	7.0625	.0625
	2.0000	.3750	2.3750	2.5000	.1250	2.6875	.1875
	17.6250	.6250	18.2500	18.1875	.0625	18.3750	.1875
	22.5°	- 1.0°	21.5°	21.0°	- .5°	20.0°	- 1.0°

en in inches except for variations 25, 47, 48, and 49, which are given in

ment of size larger pattern was less than size smaller pattern.

s made on that pattern.



APPENDIX TABLE XI (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS -  
MEDIUM PRICE

Blouse Back

Number	Name of Measurement	Size				
		14	16	18	20	22
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- atio n*
26.	Center back length	16.0000	.3125	16.3125	16.5000	.1875
27.	Neck width	3.1250	.0000	3.1250	3.3125	.1875
28.	Neck depth	.6250	.0625	.6875	1.7500	1.0625
29.	Across shoulder	7.5625	.1250	7.6875	8.0000	.3125
30.	Slope of shoulder	16.8750	.0000	16.8750	17.3125	.4375
31.	Drop of shoulder	1.7500	.0000	1.7500	1.8125	.0625
32.	Shoulder seam	5.1250	.1250	5.2500	5.3750	.1250
33.	Shoulder draft width	7.9375	.1250	8.0625	8.0625	.0000
34.	Across chest	7.2500	.1875	7.4375	7.8125	.3750
35.	Bust width	8.4375	.3750	8.8125	9.4375	.6250
36.	Upper bust width	8.8125	.3750	9.1875	9.7500	.5625
37.	Full side length	15.5000	.3750	15.8750	15.9375	.0625
38.	Underarm length	8.0000	.1250	8.1250	8.0625	-.0625
39.	Waist width	6.0000	.2500	6.2500	6.8125	.5625
40.	Armhole curve	8.5625	.3750	8.9375	9.2500	.3125
41.	Full length	16.1250	.8125	16.9375	17.2500	.3125
42.	Neck curve	2.7500	.0625	2.8125	3.0625	.2500
43.	Neck curve depth	.4375	.0625	.5000	.5000	.0000
44.	Armhole curve depth	.6250	.0625	.6875	.6250	-.0625
45.	Armhole depth	7.6250	.3125	7.9375	8.1250	.1875
46.	Armhole width	1.0000	.2500	1.2500	1.5000	.2500
47.	Shoulder dart	--**	--	--	--	--
48.	Neck dart	6.5°	.5°	7.0°	6.0°	- 1.0°
49.	Waist dart	6.5°	1.5°	8.0°	7.0°	- 1.0°

## APPENDIX TABLE XI (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICEBlouse Back

Size						
14		16		18		20
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*
16.0000	.3125	16.3125	16.5000	.1875	16.7500	.2500
3.1250	.0000	3.1250	3.3125	.1875	3.3750	.0625
.6250	.0625	.6875	1.7500	1.0625	.6250	- 1.1250
7.5625	.1250	7.6875	8.0000	.3125	8.1875	.1875
16.8750	.0000	16.8750	17.3125	.4375	17.4375	.1250
1.7500	.0000	1.7500	1.8125	.0625	1.8125	.0000
5.1250	.1250	5.2500	5.3750	.1250	5.5000	.1250
7.9375	.1250	8.0625	8.0625	.0000	8.5625	.5000
7.2500	.1875	7.4375	7.8125	.3750	8.0000	.1875
8.4375	.3750	8.8125	9.4375	.6250	9.9375	.5000
8.8125	.3750	9.1875	9.7500	.5625	10.3125	.5625
15.5000	.3750	15.8750	15.9375	.0625	16.1875	.2500
8.0000	.1250	8.1250	8.0625	- .0625	8.1250	.0625
6.0000	.2500	6.2500	6.8125	.5625	6.6875	.1250
8.5625	.3750	8.9375	9.2500	.3125	9.6875	.4375
16.1250	.8125	16.9375	17.2500	.3125	17.4375	.1875
2.7500	.0625	2.8125	3.0625	.2500	3.0625	.0000
.4375	.0625	.5000	.5000	.0000	.4375	- .0625
.6250	.0625	.6875	.6250	- .0625	.6250	.0000
7.6250	.3125	7.9375	8.1250	.1875	8.3125	.1875
1.0000	.2500	1.2500	1.5000	.2500	1.8125	.3125
--**	--	--	--	--	--	--
6.5°	.5°	7.0°	6.0°	- 1.0°	6.5°	.5°
6.5°	1.5°	8.0°	7.0°	- 1.0°	7.0°	.0°

APPENDIX TABLE XI (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
MEDIUM PRICE

Blouse Back

Size							
14		16		18		20	
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
16.0000	.3125	16.3125	16.5000	.1875	16.7500	.2500	
3.1250	.0000	3.1250	3.3125	.1875	3.3750	.0625	
.6250	.0625	.6875	1.7500	1.0625	.6250	- 1.1250	
7.5625	.1250	7.6875	8.0000	.3125	8.1875	.1875	
16.8750	.0000	16.8750	17.3125	.4375	17.4375	.1250	
1.7500	.0000	1.7500	1.8125	.0625	1.8125	.0000	
5.1250	.1250	5.2500	5.3750	.1250	5.5000	.1250	
7.9375	.1250	8.0625	8.0625	.0000	8.5625	.5000	
7.2500	.1875	7.4375	7.8125	.3750	8.0000	.1875	
8.4375	.3750	8.8125	9.4375	.6250	9.9375	.5000	
8.8125	.3750	9.1875	9.7500	.5625	10.3125	.5625	
15.5000	.3750	15.8750	15.9375	.0625	16.1875	.2500	
8.0000	.1250	8.1250	8.0625	- .0625	8.1250	.0625	
6.0000	.2500	6.2500	6.8125	.5625	6.6875	.1250	
8.5625	.3750	8.9375	9.2500	.3125	9.6875	.4375	
16.1250	.8125	16.9375	17.2500	.3125	17.4375	.1875	
2.7500	.0625	2.8125	3.0625	.2500	3.0625	.0000	
.4375	.0625	.5000	.5000	.0000	.4375	- .0625	
.6250	.0625	.6875	.6250	- .0625	.6250	.0000	
7.6250	.3125	7.9375	8.1250	.1875	8.3125	.1875	
1.0000	.2500	1.2500	1.5000	.2500	1.8125	.3125	
--**	--	--	--	--	--	--	
6.5°	.5°	7.0°	6.0°	- 1.0°	6.5°	.5°	
6.5°	1.5°	8.0°	7.0°	- 1.0°	7.0°	.0°	

## APPENDIX TABLE XI (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS  
MEDIUM PRICESleeve

Number	Name of Measurement	Size				Va t
		14 Measure- ment*	Varia- tion*	16 Measure- ment*	18 Measure- ment*	
50.	Bicep	13.2500	.7500	14.0000	14.6250	.
51.	Overarm length	24.0000	.4375	24.4375	24.6875	.
52.	Sleeve cap height	6.6875	.1875	6.8750	7.0625	.
53.	Overarm to elbow	14.3125	.3125	14.6250	14.9375	.
54.	Overarm length	17.1250	.1875	17.3125	17.5000	.
55.	Overarm length from bicep to elbow	7.6875	.2500	7.9375	8.0000	.
56.	Elbow girth	11.2500	.5000	11.7500	12.1875	1.
57.	Wrist girth	7.6875	.2500	7.9375	8.2500	.
58.	Cap curve	19.5000	.8125	20.3125	21.2500	.

## APPENDIX TABLE XI (Continued)

 MEASUREMENTS AND VARIATIONS IN GRADING BRAND C PATTERNS - STYLE 3  
 MEDIUM PRICE
Sleeve

Size							
14		16		18		20	
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
13.2500	.7500	14.0000	14.6250	.6250	15.2500	.6250	
24.0000	.4375	24.4375	24.6875	.7500	24.8750	.1875	
6.6875	.1875	6.8750	7.0625	.1875	7.3125	.2500	
14.3125	.3125	14.6250	14.9375	.3125	15.3750	.4375	
17.1250	.1875	17.3125	17.5000	.1875	17.5625	.0625	
7.6875	.2500	7.9375	8.0000	.0625	8.1875	.1875	
11.2500	.5000	11.7500	12.1875	1.4375	12.6250	.4375	
7.6875	.2500	7.9375	8.2500	.3125	8.5625	.3125	
19.5000	.8125	20.3125	21.2500	.9375	21.9375	.6875	

APPENDIX TABLE XII

MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS -  
MEDIUM PRICE

Blouse Front

Number	Name of Measurement	Size				
		14		16		18
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*
1.	Center front length	15.0000	.2500	15.2500	15.5000	.2500
2.	Neck width	2.5625	.1250	2.6875	2.7500	.0625
3.	Neck depth	2.7500	.1250	2.8750	2.8125	-.0625
4.	Across shoulder	7.5625	1.3750	8.9375	8.0625	-.8750
5.	Slope of shoulder	17.8750	.5625	18.4375	18.6875	.2500
6.	Drop of shoulder	1.5000	-.0625	1.4375	1.3750	-.0625
7.	Shoulder seam	5.1250	.1875	5.3125	5.3125	.0000
8.	Across chest	6.9375	.2500	7.1875	7.3125	.1250
9.	Bust width	10.0000	.6875	10.6875	10.8125	.1250
10.	Upper bust width	9.8125	.5625	10.3750	10.6875	.3750
11.	Full side length	15.0625	.1875	14.8750	15.8750	1.0000
12.	Underarm length	7.8750	-.6875	7.1875	8.2500	1.0625
13.	Waist width	6.8750	2.8125	9.6875	7.7500	-1.9375
14.	Armhole curve	8.5000	.5000	9.0000	9.2500	.2500
15.	Height of bust	7.5000	.1250	7.6250	7.7500	.1250
16.	Armhole curve depth	1.1875	.2500	1.4375	1.1875	-.2500
17.	Neck curve depth	.5625	.0000	.5625	.5625	.0000
18.	Bust point width	3.7500	.1250	3.8750	4.0000	.1250
19.	Full length	17.7500	.3750	18.1250	18.2500	.1250
20.	Neck curve	4.1875	.1250	4.3125	4.5000	.1875
21.	Dart point to bust point	2.0000	.0000	2.0000	1.8750	-.1250
22.	Armhole depth	6.7500	.1250	6.8750	6.9375	.0625
23.	Armhole width	2.3750	.1875	2.5625	2.8125	.2500
24.	Shoulder to waist	18.0000	.3750	18.3750	18.5000	.1250
25.	Waist dart	27.0°	8.5°	35.5°	26.5°	-9.0°

\*Variations are given in inches except for variations 25, 47, 48, and 49, degrees.

-Indicates measurement of size larger pattern was less than size smaller

\*\*No measurement was made on that pattern.

## APPENDIX TABLE XII

MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICEBlouse Front

	Size							
	14		16		18		20	
	Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- ation*	Measure- ment*	Vari- ation*	
length	15.0000	.2500	15.2500	15.5000	.2500	15.5625	.0625	
	2.5625	.1250	2.6875	2.7500	.0625	2.9375	.1875	
r	2.7500	.1250	2.8750	2.8125	- .0625	2.8750	.0625	
	7.5625	1.3750	8.9375	8.0625	- .8750	8.1250	.0625	
der	17.8750	.5625	18.4375	18.6875	.2500	18.5625	.1250	
	1.5000	- .0625	1.4375	1.3750	- .0625	1.4375	.0625	
er	5.1250	.1875	5.3125	5.3125	.0000	5.2500	.0625	
	6.9375	.2500	7.1875	7.3125	.1250	7.5000	.1875	
th	10.0000	.6875	10.6875	10.8125	.1250	11.3125	.5000	
	9.8125	.5625	10.3750	10.6875	.3750	11.1875	.5000	
th	15.0625	.1875	14.8750	15.8750	1.0000	16.0625	.1875	
	7.8750	- .6875	7.1875	8.2500	1.0625	8.3125	.0625	
h	6.8750	2.8125	9.6875	7.7500	- 1.9375	8.3125	.5625	
	8.5000	.5000	9.0000	9.2500	.2500	9.5000	.2500	
depth	7.5000	.1250	7.6250	7.7500	.1250	7.7500	.0000	
	1.1875	.2500	1.4375	1.1875	- .2500	1.2500	.0625	
th	.5625	.0000	.5625	.5625	.0000	.6875	.1250	
	3.7500	.1250	3.8750	4.0000	.1250	4.1250	.1250	
th	17.7500	.3750	18.1250	18.2500	.1250	18.4375	.1875	
	4.1875	.1250	4.3125	4.5000	.1875	4.5625	.0625	
bust	2.0000	.0000	2.0000	1.8750	- .1250	1.8750	.0000	
	6.7500	.1250	6.8750	6.9375	.0625	7.0000	.0625	
ist	2.3750	.1875	2.5625	2.8125	.2500	3.1875	.3750	
	18.0000	.3750	18.3750	18.5000	.1250	18.6875	.1875	
	27.0°	8.5°	35.5°	26.5°	- 9.0°	25.5°	- 1.0°	

given in inches except for variations 25, 47, 48, and 49, which are given in

urement of size larger pattern was less than size smaller pattern.

t was made on that pattern.

## APPENDIX TABLE XII (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS -  
MEDIUM PRICEBlouse Back

Number	Name of Measurement	Size				
		14	16	18		
		Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion
26.	Center back length	16.2500	.3750	16.6250	17.0000	.3750
27.	Neck width	3.1875	.1250	3.3125	3.4375	.1250
28.	Neck depth	.4375	.0000	.4375	.3750	-.0625
29.	Across shoulder	7.8125	.4375	8.2500	8.3750	.1250
30.	Slope of shoulder	16.6875	.0625	16.7500	17.1250	.3750
31.	Drop of shoulder	2.1250	.0000	2.1250	2.1875	.0625
32.	Shoulder seam	5.3125	.1875	5.5000	5.5000	.0000
33.	Shoulder draft width	7.8125	.5625	8.3750	8.5625	.1875
34.	Across chest	7.3125	.3750	7.6875	7.9375	.2500
35.	Bust width	8.6875	.5000	9.1875	9.5625	.3750
36.	Upper bust width	9.0000	.5000	9.5000	10.0000	.5000
37.	Full side length	15.1250	.3125	15.4375	15.8750	.4375
38.	Underarm length	8.0000	.1875	8.1875	8.3125	.1250
39.	Waist width	6.3750	.5000	6.8750	7.2500	.3750
40.	Armhole curve	8.3125	.3750	8.6875	8.9375	.2500
41.	Full length	16.7500	.3125	17.0625	17.3750	.3125
42.	Neck curve	2.8750	.1875	3.0625	3.1875	.1250
43.	Neck curve depth	.3125	.0000	.3125	.3125	.0000
44.	Armhole curve depth	.5625	-.0625	.5000	.6250	.1250
45.	Armhole depth	7.1875	.2500	7.4375	7.6250	.1875
46.	Armhole width	1.1250	.1250	1.2500	1.5000	.2500
47.	Shoulder dart	--**	--	--	--	--
48.	Neck dart	4.5°	.5°	5.0°	4.0°	- 1.0°
49.	Waist dart	5.5°	.5°	6.0°	6.0°	.0°



APPENDIX TABLE XII (Continued)

 MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
 MEDIUM PRICE
Blouse Back

		Size				
		14	16	18	20	
Measure-	Vari-	Measure-	Measure-	Vari-	Measure-	Vari-
ment*	tion*	ment*	ment*	tion*	ment*	tion*
16.2500	.3750	16.6250	17.0000	.3750	17.1250	.1250
3.1875	.1250	3.3125	3.4375	.1250	3.5000	.0625
.4375	.0000	.4375	.3750	.0625	.4375	.0625
7.8125	.4375	8.2500	8.3750	.1250	8.5000	.1250
16.6875	.0625	16.7500	17.1250	.3750	17.4375	.3125
2.1250	.0000	2.1250	2.1875	.0625	2.1875	.0000
5.3125	.1875	5.5000	5.5000	.0000	5.5625	.0625
7.8125	.5625	8.3750	8.5625	.1875	8.6875	.1250
7.3125	.3750	7.6875	7.9375	.2500	8.0625	.1250
8.6875	.5000	9.1875	9.5625	.3750	10.2500	.6875
9.0000	.5000	9.5000	10.0000	.5000	10.4375	.4375
15.1250	.3125	15.4375	15.8750	.4375	16.1250	.2500
8.0000	.1875	8.1875	8.3125	.1250	8.4375	.1250
6.3750	.5000	6.8750	7.2500	.3750	7.7500	.5000
8.3125	.3750	8.6875	8.9375	.2500	9.2500	.3125
16.7500	.3125	17.0625	17.3750	.3125	17.6250	.2500
2.8750	.1875	3.0625	3.1875	.1250	3.2500	.0625
.3125	.0000	.3125	.3125	.0000	.3125	.0000
.5625	.0625	.5000	.6250	.1250	.6250	.0000
7.1875	.2500	7.4375	7.6250	.1875	7.7500	.1250
1.1250	.1250	1.2500	1.5000	.2500	1.8125	.3125
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4.5°	.5°	5.0°	4.0°	1.0°	4.5°	.5°
5.5°	.5°	6.0°	6.0°	.0°	6.0°	.0°

## APPENDIX TABLE XII (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS  
MEDIUM PRICESleeve

Number	Name of Measurement	Size				
		14	16	18		
		Measure- ment*	Vari- ation*	Measure- ment*	Measure- ment*	Vari- atio
50.	Bicep	13.2500	.4375	13.6875	14.1250	.4375
51.	Overarm length	23.5000	.5000	24.0000	24.3125	.3125
52.	Sleeve cap height	6.3125	.1875	6.5000	6.6250	.1250
53.	Overarm to elbow	14.0000	.2500	14.2500	14.5625	.3125
54.	Overarm length	16.7500	.3750	17.1250	17.2500	.1250
55.	Overarm length from bicep to elbow	7.7500	.1250	7.8750	8.0000	.1250
56.	Elbow girth	11.0000	.4375	11.4375	11.6875	.2500
57.	Wrist girth	8.1875	.3125	8.5000	8.7500	.2500
58.	Cap curve	19.1250	.7500	19.8750	20.3125	.4375

APPENDIX TABLE XII (Continued)

MEASUREMENTS AND VARIATIONS IN GRADING BRAND H PATTERNS - STYLE 3  
MEDIUM PRICE

Sleeve

Size							
14		16		18		20	
Measure- ment*	Varia- tion*	Measure- ment*	Measure- ment*	Varia- tion*	Measure- ment*	Varia- tion*	
13.2500	.4375	13.6875	14.1250	.4375	14.6250	.5000	
23.5000	.5000	24.0000	24.3125	.3125	24.6875	.3750	
6.3125	.1875	6.5000	6.6250	.1250	6.7500	.1250	
14.0000	.2500	14.2500	14.5625	.3125	14.6875	.1250	
16.7500	.3750	17.1250	17.2500	.1250	17.5000	.2500	
7.7500	.1250	7.8750	8.0000	.1250	8.0625	.0625	
11.0000	.4375	11.4375	11.6875	.2500	12.0625	.3750	
8.1875	.3125	8.5000	8.7500	.2500	9.0000	.2500	
19.1250	.7500	19.8750	20.3125	.4375	21.000	.6875	

## APPENDIX TABLE XIII

 COMMERCIAL STANDARD CSL3-44  
 FOR MEASUREMENTS OF MISSES' DRESS PATTERNS<sup>1</sup>

Size (number)	12	14	16	18	20
Bust. . . . .	30	32	34	36	38
Waist . . . . .	25	26½	28	30	32
Hip . . . . .	33	35	37	39	41

1. United States Department of Commerce, National Bureau of Standards. Dress Patterns, Fourth edition. Commercial Standard CSL3-44. Washington, D. C.: United States Government Printing Office, 1944. p. 1.