

**A HAND ANTHROPOMETRIC SURVEY OF
BRITISH WORKERS**

by

Paul Kember M.Sc.
Les Ainsworth PhD.
and Paul Brightman



**Ergonomics Laboratory
Cranfield Institute of Technology**

December 1981

CONTENTS

	Page
Equipment	1
Computer System	5
Samples	7
Method	8
Results	15
Female	F1 - F45
Male	M1 - M45
Correlations:	
Female	F46 - F54
Male	M46 - M54
Summary Statistics:	
Female	F54 - F55
Male	M54 - M55
Bibliography	
Appendix A - Percentiles	
Appendix B - Participating Organisations.	

EQUIPMENT

In order to take the measurements of the different hand and finger dimensions which were required for this survey, a special rig was designed and built. The measurements taken on this rig were stored in a micro-computer system on floppy discs. It is therefore convenient to consider the measuring rig and the computer system separately.

MEASURING RIG

The measuring rig (anthropometer) which was purpose-built for this survey, is illustrated in Figs. I and II. The measurements all depended upon an accurate linear potentiometer (Penny & Giles, LCPX 100), which could translate measurements into voltages for subsequent computer storage. This potentiometer was supplied with a steady input voltage, and the system was calibrated in such a way that a movement of 0.5mm anywhere along its stroke, would lead to a voltage change of 0.02 volts. The actual stroke of the potentiometer was 100mm; but in order to avoid inaccuracies at the ends of the potentiometer, physical stops were placed at either end which reduced the movement to 96mm. The potentiometer was mounted parallel to the long axis of the measuring rig, on a set of linear bearings, so that it could be moved across the measuring table, to take measurements of the long axis at various points. The far end of the potentiometer was attached to a "measuring paddle" (see Figs. I, II and III), which moved in and out with the potentiometer. The "measuring paddle" could be rotated through ninety degrees, so that it was either in its normal position (Fig. I), in which case measurements were taken to its tip; or else the paddle could be oriented across the long axis of the rig (see Fig. III), in which case measurements were taken to the centre of the "paddle". The paddle could also be raised or lowered to ease movements between measurements, or to take certain measurements (see Fig. III). Many of the measurements were taken with the wrist crease aligned on a reference line known as the "baseline", which was scribed onto the measuring table (see Fig. I). There was a mirror below this line, so that the wrist crease could be seen to ease placement of the subject's hand, and so that parallax errors could be avoided.

For some dimensions on some subjects, the range of movement of the potentiometer was not sufficient, and in these cases the measuring table could be extended (as it has been in Fig. III) to another position, by releasing two catches and sliding the whole table back on a set of precision bearings. These two different table positions were registered by two micro-switches, which were tripped when the table was correctly located in one of the two measuring positions. Spring catches also operated in these two positions to ensure accurate location.

For many of the other measurements, such as finger breadths and depths, it was necessary to have the hand positioned against a physical stop, and in these cases a perspex insert (see Fig. II) was slotted into two locating holes on the measuring table (see Fig. I).

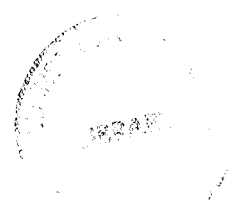


FIG. 1. THE ANTHROPOMETER WITH THE "MEASURING PADDLE"
IN ITS NORMAL POSITION.

Measuring table retaining catch Measuring Paddle

Baseline Locating Holes Tip

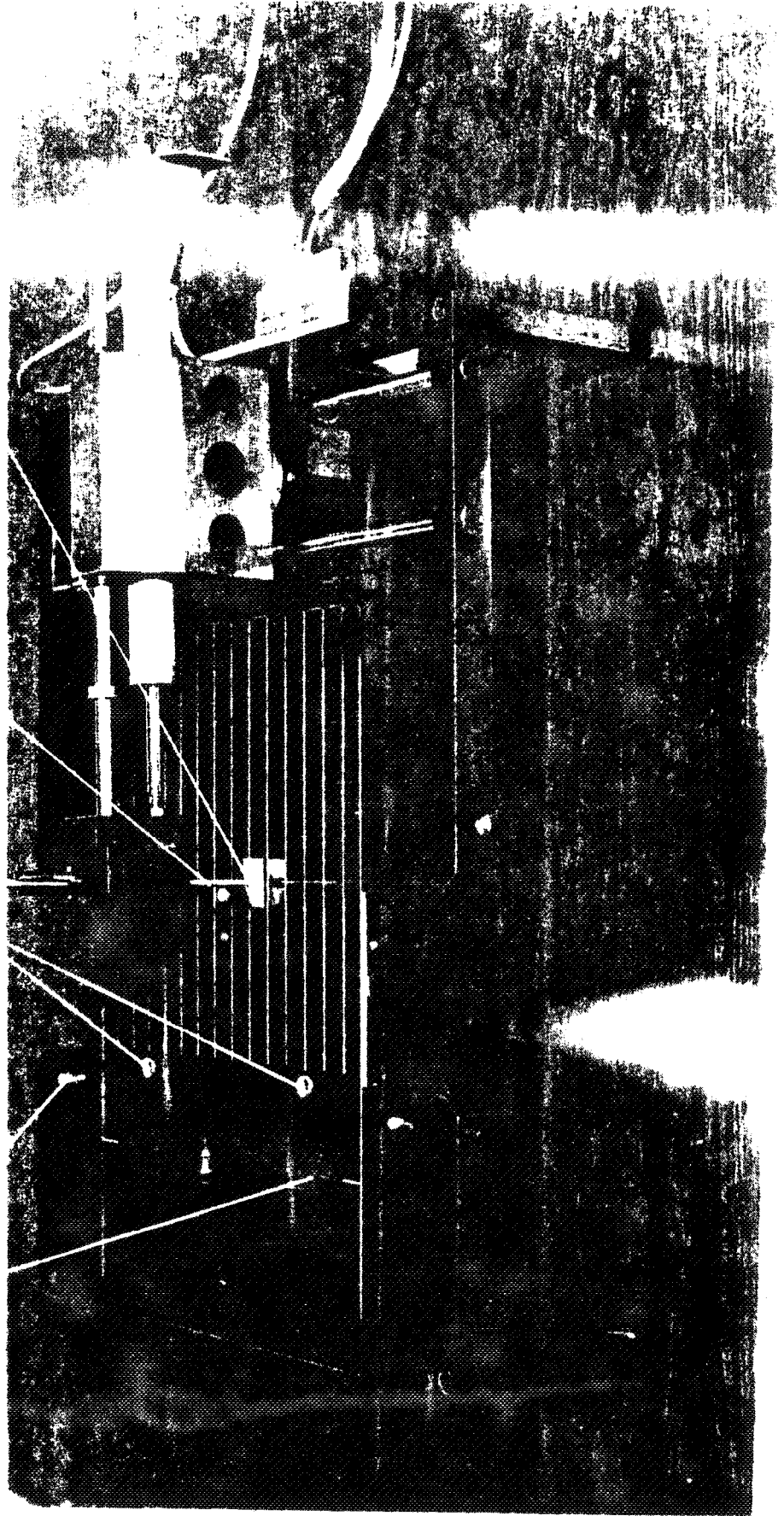


FIG. II. ANTHROPOMETER WITH PERSPEX INSERT AND
THE MEASURING TABLE EXTENDED.

Perspex Insert

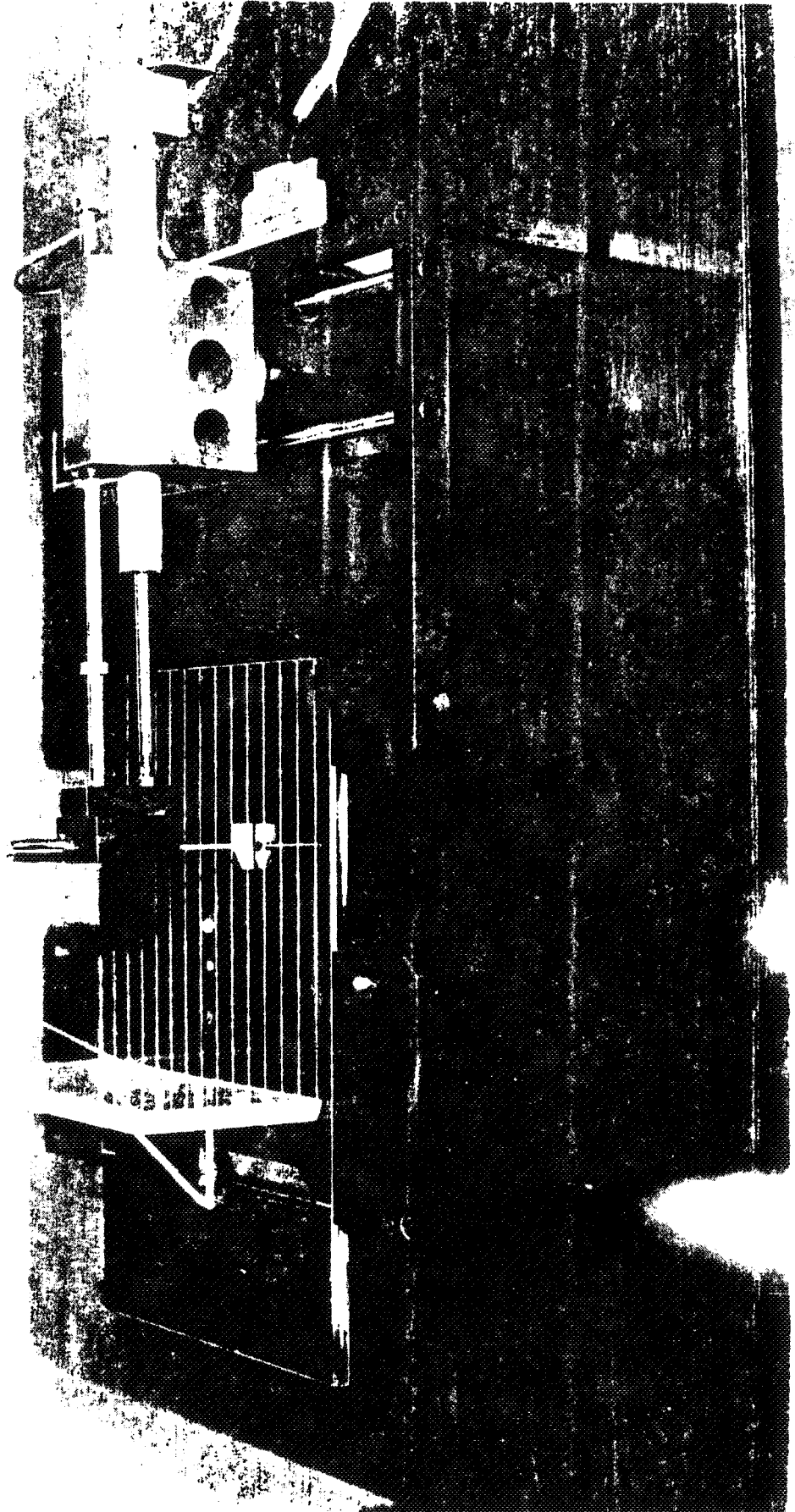


FIG. III. MEASURING PADDLE LIFTED AND TURNED THROUGH NINETY DEGREES IN ORDER TO MEASURE THE LENGTH OF DIGIT 4 FROM THE PROXIMAL INTERPHALANGEAL JOINT TO THE WRIST CREASE.



COMPUTER SYSTEM

The measuring rig was connected to a micro-computer system, based on a North Star Horizon computer with 48K of RAM and twin disc drives, which had been modified to act as a data logger with both digital and analogue input/output. The analogue part of this system was set to a bipolar voltage of 2.5 volts, and would differentiate throughout this range in steps of 0.02 volts. The system had a measurement accuracy of +0.5mm.

For this survey the data logging was organized by a Fortran program called HAND, operating under CPM. A brief description of the program's actions is given below:-

On being loaded the program checked the calibration of the equipment, by taking readings of the voltages at the two extreme ends of the measuring stroke. If the equipment had drifted off calibration, adjustment of a trimming potentiometer could be made, until the equipment was correctly calibrated. After the computer had accepted that the equipment was correctly calibrated, it supplied a series of prompts on to the VDU, asking for such things as the subject's name, age and weight. Answers to these were given through the keyboard, with answers outside certain limits being rejected.

Once the preliminary questions had all been answered satisfactorily, a prompt appeared on the screen for the first measurement. Once the experimenter was satisfied that the "measuring paddle" was correctly positioned for this measurement, he pressed the "accept" button, and the computer read in the analogue voltage corresponding to the position of the "measuring paddle". It also scanned some digital lines to identify the present position of the measuring table, and if this was incorrectly located an error message was evoked and the reading could be taken again. Dependent upon this information and the number of the measurement being taken, the computer calculated the dimension being measured and performed various checks on it. If the data was acceptable it was displayed on the VDU, followed by a prompt for the next reading, which could then be taken after a short delay to prevent multiple readings on a single key press. If the data was unacceptable, due to being longer or shorter than another dimension which was being used as a check, or due to having a low correlation with the same dimension on the other hand, a tone was sounded and a diagnostic error message was displayed on the VDU. The experimenter then had the option of either retaking that reading, retaking any other reading, or of accepting the reading as genuine. The facility to retake any reading was also possible anytime that a prompt for a new reading was displayed, by pressing the "reset" or "change" buttons.

When all the measurements had been taken the experimenter was asked by the system if he wished to input any measurements direct from the keyboard. This facility was used for the very infrequent measurements which were outside the range of the anthropometer, and which

were measured to the nearest half millimetre by a vernier. Once the experimenter responded that he did not wish to input any more data, a printout of the data was made, and it was transferred to a floppy disc for storage. The experimenter was then asked if he wished to measure another subject, and if he did, another calibration check was made before proceeding with the measurement process.

SAMPLES

This survey measured the hands of three hundred female and three hundred male British workers. Originally, provisional plans were made to conduct the survey at ten firms engaged in the hand tool industry, but unfortunately due to various reasons, several of these firms found themselves unable to support the survey, and so it was eventually carried out at a larger number of firms at nine different geographical locations throughout England and Wales. The participating organizations are listed in Appendix B, and sincere thanks must be extended to them all. No attempt was made during the sampling to choose subjects on the basis of race, but most of the subjects turned out to be white Caucasian (296 in the female sample; 297 in the male sample). Dropping the non-Caucasian subjects from the sample only had a marginal effect, at most altering the means and standard deviations at the second decimal place, and so in the analyses which are included in this report, no separation has been made on the basis of race.

For the survey it was felt that an emphasis should be placed on measuring people who used their hands a lot during their work, and so only subjects from certain occupations were used. According to her occupation each female subject was classified as (1) Typing, or (2) Non-typing. The typing group included typists and VDU operators, but excluded women who only spent a small portion of their time typing or using VDU's. The non-typing group included non-typing office staff, sewing machinists and shop assistants. The two occupational categories for the male subjects were (1) Light manual and technical work, or, (2) Medium to heavy manual work. Summary statistics for the different occupation groups are given on pages F54 and M54.

Further summary statistics about the sample are given from pages F54 and M54.

METHOD

When each subject arrived to be measured, they were asked to remove their shoes and jacket in order to measure their weight and stature. The subject's weight was obtained to the nearest half kilogram, and their stature was measured to the nearest half centimetre in a free-standing erect position looking straight forward with their hands by their sides.

They were then seated in front of the anthropometer, and a felt-tipped pen was used to mark their most distal wrist crease. Then their occupational category, geographical location, age, sex, race, preferred hand, number of rings worn, weight and stature were recorded.

It was then possible to begin measuring the subject's hands, and so their left hand was carefully placed on the measuring table, and it was positioned for the first measurement, as described in detail on pages F1 and M1. When the experimenter was satisfied with the position of the subject's hand and the "measuring paddle", he pressed the "accept" button to record the measurement. This procedure was repeated for the different dimensions (positioning the hand and equipment as detailed in the Data sections), until all the measurements on the subject's left hand had been completed, then the procedure was repeated with the subject's right hand.

Although detailed descriptions of all the measurements appear in the Data sections, and some photographs are given as Figs. III to IX, the following points about measurement should be made at this juncture.

- 1) Measurements were made to the point at which the "measuring paddle" just made contact with the hand, without exerting any significant pressure.
- 2) Rings were not removed.
- 3) Watches and bracelets were only removed if it was felt that they interfered with the measurement of wrist breadth.
- 4) Measurement of finger ends was made to the actual ends of the digits, not to the tips of the fingernails.
- 5) Joint centres were estimated from skinfolds, and joint breadths used the widest points close to these skinfolds.
- 6) Many of the subjects could not easily place their hands flat down on the palmar surface, and so the flattest position which they could comfortably manage to hold was used.

FIG. IV. MEASURING THE LENGTH OF DIGIT 4
FROM ITS TIP TO THE WRIST CREASE.

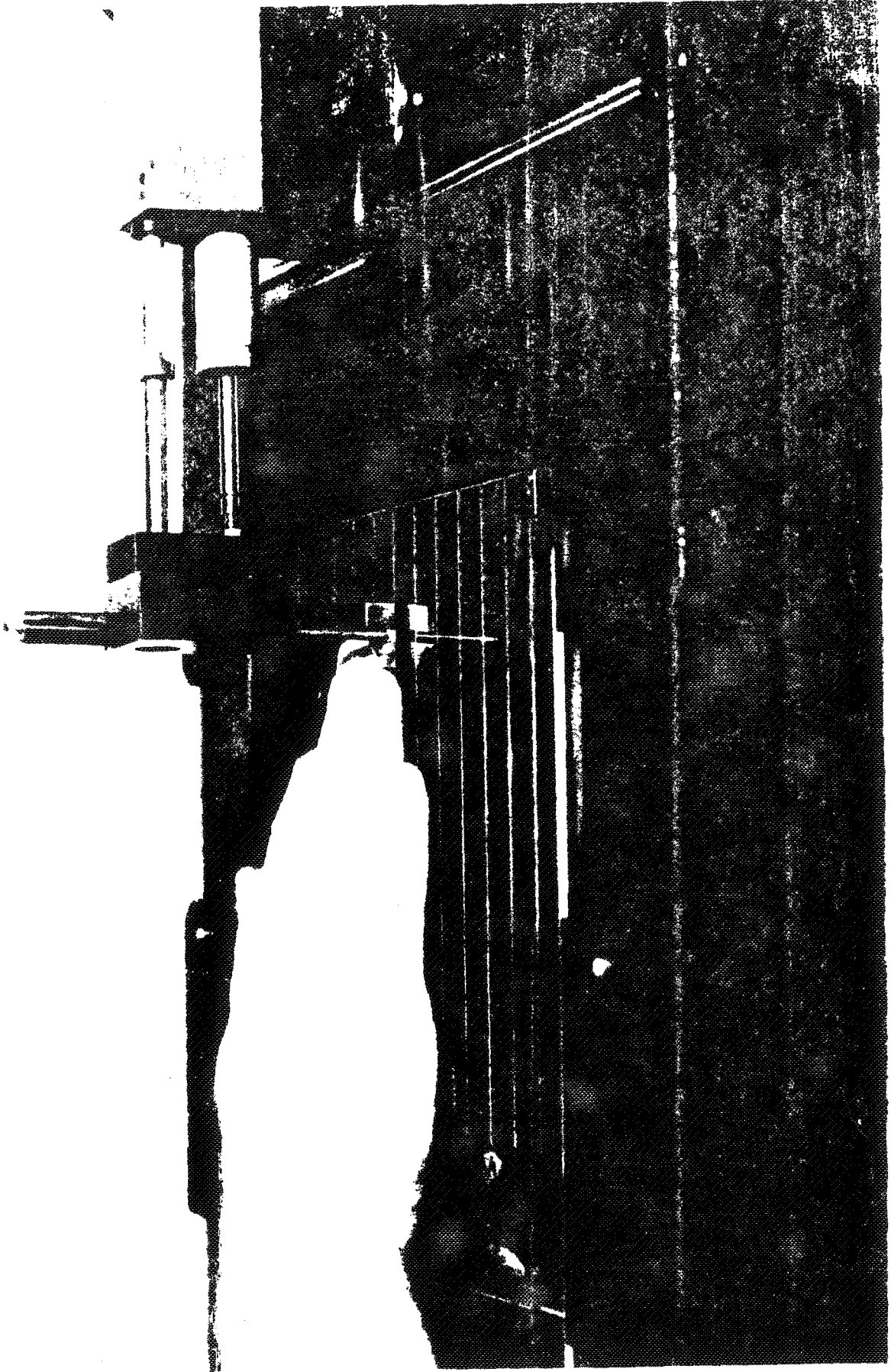


FIG. V. MEASURING THE DISTANCE FROM CROTCH 3 TO THE WRIST CREASE.

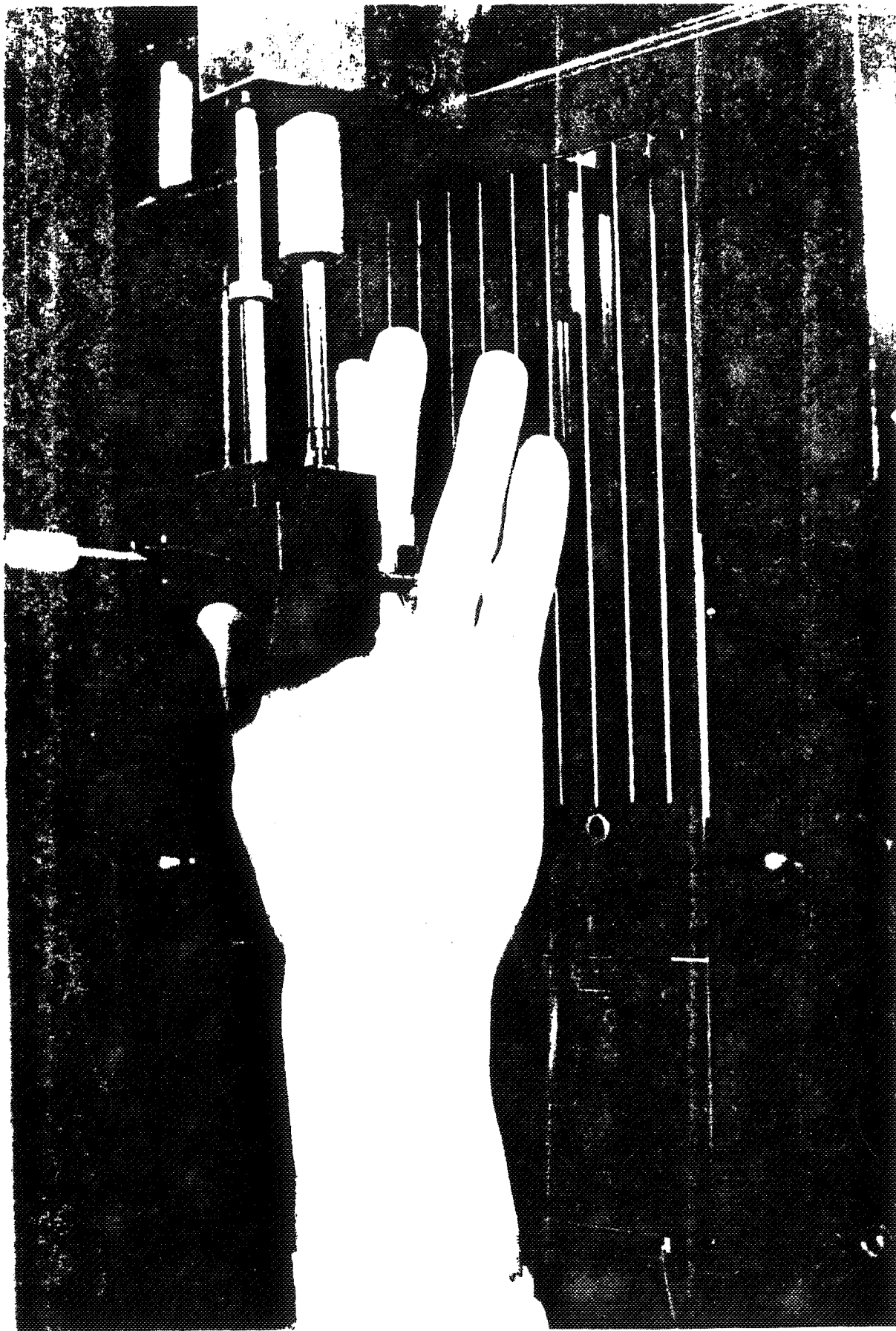


FIG. VI. MEASURING POLLUX INTER-
PHALANGEAL JOINT BREADTH,

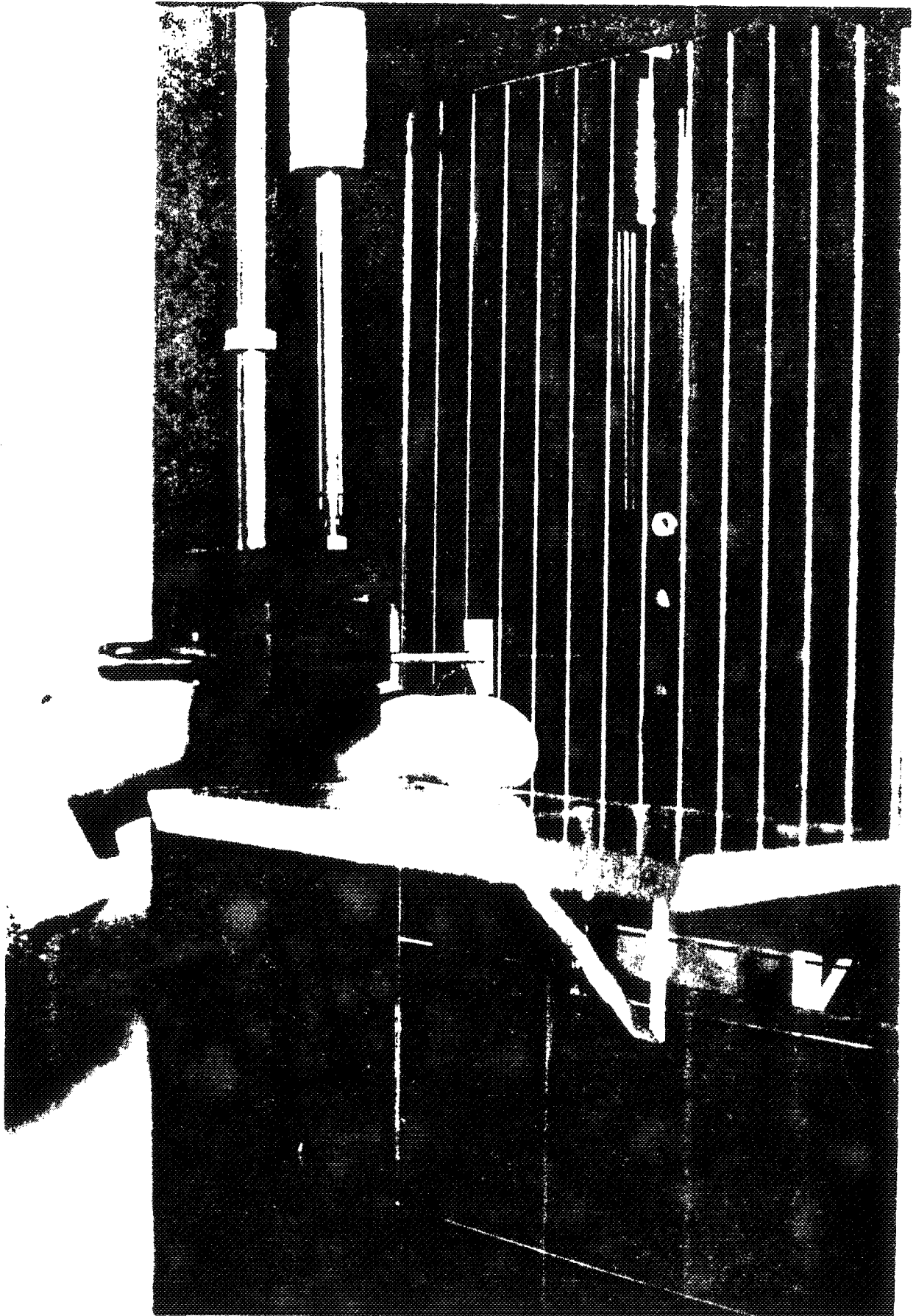


FIG. VII. MEASURING THE BREADTH OF THE PROXIMAL INTER-PHALANGEAL JOINT OF DIGIT 3.

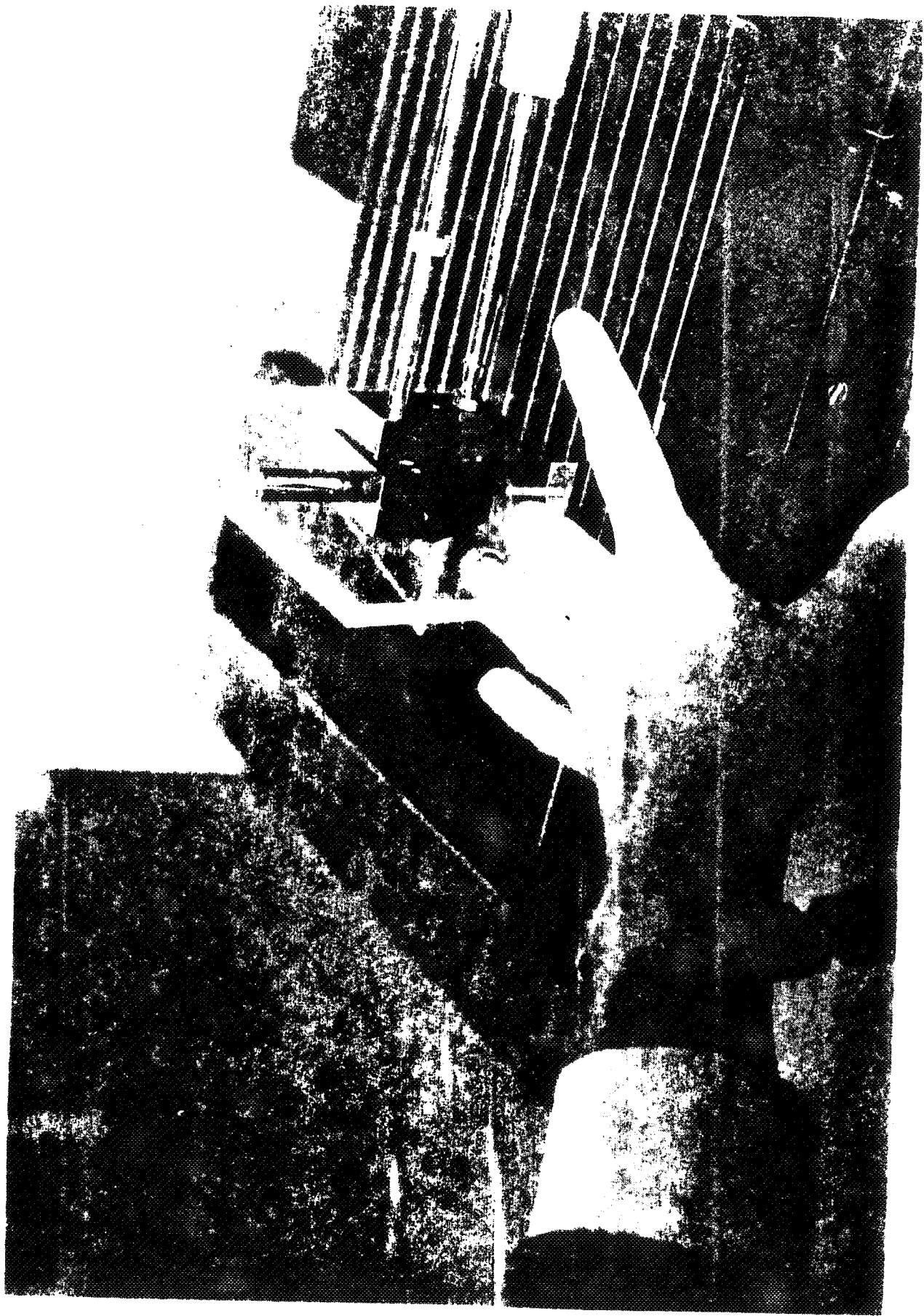


FIG. VIII. MEASURING THE HAND BREADTH ACROSS THE METACARPAL BONES.

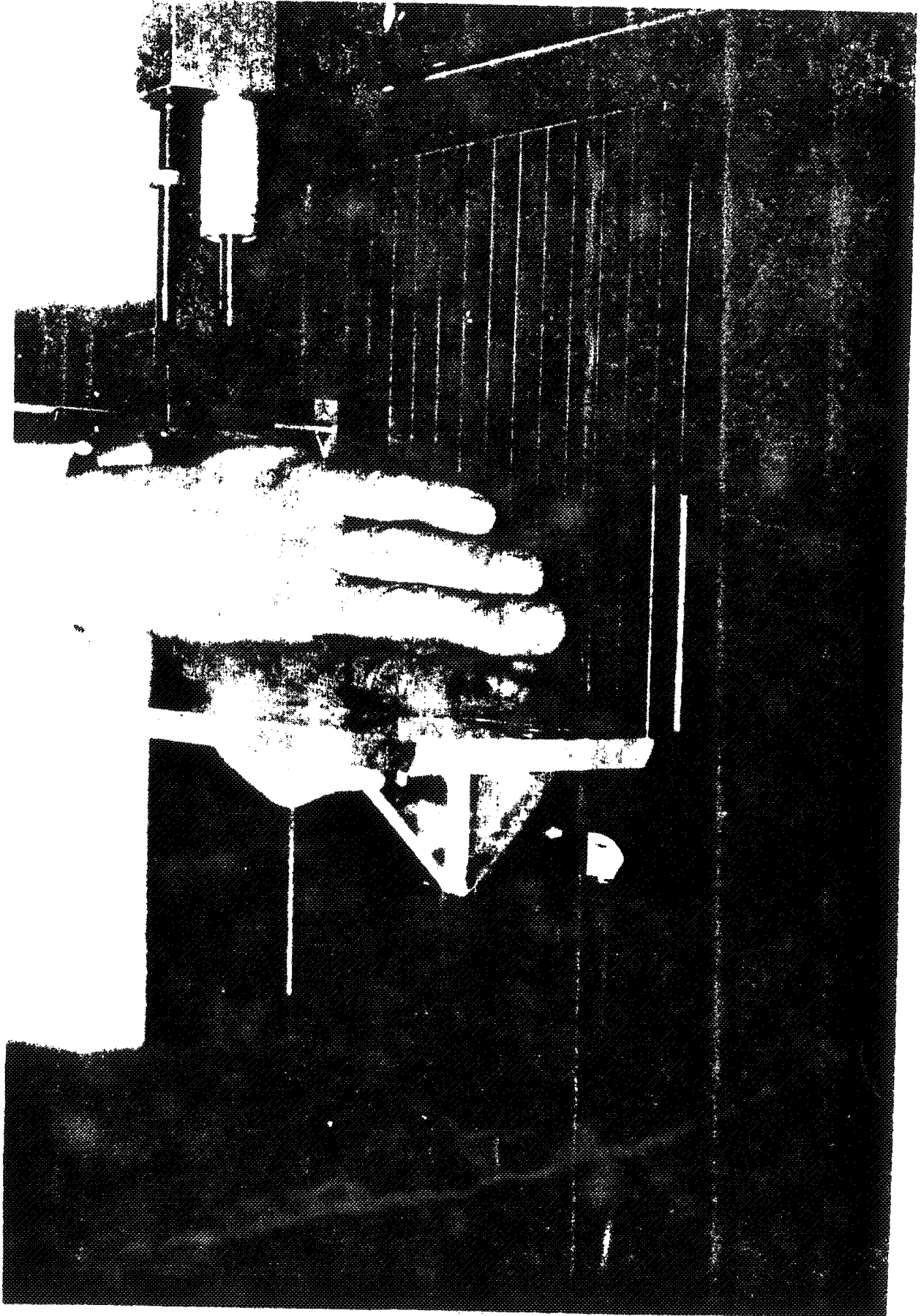
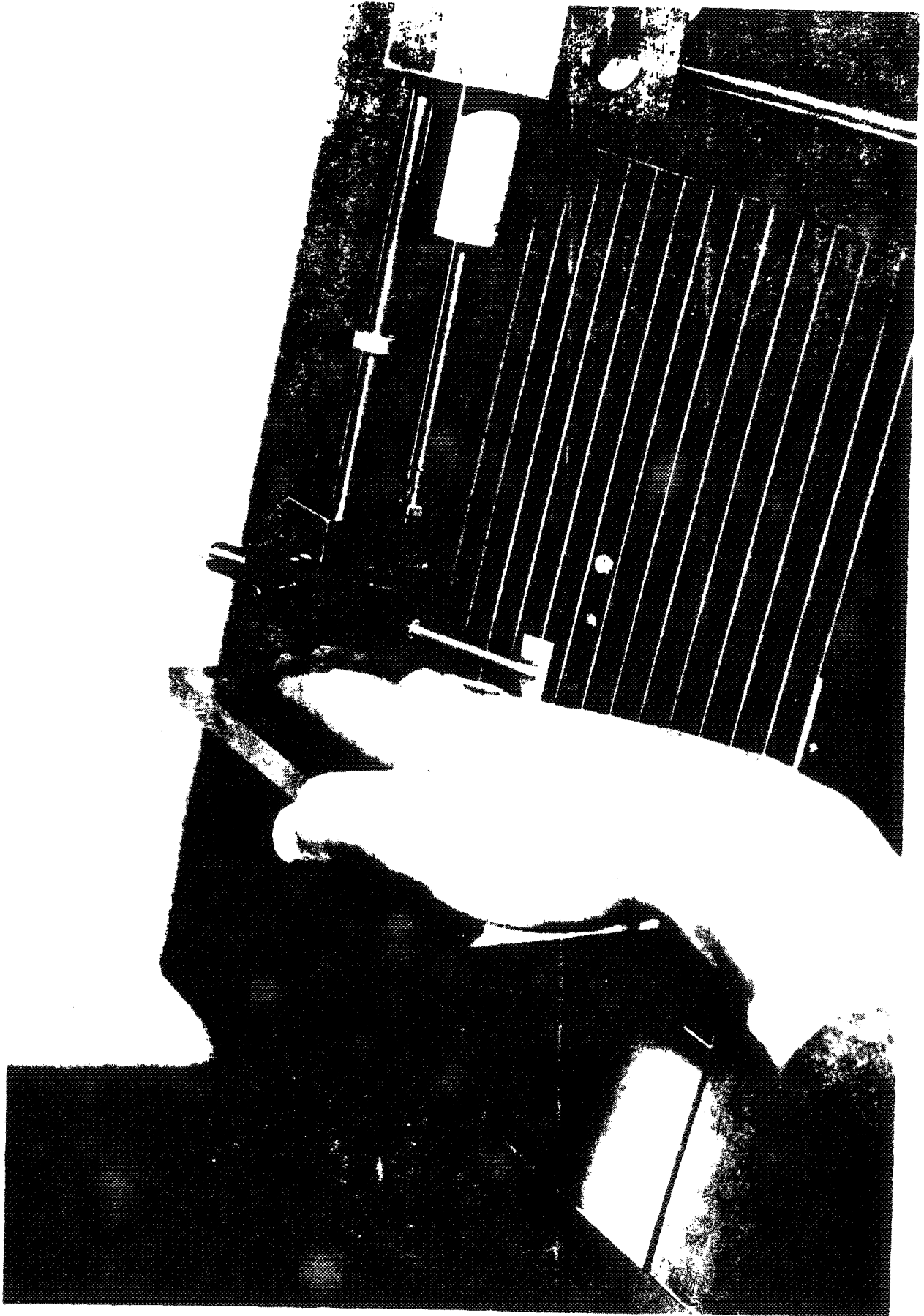


FIG. IX. MEASURING THE HAND THICKNESS.



RESULTS

The survey results are presented separately for females and for males as pages F1 to F56, and M1 to M56 respectively. The first forty five pages of each of these sections gives summaries for each dimension in turn, and each of these pages is formatted to a standard design. At the top of each page is a description of the dimension and how it was measured, together with an explanatory illustration. Then a note is given of the correlation between left and right hands for the dimension. After this the bottom half of the page is used to give separate information about the left and right hands for the dimension. If this information is given in the form of a dimension, then it is given in centimetres. For each hand the following information is given:-

Mean and Median: These are statistical measures of central tendency.

Standard Deviation (Standev) and Coefficient of Variation (C of Var): These are statistical measures of variability, with the Coefficient of variation calculated as (standard deviation/mean) x 100.

Kurtosis and Skewness: These measures give an estimate of how well the data fits a Normal distribution. Kurtosis is calculated by a method suggested by Bliss (1967). This gives an indication of whether the distribution is flatter than a Normal distribution (platykurtic), or whether it is taller (leptokurtic). For a true Normal distribution Kurtosis = 3). The skewness is calculated by a method suggested by Bliss (1967), and this indicates whether the distribution is positively or negatively skewed. A symmetrical distribution would have a value of 0.

Minimum and Maximum: These indicate the minimum and maximum values which were measured.

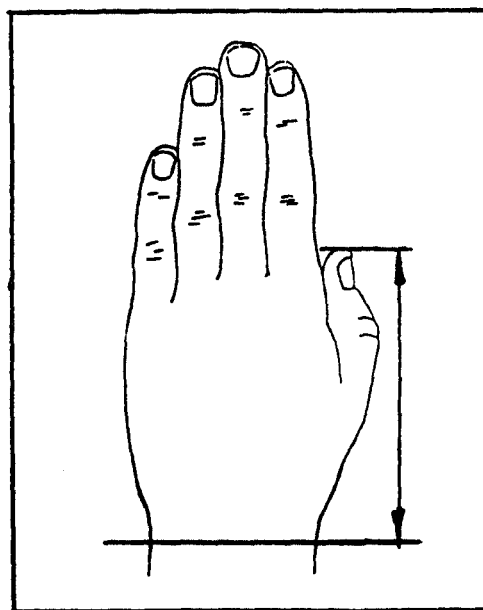
Percentiles: Various percentiles are given from the first to the ninety ninth. These were all obtained from the mean and standard deviation by using a simple formula which assumes a Normal distribution. By referring to Appendix B it is possible to calculate other percentiles if they should be required.

From pages F46 to F53 (and M46 to M53) correlation matrices are displayed first for the left hand and then for the right hand. These are labelled by using the page number on which the dimension appears instead of the dimension name (except for height and weight). Thus on page F46 the correlation of 0.49 between F19 and F20 gives the correlation between the depth of pollux joint and its breadth for the left hand for female subjects.

The remaining pages of each data section provide statistical summaries of selected measures for different sub-groups.

POLLUX LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of her pollux (thumb) to her wrist crease.



Correlation between left and right is 0.77

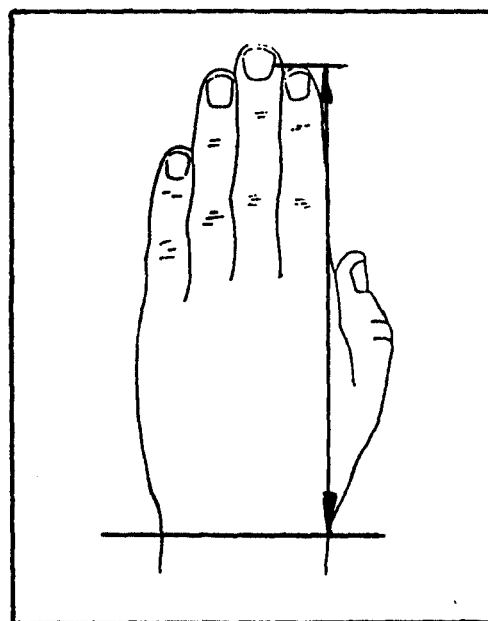
<u>LEFT</u>				<u>RIGHT</u>			
Mean	10.84	Median	10.82	Mean	10.88	Median	10.87
Standev	0.59	C of Var	5.42	Standev	0.62	C of Var	5.67
Kurtosis	0.43	Skewness	0.02	Kurtosis	1.00	Skewness	0.16
Minimum	9.00	Maximum	12.40	Minimum	8.80	Maximum	12.90

Percentiles

9.47	1	9.45
9.73	3	9.72
9.87	5	9.87
10.09	10	10.09
10.44	25	10.47
10.84	50	10.88
11.24	75	11.30
11.59	90	11.67
11.81	95	11.90
11.95	97	12.04
12.21	99	12.32

DIGIT 2 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of her second digit (index finger) to her wrist crease.



Correlation between left and right is 0.90

LEFT

Mean	16.47	Median	16.46
Standev	0.70	C of Var	4.26
Kurtosis	0.41	Skewness	-0.10
Minimum	14.10	Maximum	18.30

RIGHT

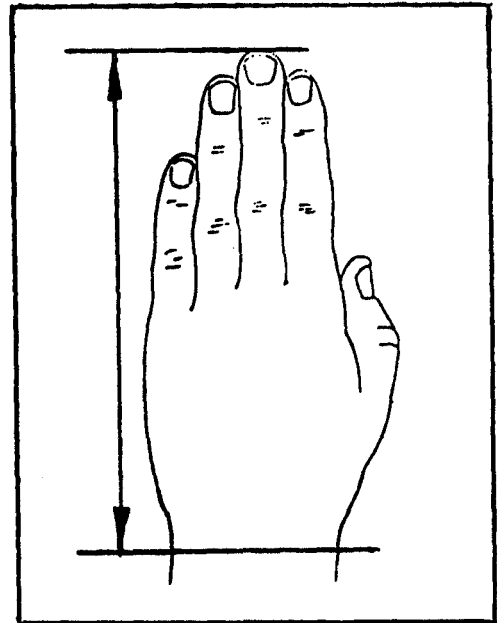
Mean	16.49	Median	16.50
Standev	0.72	C of Var	4.35
Kurtosis	0.50	Skewness	0.11
Minimum	14.25	Maximum	18.65

Percentiles

14.84	1	14.82
15.15	3	15.14
15.32	5	15.31
15.57	10	15.57
16.00	25	16.01
16.47	50	16.49
16.95	75	16.97
17.37	90	17.41
17.63	95	17.67
17.79	97	17.84
18.10	99	18.16

DIGIT 3 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of her third digit (middle finger) to her wrist crease.



Correlation between left and right is 0.90

LEFT

Mean 17.42 Median 17.40
 Standev 0.72 C of Var 4.14
 Kurtosis 0.34 Skewness 0.10
 Minimum 15.20 Maximum 19.50

RIGHT

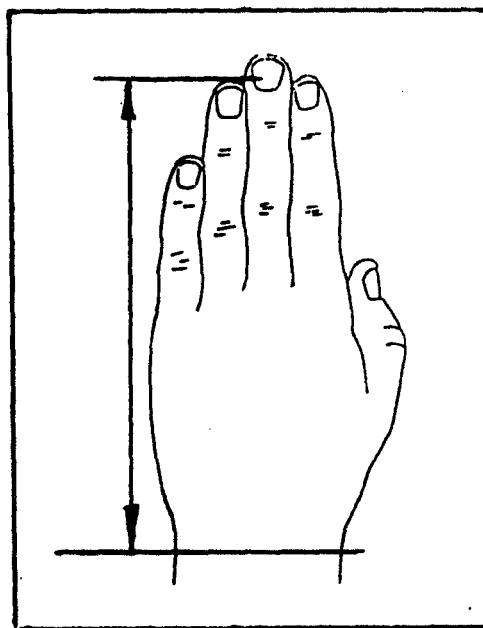
Mean 17.42 Median 17.39
 Standev 0.74 C of Var 4.23
 Kurtosis 0.48 Skewness 0.07
 Minimum 14.80 Maximum 19.60

Percentiles

15.74	1	15.70
16.06	3	16.03
16.23	5	16.20
16.49	10	16.47
16.93	25	16.92
17.42	50	17.42
17.91	75	17.91
18.35	90	18.36
18.61	95	18.63
18.78	97	18.80
19.10	99	19.13

DIGIT 4 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of her fourth digit (ring finger) to her wrist crease.



Correlation between left and right is 0.89

LEFT

Mean	16.31	Median	16.30
Standev	0.70	C of Var	4.27
Kurtosis	0.25	Skewness	0.11
Minimum	14.10	Maximum	18.40

RIGHT

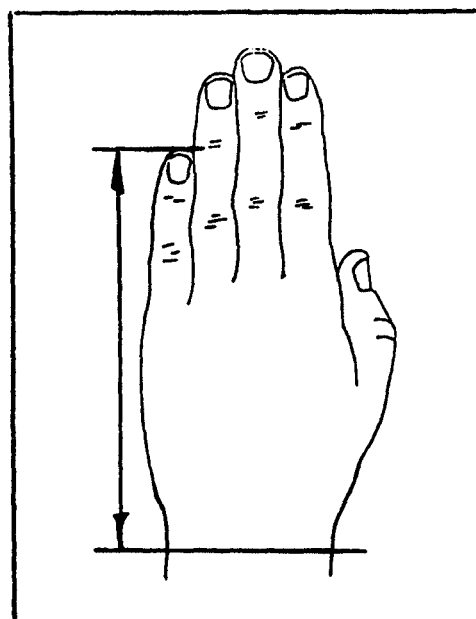
Mean	16.33	Median	16.30
Standev	0.69	C of Var	4.22
Kurtosis	0.25	Skewness	0.04
Minimum	14.15	Maximum	18.55

Percentiles

14.69	1	14.73
15.00	3	15.03
15.16	5	15.19
15.41	10	15.44
15.84	25	15.86
16.31	50	16.33
16.78	75	16.79
17.20	90	17.21
17.45	95	17.46
17.62	97	17.62
17.92	99	17.93

DIGIT 5 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of her fifth digit (little finger) to her wrist crease.



Correlation between left and right is 0.83

LEFT

Mean	13.62	Median	13.62
Standev	0.62	C of Var	4.58
Kurtosis	0.09	Skewness	0.20
Minimum	11.80	Maximum	15.60

RIGHT

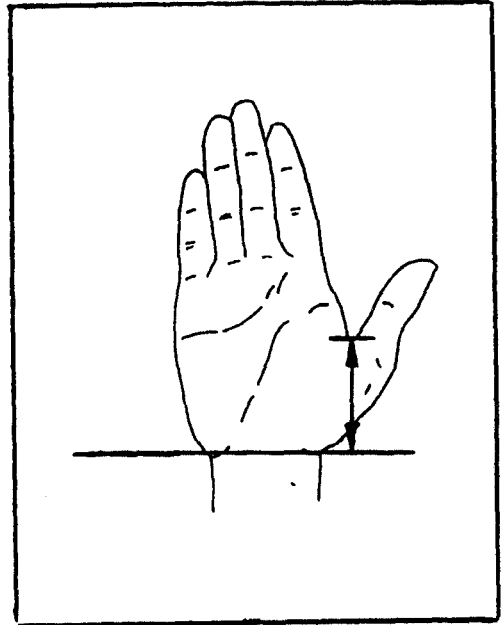
Mean	13.65	Median	13.64
Standev	0.62	C of Var	4.55
Kurtosis	0.06	Skewness	0.04
Minimum	11.95	Maximum	15.70

Percentiles

12.17	1	12.21
12.45	3	12.49
12.60	5	12.63
12.82	10	12.86
13.20	25	13.24
13.62	50	13.65
14.04	75	14.07
14.42	90	14.45
14.65	95	14.68
14.80	97	14.82
15.08	99	15.10

CROTCH 1 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The subject's pollux (thumb) was then abducted slightly, and a measurement was taken from the "baseline" to the nearest point on the skinfold in the crotch between her pollux (thumb) and her second digit (index finger).



Correlation between left and right is 0.73

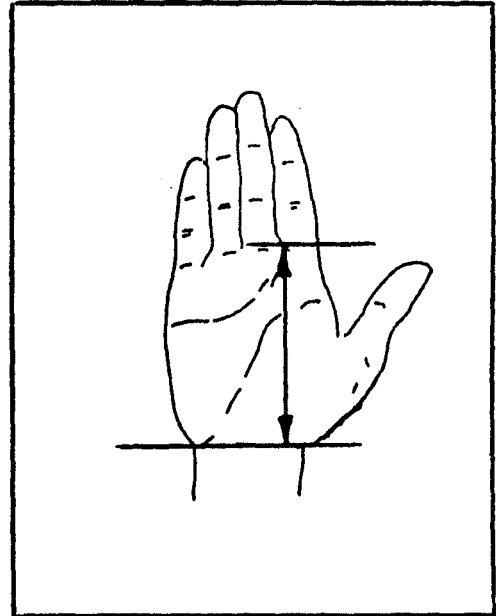
<u>LEFT</u>				<u>RIGHT</u>			
Mean	6.19	Median	6.17	Mean	6.16	Median	6.14
Standev	0.45	C of Var	7.31	Standev	0.47	C of Var	7.55
Kurtosis	0.58	Skewness	0.47	Kurtosis	0.76	Skewness	0.45
Minimum	5.20	Maximum	7.85	Minimum	5.15	Maximum	7.95

Percentiles

5.13	1	5.07
5.34	3	5.28
5.44	5	5.39
5.61	10	5.56
5.88	25	5.84
6.19	50	6.16
6.49	75	6.47
6.77	90	6.75
6.93	95	6.92
7.04	97	7.03
7.24	99	7.24

CROTCH 2 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open her fingers slightly whilst pointing her third digit (middle finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between her second (index) and third digit (middle finger).



Correlation between left and right is 0.81

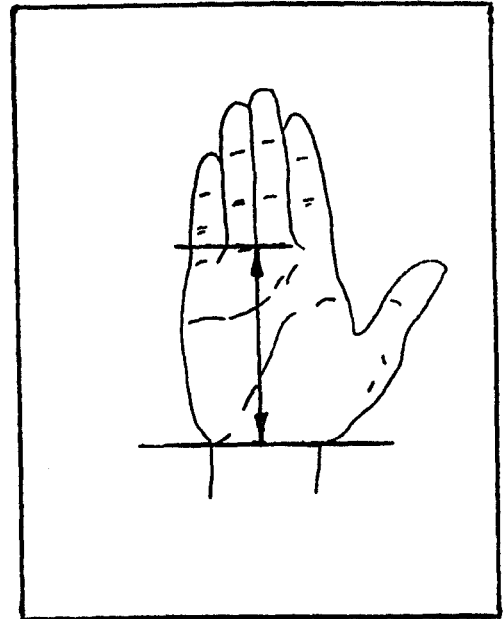
<u>LEFT</u>				<u>RIGHT</u>			
Mean	9.75	Median	9.75	Mean	9.77	Median	9.77
Standev	0.49	C of Var	5.02	Standev	0.51	C of Var	5.24
Kurtosis	0.65	Skewness	-0.02	Kurtosis	1.61	Skewness	0.44
Minimum	8.25	Maximum	11.35	Minimum	8.35	Maximum	12.00

Percentiles

8.61	1	8.58
8.83	3	8.81
8.94	5	8.93
9.12	10	9.11
9.42	25	9.42
9.75	50	9.77
10.08	75	10.12
10.37	90	10.43
10.55	95	10.61
10.67	97	10.73
10.89	99	10.96

CROTCH 3 TO WRIST CREESE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open her fingers slightly whilst pointing her third digit (middle finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between her third (middle) and fourth digit (ring finger).



Correlation between left and right is 0.83

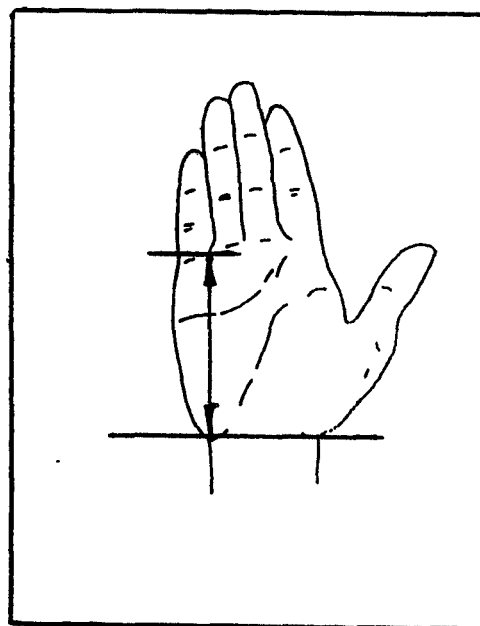
<u>LEFT</u>				<u>RIGHT</u>			
Mean	9.67	Median	9.65	Mean	9.70	Median	9.66
Standev	0.47	C of Var	4.82	Standev	0.47	C of Var	4.82
Kurtosis	0.39	Skewness	0.28	Kurtosis	1.02	Skewness	0.31
Minimum	8.45	Maximum	11.50	Minimum	8.45	Maximum	11.80

Percentiles

8.59	1	8.61
8.79	3	8.82
8.90	5	8.93
9.07	10	9.10
9.35	25	9.39
9.67	50	9.70
9.98	75	10.02
10.27	90	10.30
10.44	95	10.47
10.55	97	10.58
10.75	99	10.79

CROTCH 4 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open her fingers slightly whilst pointing her fourth digit (ring finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between her fourth (ring) and fifth digit (little finger).



Correlation between left and right is 0.75

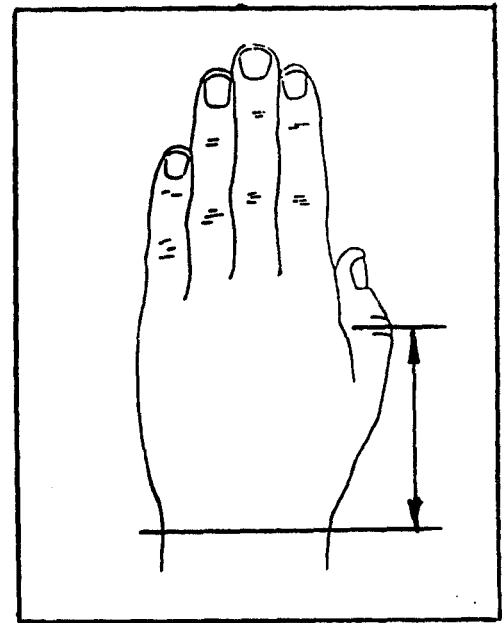
<u>LEFT</u>				<u>RIGHT</u>			
Mean	8.60	Median	8.55	Mean	8.66	Median	8.60
Standev	0.45	C of Var	5.20	Standev	0.45	C of Var	5.23
Kurtosis	0.31	Skewness	0.42	Kurtosis	0.95	Skewness	0.25
Minimum	7.55	Maximum	10.40	Minimum	7.00	Maximum	10.60

Percentiles

7.56	1	7.61
7.75	3	7.81
7.86	5	7.92
8.02	10	8.08
8.29	25	8.36
8.60	50	8.66
8.90	75	8.97
9.17	90	9.24
9.33	95	9.41
9.44	97	9.51
9.63	99	9.71

POLLUX INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was then oriented parallel to the "baseline", and was lowered onto the centre of the interphalangeal joint of the subject's pollux (thumb). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.81

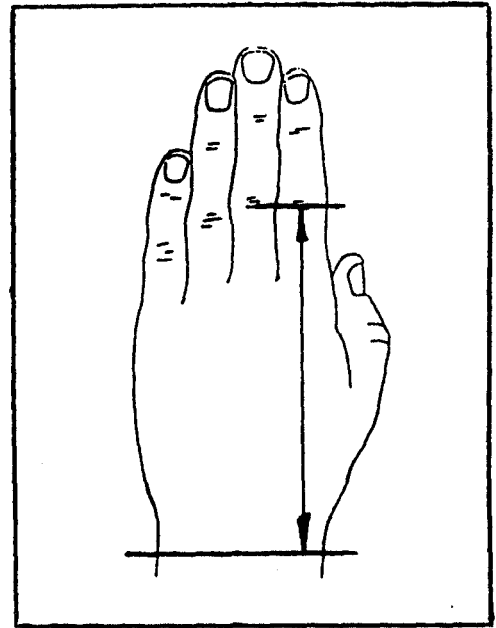
<u>LEFT</u>				<u>RIGHT</u>			
Mean	8.10	Median	8.08	Mean	8.06	Median	8.02
Standev	0.57	C of Var	7.09	Standev	0.56	C of Var	7.01
Kurtosis	0.44	Skewness	0.06	Kurtosis	0.77	Skewness	0.23
Minimum	6.55	Maximum	9.85	Minimum	6.50	Maximum	10.10

Percentiles

6.77	1	6.74
7.02	3	6.99
7.16	5	7.13
7.37	10	7.33
7.72	25	7.68
8.10	50	8.06
8.49	75	8.44
8.84	90	8.78
9.05	95	8.99
9.19	97	9.12
9.44	99	9.37

DIGIT 2 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's second digit (index finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.87

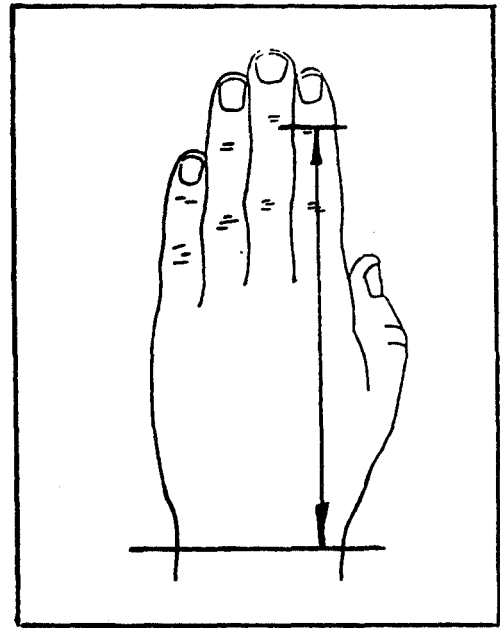
<u>LEFT</u>				<u>RIGHT</u>			
Mean	11.98	Median	11.98	Mean	11.93	Median	11.90
Standev	0.60	C of Var	5.01	Standev	0.64	C of Var	5.33
Kurtosis	4.23	Skewness	-0.65	Kurtosis	2.71	Skewness	-0.29
Minimum	8.30	Maximum	13.70	Minimum	8.45	Maximum	13.95

Percentiles

10.59	1	10.45
10.86	3	10.73
11.00	5	10.88
11.21	10	11.11
11.58	25	11.50
11.98	50	11.93
12.39	75	12.36
12.75	90	12.74
12.97	95	12.98
13.11	97	13.13
13.38	99	13.41

DIGIT 2 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's second digit (index finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.89

LEFT

Mean 14.29 Median 14.26
 Standev 0.64 C of Var 4.47
 Kurtosis 0.39 Skewness 0.08
 Minimum 12.30 Maximum 16.15

RIGHT

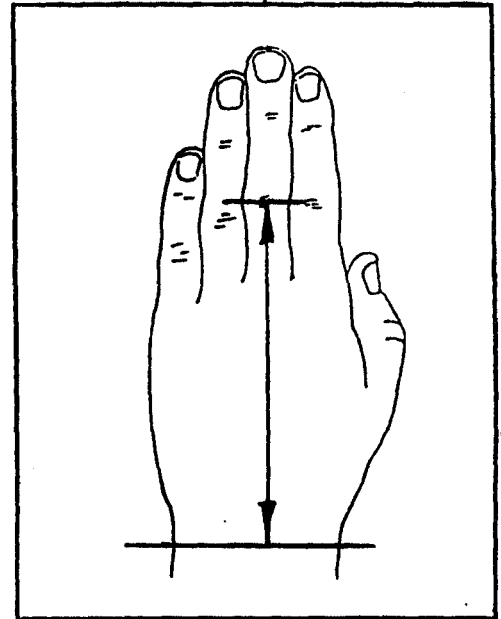
Mean 14.26 Median 14.25
 Standev 0.67 C of Var 4.67
 Kurtosis 0.57 Skewness 0.25
 Minimum 12.30 Maximum 16.50

Percentiles

12.81	1	12.71
13.09	3	13.01
13.24	5	13.16
13.47	10	13.40
13.86	25	13.81
14.29	50	14.26
14.72	75	14.71
15.11	90	15.11
15.34	95	15.35
15.49	97	15.51
15.78	99	15.81

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the proximal interphalangeal joint of the subject's third digit (middle finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.86

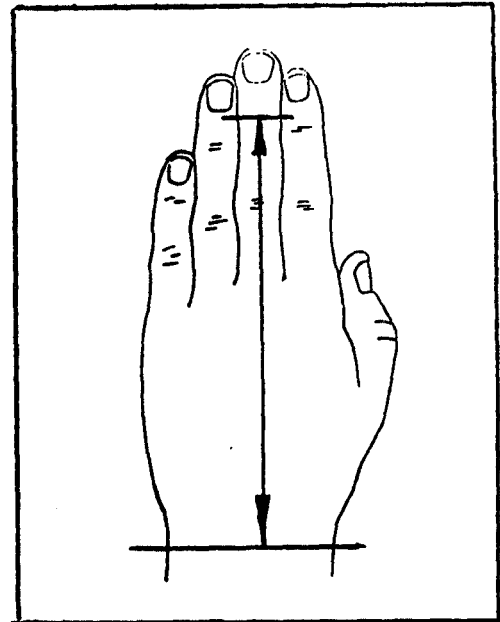
<u>LEFT</u>				<u>RIGHT</u>			
Mean	12.28	Median	12.27	Mean	12.25	Median	12.24
Standev	0.56	C of Var	4.54	Standev	0.56	C of Var	4.55
Kurtosis	0.49	Skewness	0.26	Kurtosis	0.62	Skewness	0.30
Minimum	10.75	Maximum	14.20	Minimum	10.60	Maximum	14.35

Percentiles

10.98	1	10.96
11.23	3	11.20
11.36	5	11.34
11.56	10	11.54
11.90	25	11.88
12.28	50	12.25
12.65	75	12.63
12.99	90	12.97
13.19	95	13.17
13.33	97	13.30
13.57	99	13.55

DIGIT 3 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's third digit (middle finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.90

LEFT

Mean 15.07 Median 15.08
 Standev 0.65 C of Var 4.29
 Kurtosis 0.43 Skewness 0.21
 Minimum 13.20 Maximum 17.00

RIGHT

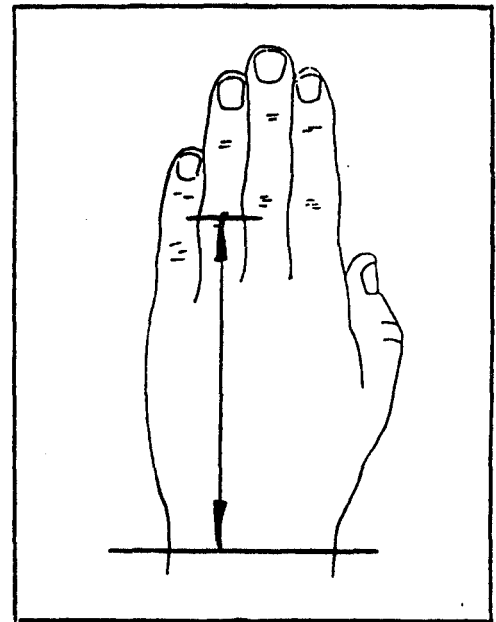
Mean 15.06 Median 15.02
 Standev 0.66 C of Var 4.40
 Kurtosis 0.41 Skewness 0.25
 Minimum 13.25 Maximum 17.10

Percentiles

13.57	1	13.51
13.85	3	13.81
14.01	5	13.96
14.24	10	14.21
14.63	25	14.61
15.07	50	15.06
15.50	75	15.50
15.90	90	15.90
16.13	95	16.15
16.28	97	16.30
16.57	99	16.60

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's fourth digit (ring finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.84

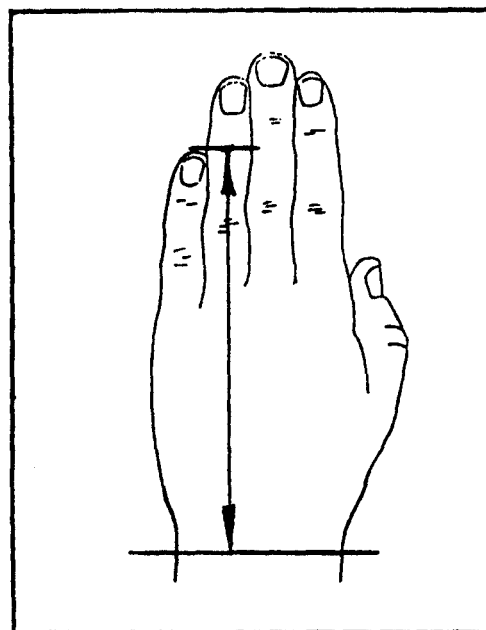
<u>LEFT</u>				<u>RIGHT</u>			
Mean	11.39	Median	11.35	Mean	11.43	Median	11.40
Standev	0.52	C of Var	4.57	Standev	0.52	C of Var	4.54
Kurtosis	0.21	Skewness	0.35	Kurtosis	0.47	Skewness	0.19
Minimum	10.15	Maximum	13.25	Minimum	9.85	Maximum	13.40

Percentiles

10.18	1	10.22
10.41	3	10.45
10.53	5	10.57
10.72	10	10.76
11.04	25	11.08
11.39	50	11.43
11.74	75	11.78
12.06	90	12.09
12.24	95	12.28
12.37	97	12.40
12.60	99	12.64

DIGIT 4 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's fourth digit (ring finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.89

LEFT

Mean 14.03 Median 14.05
 Standev 0.62 C of Var 4.44
 Kurtosis 0.21 Skewness 0.14
 Minimum 12.30 Maximum 16.00

RIGHT

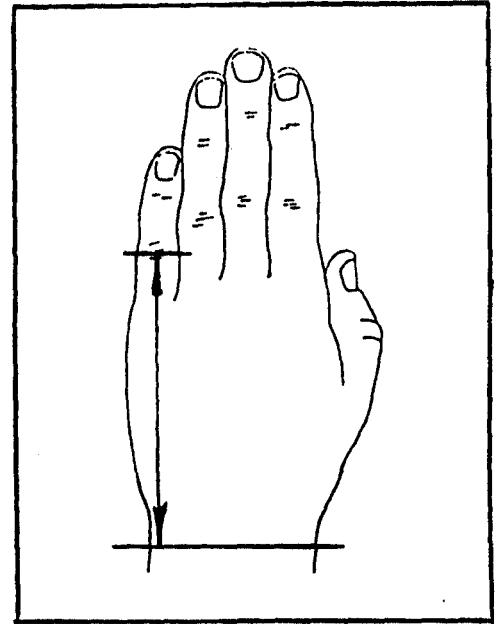
Mean 14.08 Median 14.07
 Standev 0.62 C of Var 4.42
 Kurtosis 0.19 Skewness 0.09
 Minimum 12.25 Maximum 16.10

Percentiles

12.58	1	12.63
12.85	3	12.91
13.00	5	13.05
13.23	10	13.28
13.61	25	13.66
14.03	50	14.08
14.45	75	14.50
14.82	90	14.87
15.05	95	15.10
15.20	97	15.25
15.48	99	15.52

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's fifth digit (little finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.79

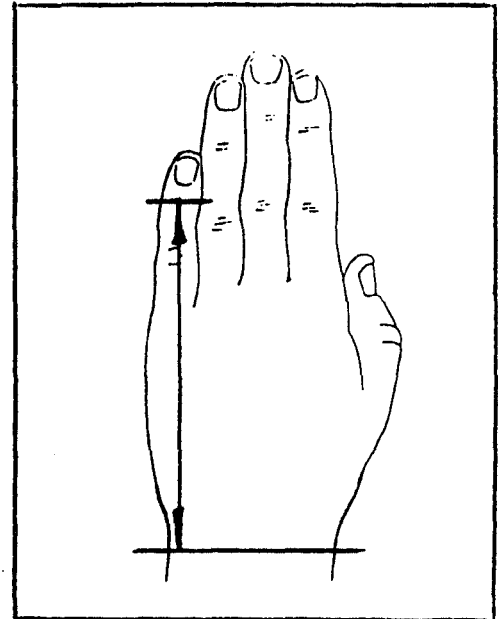
<u>LEFT</u>				<u>RIGHT</u>			
Mean	9.79	Median	9.78	Mean	9.86	Median	9.84
Standev	0.52	C of Var	5.36	Standev	0.50	C of Var	5.06
Kurtosis	1.68	Skewness	0.14	Kurtosis	1.52	Skewness	0.18
Minimum	7.50	Maximum	12.05	Minimum	8.05	Maximum	12.15

Percentiles

8.57	1	8.70
8.80	3	8.93
8.93	5	9.04
9.12	10	9.22
9.44	25	9.53
9.79	50	9.86
10.14	75	10.20
10.46	90	10.50
10.65	95	10.68
10.78	97	10.80
11.01	99	11.02

DIGIT 5 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep her fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's fifth digit (little finger). The distance from this point to her wrist crease was then measured.



Correlation between left and right is 0.83

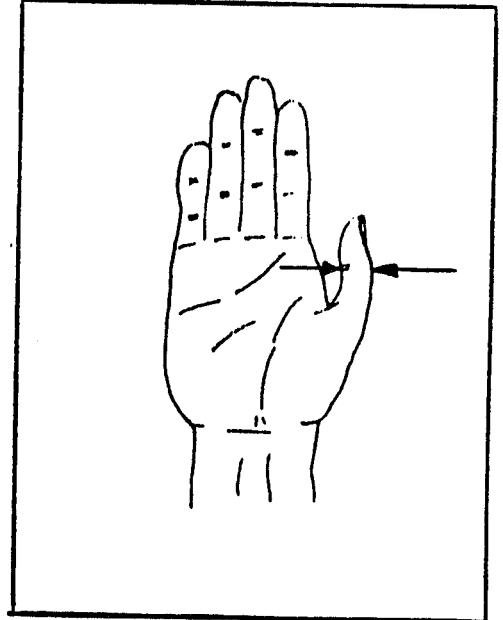
<u>LEFT</u>				<u>RIGHT</u>			
Mean	11.64	Median	11.60	Mean	11.72	Median	11.68
Standev	0.59	C of Var	5.09	Standev	0.59	C of Var	5.03
Kurtosis	0.57	Skewness	0.40	Kurtosis	0.88	Skewness	0.35
Minimum	10.00	Maximum	14.15	Minimum	10.05	Maximum	14.35

Percentiles

10.26	1	10.35
10.52	3	10.61
10.66	5	10.75
10.88	10	10.97
11.24	25	11.33
11.64	50	11.72
12.04	75	12.12
12.40	90	12.48
12.61	95	12.69
12.75	97	12.83
13.02	99	13.10

POLLUX INTERPHALANGEAL JOINT DEPTH

The subject's extended pollux (thumb) was placed on the measuring table, with the palmar surface against the perspex insert. The maximum depth of the interphalangeal joint was then measured directly.



Correlation between left and right is 0.82

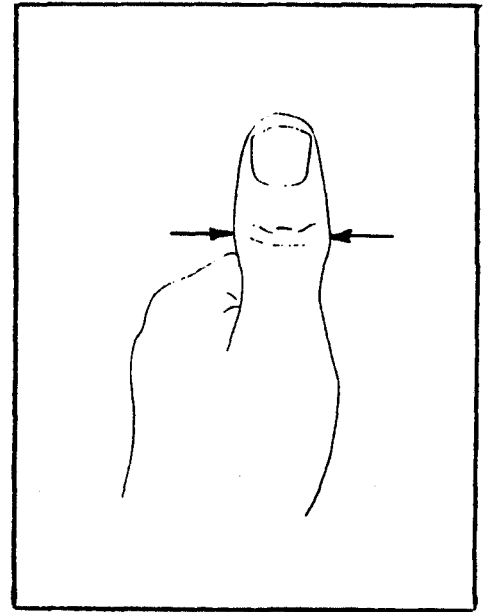
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.77	Median	1.77	Mean	1.81	Median	1.81
Standev	0.15	C of Var	8.24	Standev	0.15	C of Var	8.45
Kurtosis	1.26	Skewness	-0.26	Kurtosis	1.16	Skewness	-0.19
Minimum	1.20	Maximum	2.20	Minimum	1.20	Maximum	2.20

Percentiles

1.43	1	1.45
1.50	3	1.52
1.53	5	1.56
1.58	10	1.61
1.67	25	1.71
1.77	50	1.81
1.87	75	1.91
1.96	90	2.01
2.01	95	2.06
2.05	97	2.10
2.11	99	2.17

POLLUX INTERPHALANGEAL JOINT BREADTH

The subject's extended pollux (thumb) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the interphalangeal joint was then measured directly.



Correlation between left and right is 0.80

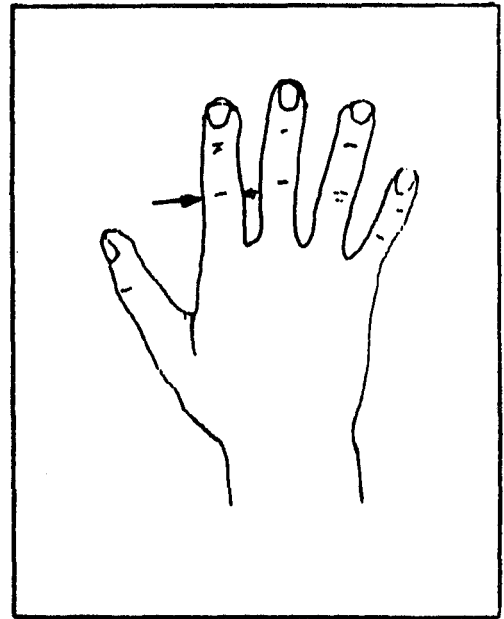
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.87	Median	1.86	Mean	1.91	Median	1.90
Standev	0.15	C of Var	7.84	Standev	0.15	C of Var	7.75
Kurtosis	0.34	Skewness	0.19	Kurtosis	0.87	Skewness	0.19
Minimum	1.40	Maximum	2.40	Minimum	1.35	Maximum	2.40

Percentiles

1.53	1	1.56
1.60	3	1.63
1.63	5	1.67
1.69	10	1.72
1.78	25	1.81
1.87	50	1.91
1.97	75	2.01
2.06	90	2.10
2.12	95	2.15
2.15	97	2.19
2.22	99	2.25

DIGIT 2 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended second digit (index finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.88

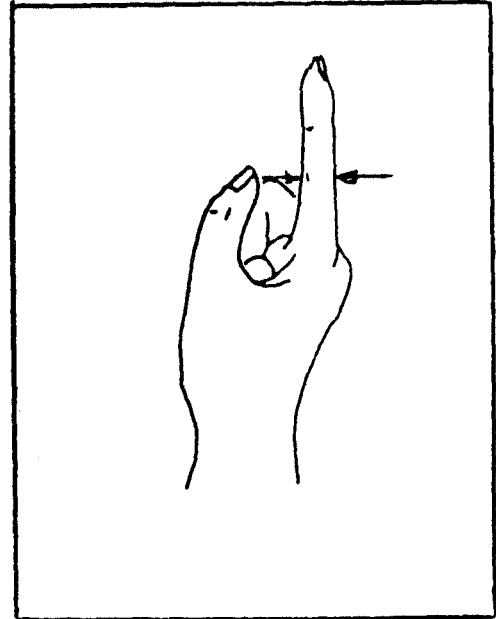
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.79	Median	1.79	Mean	1.83	Median	1.84
Standev	0.13	C of Var	7.20	Standev	0.13	C of Var	7.15
Kurtosis	0.68	Skewness	-0.12	Kurtosis	0.48	Skewness	-0.12
Minimum	1.40	Maximum	2.20	Minimum	1.45	Maximum	2.20

Percentiles

1.49	1	1.53
1.55	3	1.58
1.58	5	1.62
1.63	10	1.66
1.70	25	1.74
1.79	50	1.83
1.88	75	1.92
1.96	90	2.00
2.00	95	2.05
2.03	97	2.08
2.09	99	2.14

INDEX 2 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended second digit (index finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.80

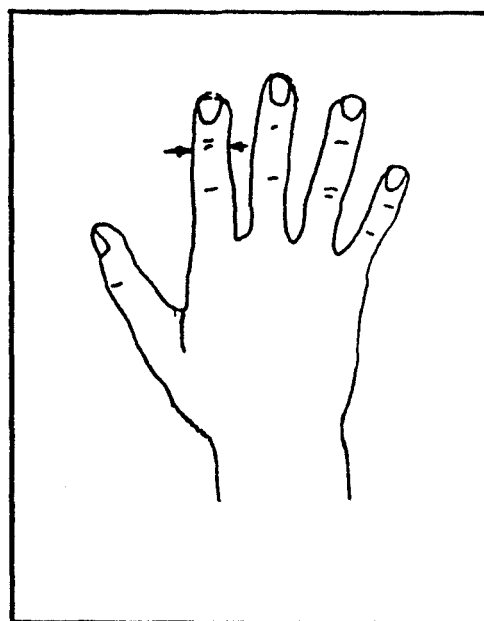
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.60	Median	1.60	Mean	1.63	Median	1.65
Standev	0.14	C of Var	9.09	Standev	0.14	C of Var	8.57
Kurtosis	2.84	Skewness	0.30	Kurtosis	-0.11	Skewness	-0.08
Minimum	1.05	Maximum	2.35	Minimum	1.25	Maximum	2.05

Percentiles

1.26	1	1.31
1.32	3	1.37
1.36	5	1.40
1.41	10	1.45
1.50	25	1.54
1.60	50	1.63
1.69	75	1.73
1.78	90	1.81
1.83	95	1.86
1.87	97	1.90
1.93	99	1.96

DIGIT 2 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended second digit (index finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.87

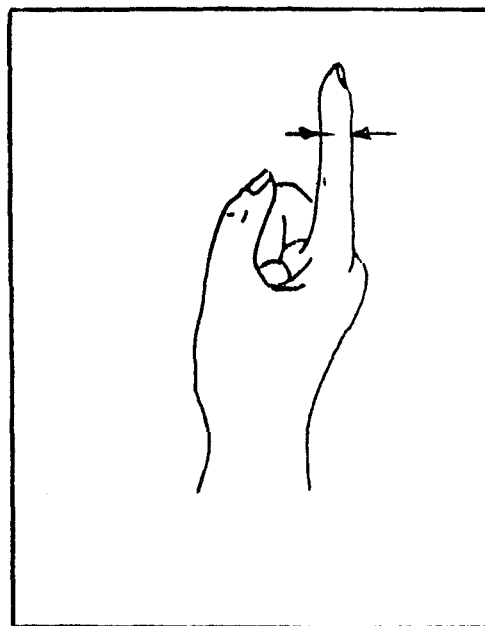
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.55	Median	1.57	Mean	1.60	Median	1.60
Standev	0.13	C of Var	8.37	Standev	0.14	C of Var	8.65
Kurtosis	0.25	Skewness	-0.15	Kurtosis	0.57	Skewness	-0.12
Minimum	1.15	Maximum	1.90	Minimum	1.15	Maximum	2.00

Percentiles

1.25	1	1.27
1.31	3	1.34
1.34	5	1.37
1.39	10	1.42
1.47	25	1.50
1.55	50	1.60
1.64	75	1.69
1.72	90	1.77
1.77	95	1.82
1.80	97	1.85
1.86	99	1.92

DIGIT 2 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended second digit (index finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.89

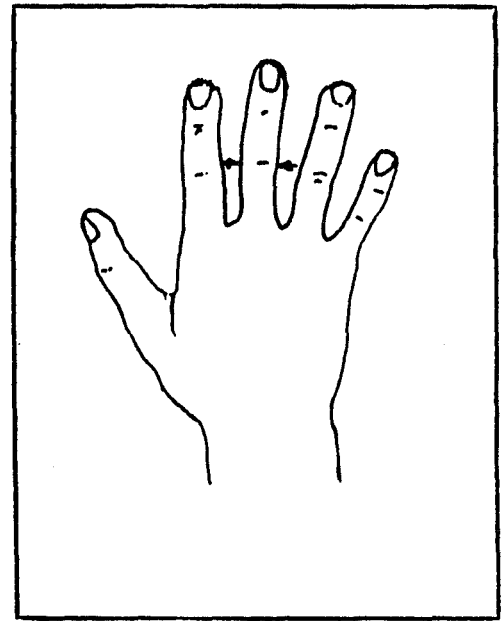
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.28	Median	1.27	Mean	1.30	Median	1.29
Standev	0.12	C of Var	9.56	Standev	0.13	C of Var	9.77
Kurtosis	0.78	Skewness	0.48	Kurtosis	2.53	Skewness	0.91
Minimum	0.95	Maximum	1.65	Minimum	0.95	Maximum	1.95

Percentiles

0.99	1	1.00
1.05	3	1.06
1.08	5	1.09
1.12	10	1.14
1.19	25	1.21
1.28	50	1.30
1.36	75	1.39
1.43	90	1.46
1.48	95	1.51
1.51	97	1.54
1.56	99	1.60

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended third digit (middle finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.89

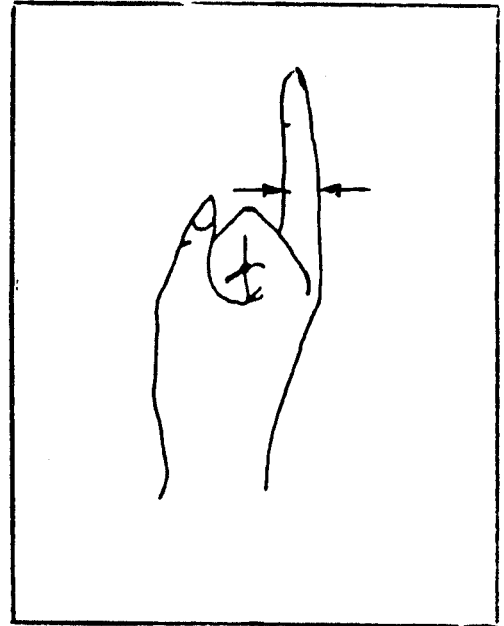
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.75	Median	1.75	Mean	1.80	Median	1.80
Standev	0.13	C of Var	7.31	Standev	0.14	C of Var	7.74
Kurtosis	1.88	Skewness	-0.27	Kurtosis	2.22	Skewness	-0.31
Minimum	1.20	Maximum	2.20	Minimum	1.20	Maximum	2.35

Percentiles

1.45	1	1.47
1.51	3	1.54
1.54	5	1.57
1.59	10	1.62
1.66	25	1.70
1.75	50	1.80
1.84	75	1.89
1.91	90	1.98
1.96	95	2.03
1.99	97	2.06
2.05	99	2.12

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended third digit (middle finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.86

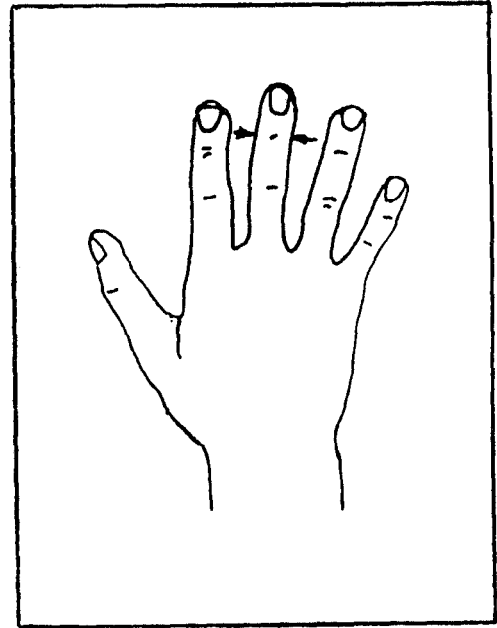
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.64	Median	1.62	Mean	1.68	Median	1.67
Standev	0.15	C of Var	9.16	Standev	0.15	C of Var	8.81
Kurtosis	2.08	Skewness	0.42	Kurtosis	0.76	Skewness	0.02
Minimum	1.20	Maximum	2.35	Minimum	1.25	Maximum	2.20

Percentiles

1.29	1	1.33
1.35	3	1.40
1.39	5	1.44
1.44	10	1.49
1.54	25	1.58
1.64	50	1.68
1.74	75	1.78
1.83	90	1.87
1.88	95	1.92
1.92	97	1.96
1.99	99	2.02

DIGIT 3 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended third digit (middle finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.86

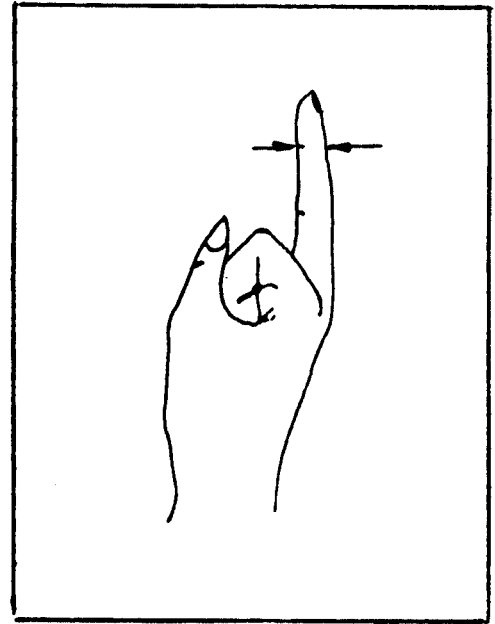
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.54	Median	1.56	Mean	1.57	Median	1.59
Standev	0.12	C of Var	7.57	Standev	0.13	C of Var	8.03
Kurtosis	0.98	Skewness	-0.35	Kurtosis	1.55	Skewness	-0.47
Minimum	1.15	Maximum	1.85	Minimum	1.10	Maximum	1.95

Percentiles

1.27	1	1.28
1.32	3	1.33
1.35	5	1.36
1.40	10	1.41
1.47	25	1.48
1.54	50	1.57
1.62	75	1.65
1.69	90	1.73
1.74	95	1.78
1.77	97	1.81
1.82	99	1.86

DIGIT 3 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended third digit (middle finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.90

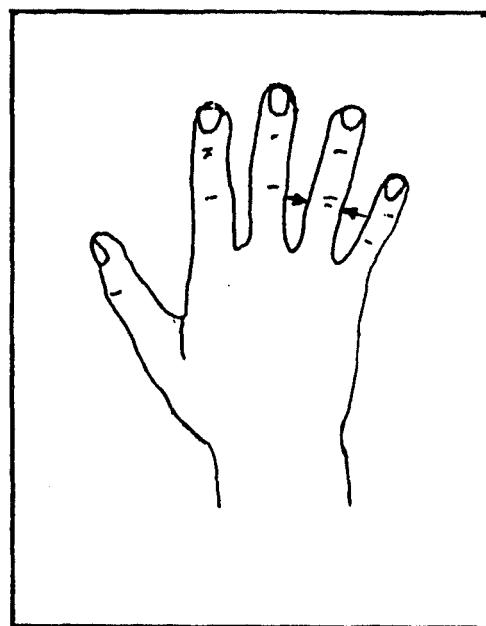
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.32	Median	1.32	Mean	1.34	Median	1.35
Standev	0.14	C of Var	10.24	Standev	0.14	C of Var	10.12
Kurtosis	0.35	Skewness	0.16	Kurtosis	0.38	Skewness	0.31
Minimum	0.85	Maximum	1.75	Minimum	0.90	Maximum	1.80

Percentiles

1.00	1	1.03
1.06	3	1.09
1.10	5	1.12
1.14	10	1.17
1.23	25	1.25
1.32	50	1.34
1.41	75	1.44
1.49	90	1.52
1.54	95	1.57
1.57	97	1.60
1.63	99	1.66

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fourth digit (ring finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.90

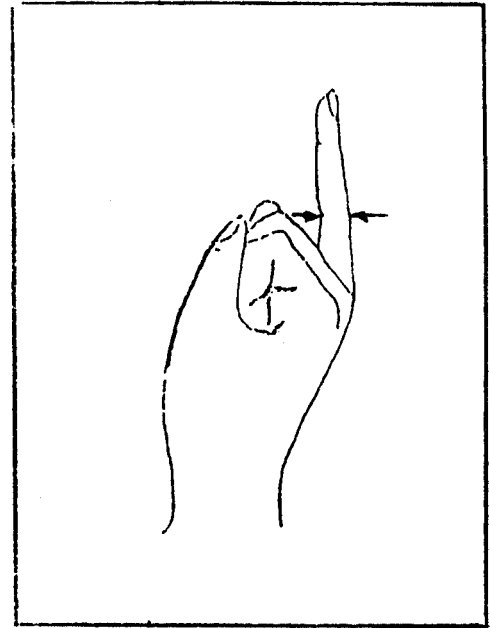
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.63	Median	1.63	Mean	1.67	Median	1.67
Standev	0.13	C of Var	7.71	Standev	0.13	C of Var	7.97
Kurtosis	1.45	Skewness	-0.18	Kurtosis	0.89	Skewness	-0.14
Minimum	1.20	Maximum	2.10	Minimum	1.25	Maximum	2.10

Percentiles

Percentiles		
1.34	1	1.36
1.40	3	1.42
1.43	5	1.45
1.47	10	1.50
1.55	25	1.58
1.63	50	1.67
1.72	75	1.76
1.80	90	1.84
1.84	95	1.89
1.87	97	1.92
1.93	99	1.98

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fourth digit (ring finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.90

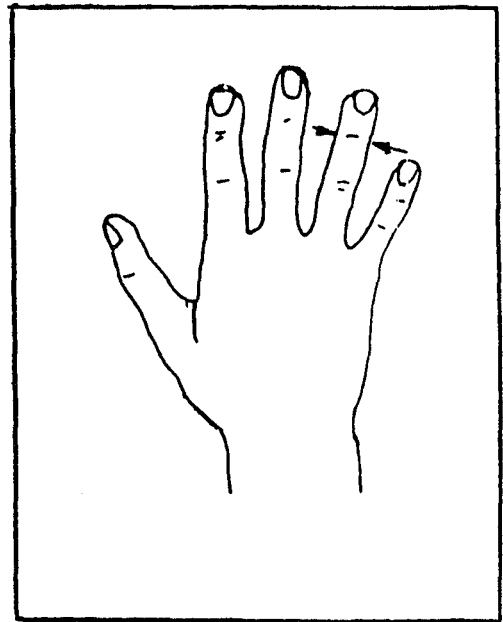
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.51	Median	1.51	Mean	1.56	Median	1.55
Standev	0.16	C of Var	10.53	Standev	0.17	C of Var	10.80
Kurtosis	4.80	Skewness	1.21	Kurtosis	4.87	Skewness	1.29
Minimum	1.15	Maximum	2.45	Minimum	1.20	Maximum	2.40

Percentiles

1.14	1	1.17
1.21	3	1.24
1.25	5	1.28
1.31	10	1.34
1.40	25	1.44
1.51	50	1.56
1.62	75	1.67
1.71	90	1.77
1.77	95	1.83
1.81	97	1.87
1.88	99	1.95

DIGIT 4 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fourth digit (ring finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.90

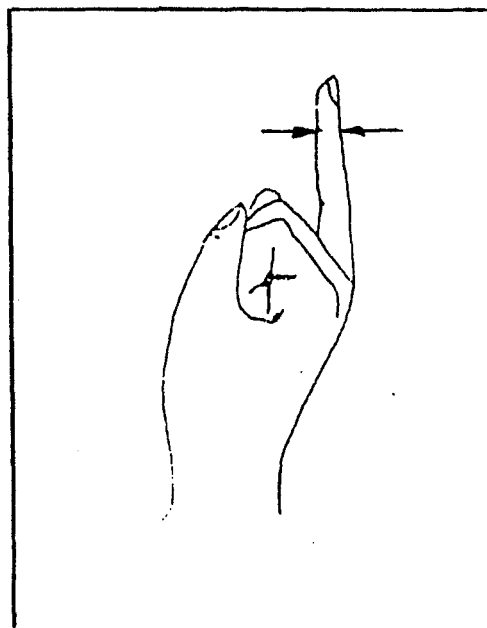
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.41	Median	1.41	Mean	1.43	Median	1.43
Standev	0.11	C of Var	7.86	Standev	0.12	C of Var	8.03
Kurtosis	0.41	Skewness	-0.01	Kurtosis	0.45	Skewness	0.05
Minimum	1.10	Maximum	1.80	Minimum	1.10	Maximum	1.80

Percentiles

1.15	1	1.17
1.20	3	1.22
1.23	5	1.24
1.27	10	1.29
1.34	25	1.36
1.41	50	1.43
1.49	75	1.51
1.55	90	1.58
1.59	95	1.62
1.62	97	1.65
1.67	99	1.70

DIGIT 4 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fourth digit (ring finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.91

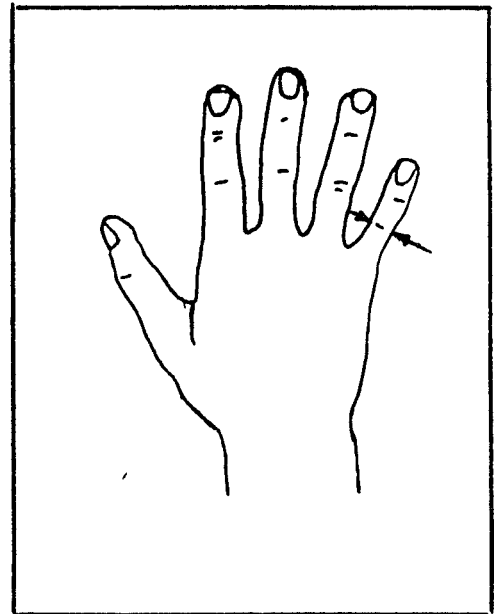
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.21	Median	1.20	Mean	1.24	Median	1.23
Standev	0.13	C of Var	10.56	Standev	0.13	C of Var	10.77
Kurtosis	2.25	Skewness	0.51	Kurtosis	4.98	Skewness	1.17
Minimum	0.80	Maximum	1.80	Minimum	0.90	Maximum	2.00

Percentiles

0.91	1	0.93
0.97	3	0.99
1.00	5	1.02
1.05	10	1.07
1.13	25	1.15
1.21	50	1.24
1.30	75	1.33
1.38	90	1.42
1.42	95	1.46
1.45	97	1.50
1.51	99	1.56

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fifth digit (little finger) was placed flat down on the measuring table on its palmar surface, with its lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.87

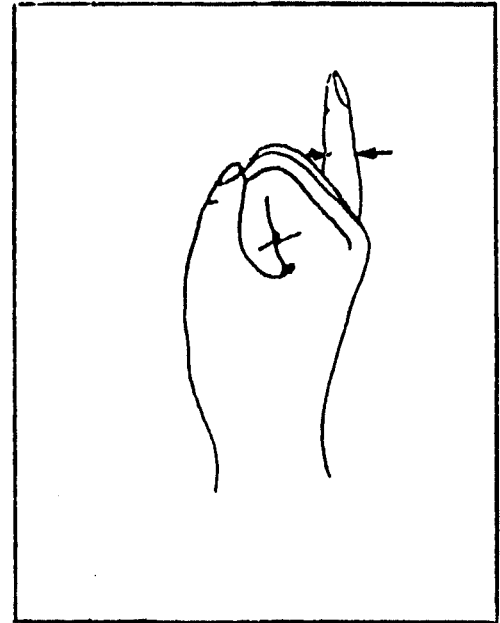
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.43	Median	1.42	Mean	1.44	Median	1.45
Standev	0.13	C of Var	8.82	Standev	0.13	C of Var	8.96
Kurtosis	-0.13	Skewness	0.07	Kurtosis	0.03	Skewness	0.21
Minimum	1.10	Maximum	1.75	Minimum	1.10	Maximum	1.85

Percentiles

1.13	1	1.14
1.19	3	1.20
1.22	5	1.23
1.27	10	1.27
1.34	25	1.35
1.43	50	1.44
1.51	75	1.53
1.59	90	1.61
1.64	95	1.65
1.67	97	1.68
1.72	99	1.74

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fifth digit (little finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.89

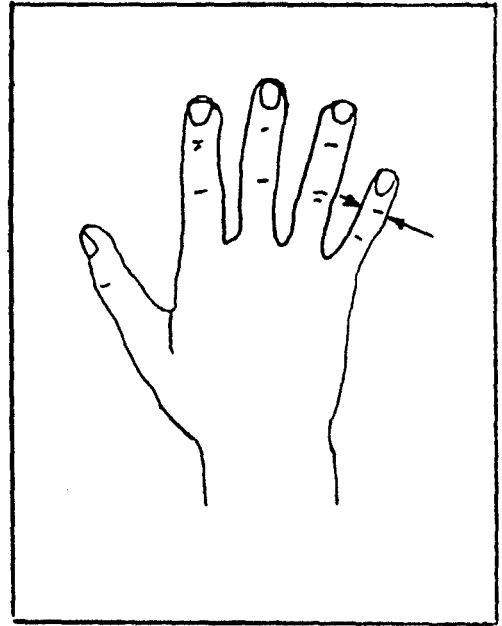
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.34	Median	1.34	Mean	1.38	Median	1.38
Standev	0.12	C of Var	9.25	Standev	0.14	C of Var	10.01
Kurtosis	0.51	Skewness	0.36	Kurtosis	-0.11	Skewness	0.30
Minimum	1.05	Maximum	1.80	Minimum	1.05	Maximum	1.75

Percentiles

1.05	1	1.06
1.11	3	1.12
1.14	5	1.15
1.18	10	1.20
1.26	25	1.29
1.34	50	1.38
1.42	75	1.47
1.50	90	1.56
1.54	95	1.61
1.57	97	1.64
1.63	99	1.70

DIGIT 5 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fifth digit (little finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.83

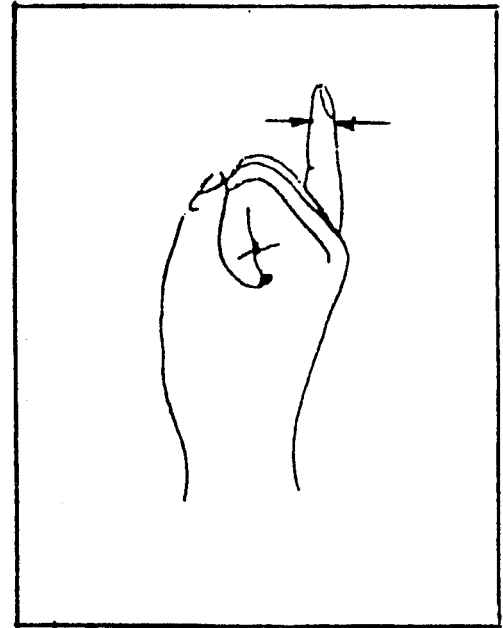
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.25	Median	1.25	Mean	1.27	Median	1.27
Standev	0.09	C of Var	7.57	Standev	0.09	C of Var	7.32
Kurtosis	1.27	Skewness	0.59	Kurtosis	0.55	Skewness	0.32
Minimum	1.00	Maximum	1.60	Minimum	1.00	Maximum	1.60

Percentiles

1.03	1	1.05
1.08	3	1.10
1.10	5	1.12
1.13	10	1.15
1.19	25	1.21
1.25	50	1.27
1.32	75	1.33
1.38	90	1.39
1.41	95	1.42
1.43	97	1.44
1.48	99	1.49

DIGIT 5 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fifth digit (little finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.85

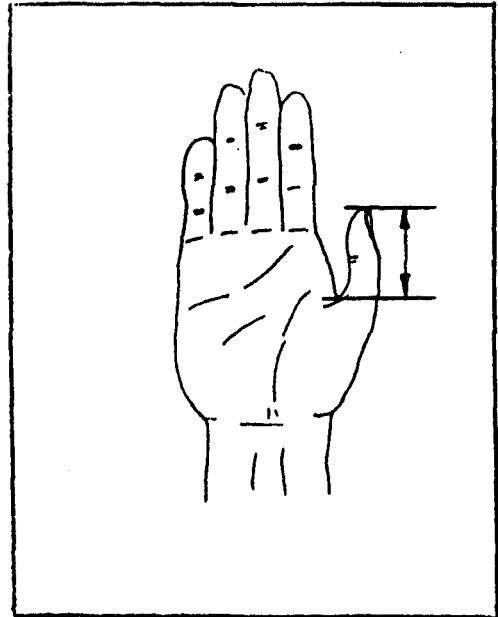
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.14	Median	1.16	Mean	1.17	Median	1.17
Standev	0.11	C of Var	9.52	Standev	0.11	C of Var	9.46
Kurtosis	0.18	Skewness	-0.27	Kurtosis	0.47	Skewness	0.31
Minimum	0.75	Maximum	1.40	Minimum	0.85	Maximum	1.60

Percentiles

0.89	1	0.91
0.94	3	0.96
0.97	5	0.99
1.01	10	1.03
1.07	25	1.10
1.14	50	1.17
1.22	75	1.25
1.28	90	1.32
1.32	95	1.36
1.35	97	1.38
1.40	99	1.43

POLLUX LENGTH

The length of the subject's pollux (thumb) from the midpoint of the tip of her pollux along the axis of her pollux to the level of crotch 1, was obtained from previous measurements of crotch 1 and the pollux to wrist crease length.



Correlation between left and right is 0.72

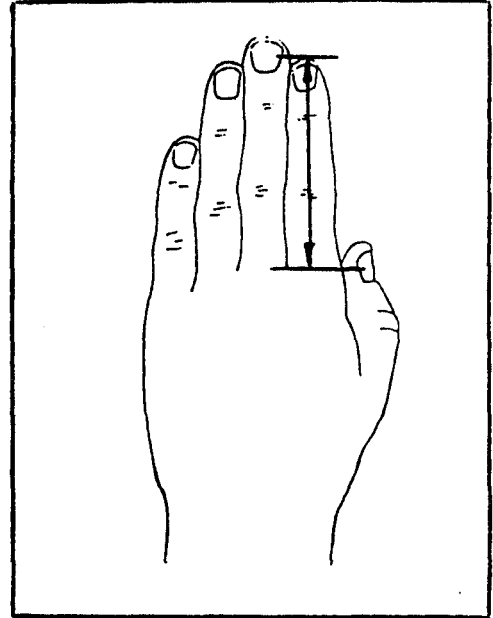
<u>LEFT</u>				<u>RIGHT</u>			
Mean	4.65	Median	4.67	Mean	4.73	Median	4.74
Standev	0.38	C of Var	8.17	Standev	0.41	C of Var	8.69
Kurtosis	2.40	Skewness	-0.72	Kurtosis	1.43	Skewness	-0.10
Minimum	2.85	Maximum	5.55	Minimum	3.20	Maximum	6.40

Percentiles

3.77	1	3.77
3.94	3	3.95
4.03	5	4.05
4.17	10	4.20
4.40	25	4.45
4.65	50	4.73
4.91	75	5.00
5.14	90	5.25
5.28	95	5.40
5.37	97	5.50
5.54	99	5.68

DIGIT 2 LENGTH

The length of the subject's second digit (index finger) from the midpoint of the tip of her second digit along the axis of her finger to the level of crotch 2, was obtained from previous measurements of crotch 2 and second digit to wrist crease length.



Correlation between left and right is 0.77

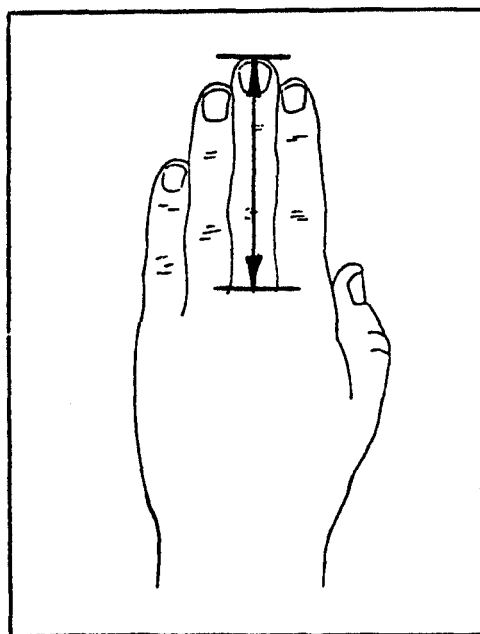
<u>LEFT</u>				<u>RIGHT</u>			
Mean	6.73	Median	6.72	Mean	6.72	Median	6.70
Standev	0.44	C of Var	6.47	Standev	0.44	C of Var	6.48
Kurtosis	0.67	Skewness	0.11	Kurtosis	2.45	Skewness	-0.26
Minimum	5.30	Maximum	8.35	Minimum	4.45	Maximum	7.95

Percentiles

5.72	1	5.71
5.91	3	5.91
6.01	5	6.01
6.17	10	6.17
6.43	25	6.43
6.73	50	6.72
7.02	75	7.02
7.29	90	7.28
7.44	95	7.44
7.55	97	7.54
7.74	99	7.74

DIGIT 3 LENGTH

The length of the subject's third digit (middle finger) from the midpoint of the tip of her third digit along the axis of her finger to the level of crotch 2, was obtained from previous measurements of crotch 2 and third digit to wrist crease length.



Correlation between left and right is 0.78

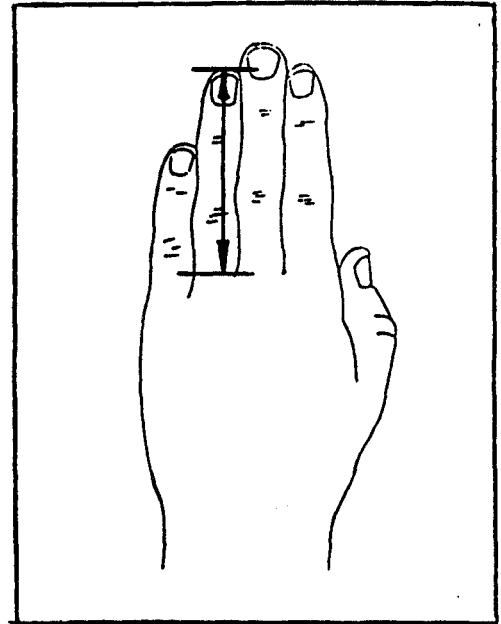
<u>LEFT</u>				<u>RIGHT</u>			
Mean	7.67	Median	7.67	Mean	7.64	Median	7.63
Standev	0.46	C of Var	5.99	Standev	0.46	C of Var	6.01
Kurtosis	0.48	Skewness	0.03	Kurtosis	2.01	Skewness	-0.36
Minimum	6.40	Maximum	9.20	Minimum	5.50	Maximum	8.95

Percentiles

6.60	1	6.58
6.81	3	6.78
6.91	5	6.89
7.08	10	7.05
7.36	25	7.33
7.67	50	7.64
7.98	75	7.95
8.26	90	8.23
8.42	95	8.40
8.53	97	8.51
8.74	99	8.71

DIGIT 4 LENGTH

The length of the subject's fourth digit (ring finger) from the midpoint of the tip of her fourth digit along the axis of her finger to the level of crotch 3, was obtained from previous measurements of crotch 3 and fourth digit to wrist crease length.



Correlation between left and right is 0.84

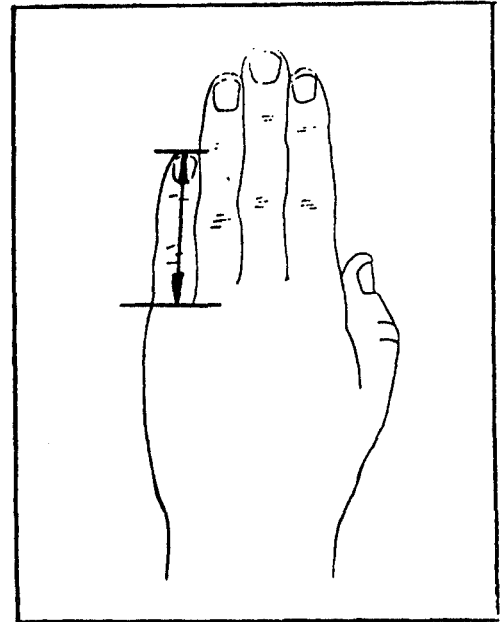
<u>LEFT</u>				<u>RIGHT</u>			
Mean	6.64	Median	6.65	Mean	6.63	Median	6.63
Standev	0.43	C of Var	6.52	Standev	0.41	C of Var	6.22
Kurtosis	1.29	Skewness	0.07	Kurtosis	0.76	Skewness	0.01
Minimum	5.10	Maximum	8.35	Minimum	5.45	Maximum	8.30

Percentiles

5.63	1	5.67
5.82	3	5.85
5.92	5	5.95
6.08	10	6.10
6.35	25	6.35
6.64	50	6.63
6.93	75	6.90
7.19	90	7.16
7.35	95	7.30
7.45	97	7.40
7.64	99	7.59

DIGIT 5 LENGTH

The length of the subject's fifth digit (little finger) from the midpoint of the tip of her fifth digit along the axis of her finger to the level of crotch 4, was obtained from previous measurements of crotch 4 and fifth digit to wrist crease length.



Correlation between left and right is 0.73

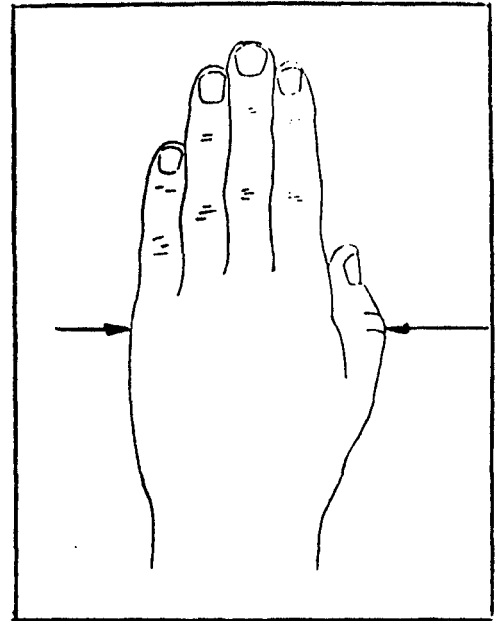
<u>LEFT</u>				<u>RIGHT</u>			
Mean	5.03	Median	5.04	Mean	4.99	Median	4.99
Standev	0.41	C of Var	8.21	Standev	0.43	C of Var	8.65
Kurtosis	0.66	Skewness	0.01	Kurtosis	2.30	Skewness	0.65
Minimum	3.85	Maximum	6.60	Minimum	3.85	Maximum	7.15

Percentiles

4.07	1	3.99
4.25	3	4.18
4.35	5	4.28
4.50	10	4.44
4.75	25	4.70
5.03	50	4.99
5.31	75	5.29
5.56	90	5.55
5.71	95	5.70
5.81	97	5.81
5.99	99	6.00

HAND BREADTH AT POLLUX

The subject's extended hand was placed palm flat down on the measuring table, more or less parallel to the "baseline", with her fingers together and the medial side of her pollux (thumb) held against the perspex block. The breadth of the subject's hand was then measured to the lateral side of the metacarpal-phalangeal joint of digit 5 (little finger).



Correlation between left and right is 0.76

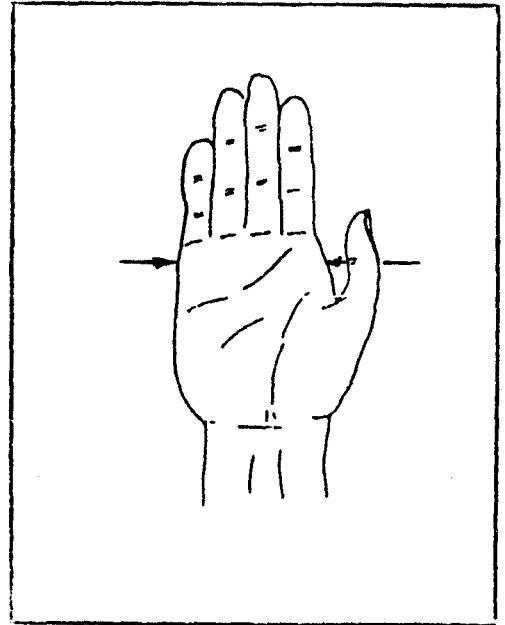
<u>LEFT</u>				<u>RIGHT</u>			
Mean	9.13	Median	9.14	Mean	9.22	Median	9.22
Standev	0.44	C of Var	4.82	Standev	0.48	C of Var	5.21
Kurtosis	0.38	Skewness	-0.11	Kurtosis	1.72	Skewness	-0.43
Minimum	7.60	Maximum	10.30	Minimum	7.05	Maximum	10.65

Percentiles

8.11	1	8.10
8.31	3	8.31
8.41	5	8.43
8.57	10	8.60
8.84	25	8.89
9.13	50	9.22
9.43	75	9.54
9.70	90	9.83
9.86	95	10.01
9.96	97	10.12
10.16	99	10.33

HAND BREADTH AT METACARPALE

The subject's extended hand was placed palm flat down on the measuring table, more or less parallel to the "baseline", with her fingers together and her pollux (thumb) abducted. The subject was then instructed to place the medial side of her second digit (index finger) against the perspex insert, and the breadth of her hand across the metacarpal-phalangeal joints of digits 2 to 5 was measured.



Correlation between left and right is 0.82

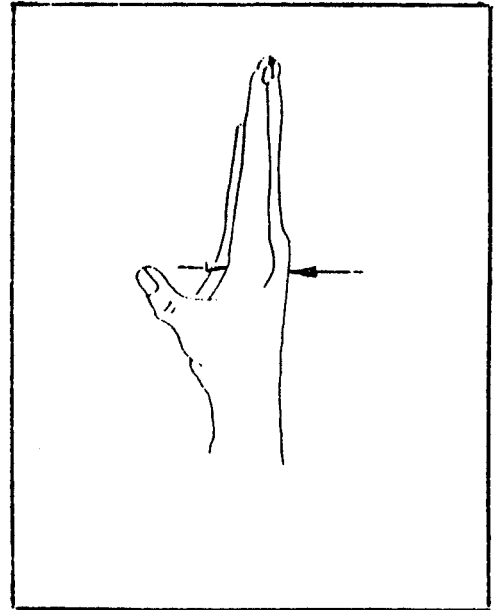
<u>LEFT</u>				<u>RIGHT</u>			
Mean	7.62	Median	7.60	Mean	7.77	Median	7.74
Standev	0.35	C of Var	4.54	Standev	0.36	C of Var	4.60
Kurtosis	0.29	Skewness	0.16	Kurtosis	0.59	Skewness	0.18
Minimum	6.60	Maximum	8.80	Minimum	6.80	Maximum	9.05

Percentiles

6.82	1	6.94
6.97	3	7.09
7.06	5	7.18
7.18	10	7.31
7.39	25	7.53
7.62	50	7.77
7.86	75	8.01
8.07	90	8.22
8.19	95	8.35
8.28	97	8.44
8.43	99	8.60

HAND THICKNESS: METACARPALE III

The palmar surface of the subject's hand was held against the perspex insert, and the maximum thickness to the dorsal side of the metacarpal-phalangeal joint of digit 3 (middle finger) was measured.



Correlation between left and right is 0.73

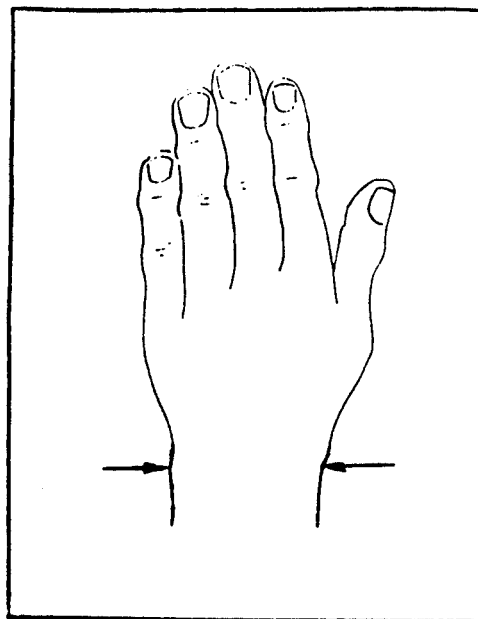
<u>LEFT</u>				<u>RIGHT</u>			
Mean	2.78	Median	2.77	Mean	2.82	Median	2.79
Standev	0.26	C of Var	9.49	Standev	0.29	C of Var	10.23
Kurtosis	0.80	Skewness	0.52	Kurtosis	2.45	Skewness	0.91
Minimum	2.00	Maximum	3.75	Minimum	1.95	Maximum	4.15

Percentiles

2.17	1	2.15
2.29	3	2.28
2.35	5	2.35
2.45	10	2.45
2.61	25	2.63
2.78	50	2.82
2.96	75	3.02
3.12	90	3.19
3.22	95	3.30
3.28	97	3.37
3.40	99	3.50

WRIST BREADTH

The subject's extended hand was placed palm flat down on the measuring table, with the fingers more or less parallel to the "baseline", and the lateral side of the wrist at the wrist crease was aligned with the "baseline". The maximum breadth of the wrist between the ulnar and radial styliions was then measured.



Correlation between left and right is 0.79

<u>LEFT</u>				<u>RIGHT</u>			
Mean	5.65	Median	5.62	Mean	5.66	Median	5.65
Standev	0.36	C of Var	6.41	Standev	0.34	C of Var	6.04
Kurtosis	0.56	Skewness	0.12	Kurtosis	0.40	Skewness	0.25
Minimum	4.45	Maximum	6.75	Minimum	4.70	Maximum	6.75

Percentiles

4.81	1	4.87
4.97	3	5.02
5.05	5	5.10
5.19	10	5.22
5.41	25	5.43
5.65	50	5.66
5.89	75	5.89
6.11	90	6.10
6.24	95	6.22
6.33	97	6.30
6.49	99	6.46

Correlations on Female Data

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
F1	1.00	0.85	0.77	0.73	0.65	0.76	0.73	0.66	0.50	0.82	0.73	0.81
F2		1.00	0.95	0.90	0.82	0.61	0.79	0.77	0.63	0.68	0.80	0.91
F3			1.00	0.97	0.88	0.53	0.79	0.80	0.70	0.60	0.77	0.88
F4				1.00	0.93	0.49	0.75	0.79	0.72	0.54	0.72	0.83
F5					1.00	0.43	0.68	0.77	0.75	0.50	0.65	0.76
F6						1.00	0.71	0.60	0.42	0.83	0.64	0.69
F7							1.00	0.91	0.78	0.70	0.76	0.82
F8								1.00	0.89	0.60	0.74	0.79
F9									1.00	0.43	0.53	0.64
F10										1.00	0.70	0.77
F11											1.00	0.88
F12												1.00

LEFT

	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24
F1	0.71	0.74	0.66	0.69	0.54	0.58	0.22	0.13	0.26	0.21	0.24	0.17
F2	0.83	0.87	0.80	0.84	0.66	0.72	0.31	0.21	0.37	0.31	0.32	0.29
F3	0.88	0.93	0.85	0.91	0.72	0.79	0.33	0.27	0.38	0.31	0.32	0.31
F4	0.84	0.90	0.86	0.93	0.73	0.81	0.33	0.29	0.38	0.32	0.34	0.34
F5	0.78	0.82	0.83	0.87	0.79	0.87	0.34	0.29	0.36	0.29	0.31	0.32
F6	0.63	0.60	0.55	0.53	0.47	0.48	0.14	0.05	0.18	0.10	0.19	0.09
F7	0.85	0.82	0.81	0.78	0.71	0.71	0.32	0.23	0.39	0.35	0.34	0.29
F8	0.85	0.84	0.87	0.84	0.80	0.80	0.30	0.20	0.33	0.30	0.28	0.30
F9	0.75	0.73	0.80	0.77	0.82	0.79	0.32	0.23	0.30	0.26	0.28	0.28
F10	0.68	0.67	0.61	0.59	0.53	0.54	0.18	0.08	0.26	0.17	0.22	0.10
F11	0.85	0.84	0.81	0.77	0.68	0.69	0.25	0.21	0.33	0.29	0.28	0.19
F12	0.91	0.93	0.86	0.87	0.74	0.79	0.27	0.20	0.36	0.31	0.28	0.23
F13	1.00	0.95	0.93	0.91	0.82	0.83	0.30	0.27	0.38	0.33	0.31	0.27
F14		1.00	0.92	0.95	0.80	0.86	0.29	0.26	0.35	0.33	0.29	0.28
F15			1.00	0.94	0.87	0.88	0.35	0.28	0.37	0.34	0.33	0.30
F16				1.00	0.83	0.90	0.33	0.28	0.36	0.33	0.30	0.31
F17					1.00	0.91	0.34	0.25	0.31	0.29	0.29	0.26
F18						1.00	0.35	0.27	0.34	0.34	0.31	0.31
F19							1.00	0.49	0.70	0.57	0.68	0.58
F20								1.00	0.58	0.55	0.62	0.49
F21									1.00	0.65	0.78	0.63
F22										1.00	0.69	0.70
F23											1.00	0.67
F24												1.00

LEFT

	F25	F26	F27	F28	F29	F30	F31	F32	F33	F34	F35	F36
F1	0.23	0.21	0.17	0.09	0.21	0.11	0.22	0.10	0.17	0.22	0.15	0.13
F2	0.30	0.34	0.27	0.18	0.33	0.21	0.29	0.17	0.26	0.27	0.24	0.19
F3	0.36	0.40	0.30	0.20	0.37	0.27	0.32	0.19	0.28	0.33	0.25	0.18
F4	0.35	0.41	0.30	0.20	0.39	0.30	0.37	0.24	0.32	0.35	0.30	0.22
F5	0.32	0.40	0.30	0.16	0.36	0.28	0.36	0.21	0.35	0.35	0.32	0.22
F6	0.13	0.09	0.09	0.10	0.11	0.03	0.15	0.08	0.07	0.15	0.07	0.12
F7	0.37	0.35	0.32	0.29	0.32	0.26	0.33	0.22	0.25	0.31	0.23	0.21
F8	0.33	0.34	0.25	0.22	0.28	0.26	0.31	0.20	0.26	0.28	0.22	0.16
F9	0.35	0.38	0.29	0.21	0.27	0.30	0.33	0.17	0.26	0.30	0.27	0.16
F10	0.20	0.15	0.17	0.08	0.17	0.06	0.15	0.05	0.10	0.17	0.10	0.07
F11	0.32	0.27	0.25	0.13	0.30	0.21	0.25	0.15	0.25	0.25	0.15	0.10
F12	0.32	0.32	0.25	0.17	0.30	0.20	0.26	0.16	0.25	0.28	0.19	0.14
F13	0.38	0.38	0.31	0.22	0.33	0.27	0.29	0.19	0.28	0.32	0.22	0.14
F14	0.37	0.40	0.28	0.19	0.33	0.29	0.28	0.19	0.28	0.33	0.22	0.13
F15	0.39	0.41	0.32	0.21	0.37	0.34	0.33	0.21	0.32	0.37	0.28	0.17
F16	0.38	0.42	0.27	0.20	0.35	0.31	0.32	0.23	0.30	0.36	0.26	0.17
F17	0.38	0.37	0.29	0.19	0.30	0.29	0.30	0.16	0.31	0.32	0.25	0.11
F18	0.38	0.40	0.28	0.20	0.33	0.31	0.33	0.21	0.36	0.37	0.30	0.16
F19	0.69	0.53	0.68	0.60	0.69	0.46	0.65	0.43	0.60	0.55	0.61	0.44
F20	0.51	0.59	0.62	0.42	0.57	0.51	0.53	0.36	0.56	0.50	0.57	0.37
F21	0.75	0.54	0.72	0.59	0.75	0.53	0.69	0.46	0.64	0.57	0.66	0.48
F22	0.62	0.70	0.68	0.59	0.65	0.63	0.62	0.53	0.63	0.58	0.54	0.49
F23	0.72	0.60	0.82	0.58	0.71	0.58	0.70	0.49	0.63	0.56	0.67	0.52
F24	0.56	0.56	0.65	0.69	0.61	0.53	0.63	0.60	0.55	0.59	0.62	0.59
F25	1.00	0.60	0.76	0.57	0.76	0.57	0.62	0.39	0.65	0.58	0.60	0.42
F26		1.00	0.64	0.57	0.57	0.70	0.54	0.46	0.56	0.51	0.53	0.42
F27			1.00	0.63	0.75	0.63	0.72	0.50	0.66	0.63	0.66	0.53
F28				1.00	0.57	0.55	0.63	0.70	0.53	0.57	0.56	0.58
F29					1.00	0.59	0.74	0.49	0.75	0.63	0.69	0.52
F30						1.00	0.55	0.59	0.53	0.58	0.51	0.45
F31							1.00	0.56	0.67	0.56	0.70	0.52
F32								1.00	0.45	0.55	0.47	0.59
F33									1.00	0.60	0.74	0.49
F34										1.00	0.58	0.64
F35											1.00	0.57
F36												1.00

	F37	F38	F39	F40	F41	F42	F43	F44	F45	WT	LEFT HT
F1	0.64	0.53	0.46	0.46	0.44	0.38	0.30	0.09	0.22	0.25	0.56
F2	0.59	0.70	0.67	0.63	0.55	0.50	0.44	0.16	0.35	0.38	0.67
F3	0.56	0.62	0.75	0.69	0.57	0.53	0.49	0.21	0.39	0.37	0.66
F4	0.55	0.60	0.74	0.76	0.63	0.54	0.49	0.25	0.41	0.38	0.64
F5	0.49	0.54	0.67	0.67	0.70	0.49	0.44	0.25	0.39	0.37	0.62
F6	-.01	0.18	0.10	0.14	0.20	0.20	0.19	0.07	0.11	0.20	0.41
F7	0.28	0.12	0.19	0.22	0.18	0.45	0.38	0.19	0.29	0.37	0.51
F8	0.31	0.19	0.31	0.20	0.20	0.44	0.38	0.18	0.29	0.36	0.50
F9	0.28	0.12	0.29	0.19	0.05	0.39	0.34	0.24	0.32	0.34	0.41
F10	0.27	0.29	0.21	0.23	0.29	0.24	0.20	0.06	0.09	0.24	0.53
F11	0.37	0.41	0.42	0.37	0.40	0.42	0.39	0.06	0.26	0.31	0.56
F12	0.43	0.53	0.53	0.48	0.45	0.46	0.44	0.14	0.30	0.34	0.66
F13	0.34	0.36	0.50	0.43	0.36	0.47	0.45	0.18	0.33	0.37	0.62
F14	0.43	0.46	0.61	0.54	0.45	0.49	0.47	0.20	0.35	0.34	0.65
F15	0.37	0.36	0.50	0.45	0.38	0.47	0.45	0.18	0.33	0.41	0.60
F16	0.44	0.46	0.62	0.59	0.48	0.51	0.48	0.25	0.37	0.35	0.61
F17	0.28	0.25	0.39	0.32	0.31	0.36	0.34	0.18	0.31	0.33	0.55
F18	0.33	0.35	0.49	0.45	0.46	0.46	0.42	0.24	0.34	0.31	0.57
F19	0.17	0.13	0.18	0.22	0.17	0.45	0.46	0.32	0.42	0.41	0.25
F20	0.15	0.08	0.18	0.25	0.18	0.42	0.44	0.30	0.48	0.35	0.15
F21	0.19	0.14	0.19	0.26	0.21	0.52	0.52	0.33	0.46	0.40	0.26
F22	0.20	0.09	0.14	0.19	0.16	0.44	0.48	0.30	0.30	0.37	0.20
F23	0.14	0.11	0.15	0.25	0.17	0.48	0.50	0.27	0.41	0.36	0.21
F24	0.15	0.14	0.17	0.22	0.18	0.39	0.43	0.35	0.36	0.35	0.15
F25	0.19	0.07	0.18	0.21	0.11	0.41	0.48	0.28	0.40	0.38	0.21
F26	0.22	0.14	0.27	0.29	0.19	0.41	0.45	0.36	0.45	0.43	0.21
F27	0.16	0.07	0.15	0.21	0.14	0.42	0.46	0.34	0.42	0.39	0.18
F28	0.03	-.04	0.02	0.08	0.02	0.26	0.32	0.38	0.25	0.29	0.06
F29	0.20	0.16	0.25	0.32	0.25	0.46	0.51	0.32	0.47	0.44	0.26
F30	0.13	0.03	0.15	0.20	0.10	0.37	0.43	0.38	0.41	0.29	0.09
F31	0.15	0.08	0.16	0.26	0.18	0.46	0.49	0.36	0.47	0.41	0.18
F32	0.05	0.02	0.07	0.16	0.13	0.29	0.35	0.34	0.18	0.13	0.06
F33	0.19	0.13	0.18	0.24	0.25	0.45	0.50	0.30	0.45	0.44	0.22
F34	0.17	0.08	0.20	0.27	0.20	0.37	0.44	0.35	0.36	0.31	0.15
F35	0.14	0.12	0.16	0.25	0.19	0.42	0.47	0.37	0.49	0.45	0.19
F36	0.06	0.05	0.07	0.18	0.15	0.30	0.38	0.35	0.33	0.28	0.09
F37	1.00	0.62	0.59	0.55	0.44	0.35	0.24	0.05	0.21	0.15	0.38
F38		1.00	0.83	0.75	0.68	0.29	0.26	0.04	0.23	0.18	0.49
F39			1.00	0.86	0.71	0.38	0.39	0.14	0.32	0.20	0.52
F40				1.00	0.80	0.39	0.38	0.21	0.35	0.23	0.49
F41					1.00	0.31	0.29	0.11	0.24	0.19	0.49
F42						1.00	0.80	0.38	0.48	0.43	0.30
F43							1.00	0.43	0.54	0.45	0.29
F44								1.00	0.36	0.33	0.12
F45									1.00	0.61	0.22
WT										1.00	0.35
HT											1.00

Correlations on Female Data

	RIGHT											
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
F1	1.00	0.82	0.76	0.69	0.61	0.75	0.73	0.66	0.47	0.80	0.72	0.78
F2		1.00	0.94	0.90	0.79	0.62	0.80	0.79	0.62	0.68	0.82	0.91
F3			1.00	0.95	0.85	0.58	0.80	0.81	0.67	0.63	0.78	0.87
F4				1.00	0.92	0.54	0.75	0.81	0.70	0.58	0.77	0.84
F5					1.00	0.49	0.68	0.78	0.72	0.53	0.68	0.76
F6						1.00	0.70	0.66	0.48	0.76	0.67	0.68
F7							1.00	0.89	0.77	0.71	0.71	0.84
F8								1.00	0.87	0.64	0.79	0.84
F9									1.00	0.52	0.61	0.69
F10										1.00	0.75	0.79
F11											1.00	0.90
F12												1.00

	RIGHT											
	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24
F1	0.72	0.72	0.65	0.66	0.56	0.62	0.08	0.08	0.22	0.22	0.15	0.15
F2	0.86	0.89	0.82	0.85	0.69	0.76	0.22	0.21	0.33	0.36	0.30	0.25
F3	0.88	0.92	0.85	0.90	0.73	0.80	0.25	0.28	0.35	0.37	0.31	0.27
F4	0.86	0.90	0.87	0.93	0.77	0.85	0.26	0.31	0.36	0.37	0.32	0.29
F5	0.78	0.81	0.81	0.85	0.80	0.89	0.26	0.30	0.34	0.34	0.30	0.26
F6	0.63	0.61	0.58	0.56	0.50	0.54	0.04	0.06	0.16	0.09	0.09	0.09
F7	0.85	0.82	0.80	0.77	0.72	0.74	0.19	0.18	0.32	0.30	0.24	0.21
F8	0.88	0.85	0.89	0.85	0.83	0.85	0.20	0.20	0.30	0.30	0.23	0.23
F9	0.76	0.72	0.80	0.75	0.86	0.82	0.25	0.24	0.29	0.30	0.27	0.20
F10	0.72	0.69	0.66	0.63	0.57	0.58	0.04	0.07	0.22	0.19	0.18	0.01
F11	0.88	0.87	0.85	0.82	0.73	0.75	0.14	0.16	0.27	0.32	0.24	0.16
F12	0.92	0.94	0.87	0.89	0.75	0.81	0.18	0.18	0.31	0.34	0.25	0.16
F13	1.00	0.96	0.94	0.92	0.83	0.84	0.16	0.23	0.31	0.33	0.27	0.21
F14		1.00	0.93	0.95	0.81	0.86	0.21	0.25	0.34	0.38	0.29	0.25
F15			1.00	0.95	0.90	0.90	0.24	0.27	0.35	0.38	0.32	0.24
F16				1.00	0.85	0.91	0.25	0.28	0.36	0.37	0.31	0.24
F17					1.00	0.93	0.27	0.27	0.34	0.36	0.31	0.24
F18						1.00	0.25	0.27	0.33	0.33	0.29	0.23
F19							1.00	0.57	0.69	0.55	0.67	0.59
F20								1.00	0.62	0.53	0.64	0.52
F21									1.00	0.62	0.74	0.58
F22										1.00	0.62	0.61
F23											1.00	0.60
F24												1.00

	RIGHT											
	F25	F26	F27	F28	F29	F30	F31	F32	F33	F34	F35	F36
F1	0.13	0.21	0.15	0.09	0.18	0.12	0.19	0.07	0.13	0.13	0.10	0.07
F2	0.26	0.34	0.31	0.13	0.33	0.19	0.26	0.11	0.27	0.25	0.20	0.14
F3	0.30	0.38	0.33	0.14	0.36	0.22	0.29	0.14	0.29	0.28	0.21	0.16
F4	0.29	0.39	0.33	0.14	0.39	0.25	0.32	0.18	0.32	0.32	0.23	0.19
F5	0.27	0.35	0.32	0.12	0.35	0.20	0.33	0.16	0.34	0.29	0.27	0.17
F6	0.08	0.13	0.11	0.07	0.09	0.06	0.15	0.06	0.06	0.09	0.07	0.08
F7	0.25	0.30	0.25	0.17	0.27	0.18	0.28	0.10	0.20	0.20	0.17	0.15
F8	0.26	0.32	0.23	0.10	0.27	0.21	0.26	0.13	0.24	0.22	0.17	0.13
F9	0.32	0.35	0.29	0.10	0.27	0.22	0.24	0.09	0.23	0.24	0.20	0.09
F10	0.13	0.21	0.17	0.02	0.15	0.09	0.14	0.00	0.09	0.10	0.04	0.02
F11	0.24	0.28	0.25	0.07	0.26	0.18	0.22	0.09	0.22	0.25	0.12	0.10
F12	0.24	0.33	0.26	0.09	0.27	0.18	0.23	0.09	0.24	0.23	0.15	0.11
F13	0.29	0.35	0.27	0.10	0.30	0.23	0.22	0.09	0.24	0.28	0.16	0.12
F14	0.31	0.39	0.31	0.12	0.33	0.25	0.25	0.14	0.28	0.30	0.18	0.16
F15	0.35	0.38	0.33	0.12	0.35	0.26	0.27	0.14	0.28	0.33	0.20	0.17
F16	0.31	0.40	0.31	0.11	0.36	0.27	0.27	0.17	0.30	0.32	0.21	0.16
F17	0.36	0.37	0.34	0.12	0.33	0.24	0.29	0.16	0.30	0.32	0.24	0.15
F18	0.30	0.35	0.32	0.09	0.31	0.24	0.29	0.16	0.29	0.28	0.23	0.12
F19	0.66	0.47	0.65	0.53	0.65	0.44	0.64	0.44	0.54	0.49	0.59	0.47
F20	0.56	0.57	0.60	0.37	0.56	0.47	0.56	0.35	0.54	0.47	0.52	0.35
F21	0.73	0.52	0.71	0.53	0.72	0.52	0.65	0.42	0.58	0.50	0.57	0.45
F22	0.60	0.64	0.60	0.46	0.62	0.57	0.58	0.42	0.60	0.52	0.50	0.37
F23	0.71	0.53	0.81	0.50	0.65	0.53	0.66	0.44	0.55	0.52	0.60	0.43
F24	0.57	0.50	0.61	0.63	0.57	0.53	0.59	0.59	0.47	0.53	0.58	0.56
F25	1.00	0.53	0.72	0.54	0.72	0.54	0.57	0.39	0.57	0.51	0.55	0.43
F26		1.00	0.58	0.40	0.53	0.61	0.42	0.41	0.50	0.45	0.42	0.34
F27			1.00	0.55	0.68	0.56	0.69	0.48	0.56	0.58	0.61	0.48
F28				1.00	0.53	0.53	0.57	0.67	0.43	0.55	0.48	0.59
F29					1.00	0.53	0.72	0.47	0.66	0.54	0.60	0.48
F30						1.00	0.47	0.64	0.44	0.58	0.42	0.49
F31							1.00	0.54	0.64	0.50	0.70	0.48
F32								1.00	0.39	0.53	0.42	0.63
F33									1.00	0.54	0.66	0.41
F34										1.00	0.50	0.60
F35											1.00	0.51
F36												1.00

	RIGHT										
	F37	F38	F39	F40	F41	F42	F43	F44	F45	WT	HT
F1	0.66	0.48	0.42	0.41	0.39	0.29	0.29	0.09	0.22	0.21	0.56
F2	0.53	0.68	0.64	0.61	0.49	0.47	0.44	0.18	0.36	0.36	0.67
F3	0.48	0.59	0.73	0.67	0.52	0.51	0.49	0.19	0.38	0.33	0.65
F4	0.44	0.58	0.71	0.75	0.59	0.51	0.49	0.22	0.39	0.33	0.63
F5	0.36	0.48	0.62	0.65	0.68	0.47	0.43	0.22	0.38	0.30	0.60
F6	-.01	0.19	0.16	0.15	0.21	0.20	0.19	0.11	0.14	0.19	0.37
F7	0.30	0.12	0.18	0.23	0.17	0.38	0.36	0.21	0.29	0.32	0.52
F8	0.24	0.22	0.32	0.22	0.21	0.41	0.36	0.19	0.31	0.33	0.51
F9	0.17	0.09	0.24	0.18	-.02	0.36	0.31	0.17	0.29	0.30	0.43
F10	0.33	0.26	0.23	0.24	0.21	0.18	0.20	0.06	0.16	0.20	0.51
F11	0.33	0.50	0.48	0.39	0.33	0.35	0.35	0.11	0.30	0.32	0.56
F12	0.39	0.50	0.48	0.45	0.37	0.41	0.39	0.18	0.34	0.34	0.64
F13	0.36	0.40	0.48	0.43	0.33	0.43	0.40	0.17	0.32	0.32	0.59
F14	0.38	0.49	0.58	0.53	0.41	0.48	0.46	0.19	0.37	0.31	0.62
F15	0.32	0.38	0.49	0.45	0.32	0.44	0.42	0.17	0.32	0.33	0.57
F16	0.36	0.48	0.60	0.59	0.44	0.47	0.47	0.21	0.39	0.31	0.60
F17	0.26	0.28	0.40	0.34	0.25	0.37	0.35	0.16	0.32	0.30	0.52
F18	0.31	0.37	0.48	0.46	0.42	0.41	0.40	0.19	0.36	0.26	0.55
F19	0.07	0.14	0.21	0.20	0.11	0.44	0.47	0.30	0.46	0.36	0.18
F20	0.06	0.12	0.25	0.28	0.18	0.45	0.50	0.28	0.46	0.32	0.10
F21	0.16	0.16	0.23	0.27	0.18	0.45	0.51	0.30	0.47	0.40	0.23
F22	0.23	0.22	0.28	0.28	0.18	0.41	0.45	0.26	0.41	0.38	0.24
F23	0.12	0.20	0.24	0.28	0.14	0.45	0.50	0.27	0.42	0.36	0.22
F24	0.12	0.17	0.19	0.22	0.17	0.40	0.37	0.34	0.41	0.32	0.09
F25	0.10	0.13	0.21	0.20	0.06	0.39	0.47	0.24	0.41	0.36	0.15
F26	0.17	0.20	0.29	0.29	0.15	0.38	0.38	0.20	0.40	0.37	0.19
F27	0.11	0.20	0.26	0.30	0.16	0.43	0.46	0.30	0.45	0.37	0.20
F28	0.06	0.01	0.04	0.12	0.07	0.23	0.28	0.34	0.33	0.25	0.04
F29	0.18	0.21	0.29	0.33	0.22	0.42	0.49	0.29	0.49	0.42	0.25
F30	0.10	0.08	0.16	0.17	0.06	0.38	0.42	0.36	0.43	0.26	0.07
F31	0.12	0.09	0.16	0.23	0.21	0.41	0.46	0.32	0.49	0.38	0.15
F32	0.04	0.06	0.12	0.15	0.14	0.28	0.32	0.35	0.29	0.13	0.03
F33	0.12	0.20	0.25	0.26	0.24	0.40	0.47	0.32	0.50	0.45	0.22
F34	0.10	0.16	0.23	0.29	0.17	0.36	0.38	0.31	0.45	0.30	0.14
F35	0.08	0.13	0.16	0.19	0.18	0.38	0.36	0.28	0.49	0.41	0.14
F36	0.01	0.05	0.11	0.18	0.15	0.35	0.33	0.30	0.38	0.27	0.08
F37	1.00	0.52	0.45	0.45	0.35	0.21	0.22	0.01	0.16	0.09	0.43
F38		1.00	0.81	0.71	0.60	0.31	0.29	0.04	0.26	0.20	0.47
F39			1.00	0.83	0.64	0.40	0.41	0.08	0.30	0.18	0.48
F40				1.00	0.75	0.39	0.42	0.16	0.29	0.19	0.47
F41					1.00	0.31	0.30	0.15	0.24	0.12	0.41
F42						1.00	0.75	0.20	0.55	0.43	0.37
F43							1.00	0.34	0.57	0.41	0.34
F44								1.00	0.35	0.29	0.12
F45									1.00	0.58	0.33
WT										1.00	0.35
HT											1.00

FEMALESummary Statistics

	<u>Median</u>	<u>Mean</u>	<u>Standev</u>	<u>Minimum</u>	<u>Maximum</u>
Age (years)	32.0	33.7	11.9	16.0	63.0
Weight (Kg)	58.6	60.1	9.5	39.5	105.0
Height (cm)	161.9	161.5	5.8	140.0	179.0

Preferred Hand

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth @ Pollux	Hand Thickness	Wrist Breadth
Left Handed	28	L	17.65	1.77	1.87	9.19	2.88	5.69
		R	17.53	1.76	1.86	9.23	2.91	5.73
Right Handed	272	L	17.40	1.77	1.88	9.13	2.77	5.65
		R	17.40	1.82	1.91	9.22	2.82	5.65

Occupation

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth @ Pollux	Hand Thickness	Wrist Breadth
Typing	194	L	17.48	1.76	1.88	9.14	2.79	5.64
		R	17.44	1.80	1.90	9.20	2.84	5.66
Other Light work	106	L	17.32	1.79	1.88	9.12	2.78	5.66
		R	17.36	1.84	1.92	9.24	2.80	5.67

Age

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth @ Pollux	Hand Thickness	Wrist Breadth
16-30yrs.	142	L	17.34	1.73	1.82	9.04	2.75	5.53
		R	17.33	1.76	1.85	9.11	2.79	5.58
31-40yrs.	69	L	17.52	1.75	1.87	9.11	2.75	5.69
		R	17.50	1.81	1.90	9.21	2.79	5.61
41-50yrs.	55	L	17.44	1.82	1.95	9.27	2.83	5.72
		R	17.42	1.86	1.98	9.36	2.88	5.76
51-65yrs.	34	L	17.54	1.90	1.99	9.38	2.93	5.96
		R	17.61	1.97	2.04	9.45	2.96	5.93

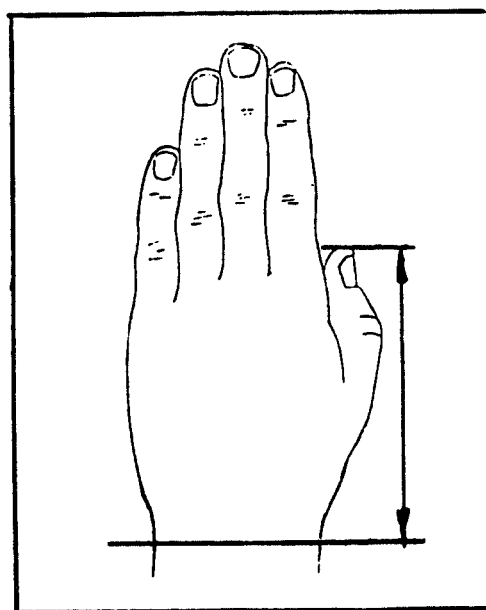
FEMALE 2

Geographical Location

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth & Pollux	Hand Thickness	Wrist Breadth
Sheffield	71	L	17.56	1.84	1.87	9.17	2.79	5.81
		R	17.65	1.91	1.94	9.40	2.77	5.72
Merseyside	44	L	17.35	1.76	1.83	9.08	2.73	5.59
		R	17.37	1.82	1.88	9.19	2.74	5.59
South Wales	5	L	17.55	1.71	1.89	9.07	2.69	5.67
		R	17.48	1.82	1.92	9.23	2.77	5.64
Nottingham	9	L	16.87	1.78	1.82	9.13	2.77	5.74
		R	16.94	1.87	1.94	9.08	2.68	5.64
Birmingham	6	L	17.12	1.75	1.84	9.13	2.72	5.53
		R	17.19	1.77	1.86	9.13	2.78	5.55
North London	58	L	17.47	1.72	1.81	9.09	2.77	5.58
		R	17.43	1.74	1.86	9.15	2.85	5.54
Greater Manchester	34	L	17.49	1.83	1.91	9.14	2.74	5.63
		R	17.51	1.83	1.92	9.24	2.74	5.71
Bedfordshire	120	L	17.43	1.78	1.92	9.17	2.83	5.73
		R	17.40	1.81	1.94	9.23	2.89	5.69

POLLUX LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of his pollux (thumb) to his wrist crease.



Correlation between left and right is 0.83

LEFT

Mean 11.85 Median 11.82
 Standev 0.70 C of Var 5.94
 Kurtosis 0.24 Skewness -0.02
 Minimum 9.55 Maximum 13.65

RIGHT

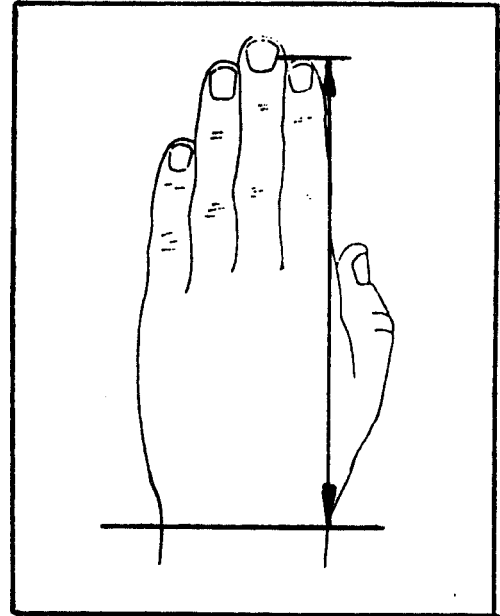
Mean 11.85 Median 11.84
 Standev 0.70 C of Var 5.90
 Kurtosis -0.27 Skewness -0.01
 Minimum 9.95 Maximum 13.65

Percentiles

10.21	1	10.23
10.52	3	10.54
10.69	5	10.70
10.95	10	10.96
11.37	25	11.38
11.85	50	11.85
12.32	75	12.32
12.75	90	12.75
13.01	95	13.00
13.17	97	13.17
13.49	99	13.48

DIGIT 2 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of his second digit (index finger) to his wrist crease.



Correlation between left and right is 0.91

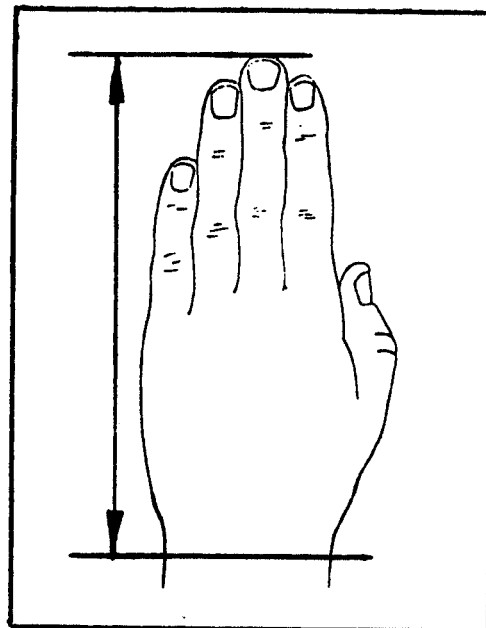
<u>LEFT</u>				<u>RIGHT</u>			
Mean	17.97	Median	18.00	Mean	17.88	Median	17.92
Standev	0.83	C of Var	4.60	Standev	0.83	C of Var	4.64
Kurtosis	0.23	Skewness	-0.12	Kurtosis	0.10	Skewness	-0.17
Minimum	15.50	Maximum	20.25	Minimum	15.45	Maximum	20.45

Percentiles

16.05	1	15.95
16.42	3	16.31
16.62	5	16.51
16.92	10	16.81
17.42	25	17.32
17.97	50	17.88
18.53	75	18.44
19.03	90	18.94
19.33	95	19.24
19.53	97	19.44
19.90	99	19.81

DIGIT 3 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of his third digit (middle finger) to his wrist crease.



Correlation between left and right is 0.91

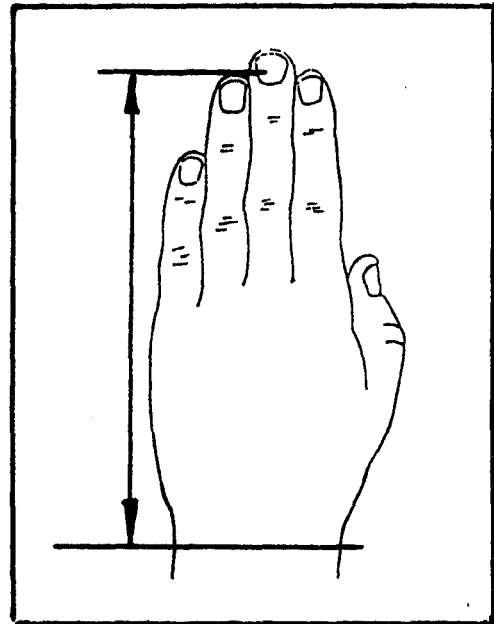
<u>LEFT</u>				<u>RIGHT</u>			
Mean	19.11	Median	19.16	Mean	19.01	Median	19.05
Standev	0.83	C of Var	4.36	Standev	0.83	C of Var	4.35
Kurtosis	0.28	Skewness	-0.05	Kurtosis	0.18	Skewness	-0.09
Minimum	16.55	Maximum	21.90	Minimum	16.60	Maximum	22.00

Percentiles

17.17	1	17.09
17.54	3	17.45
17.74	5	17.65
18.04	10	17.95
18.55	25	18.45
19.11	50	19.01
19.67	75	19.57
20.18	90	20.07
20.48	95	20.37
20.67	97	20.56
21.05	99	20.93

DIGIT 4 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of his fourth digit (ring finger) to his wrist crease.



Correlation between left and right is 0.89

LEFT

Mean 18.00 Median 18.05
 Standev 0.82 C of Var 4.58
 Kurtosis 0.25 Skewness -0.15
 Minimum 15.60 Maximum 20.65

RIGHT

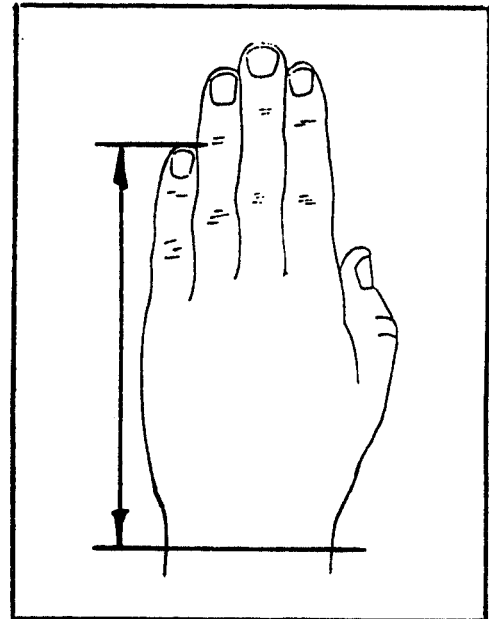
Mean 17.93 Median 17.98
 Standev 0.80 C of Var 4.46
 Kurtosis 0.16 Skewness -0.15
 Minimum 15.40 Maximum 20.40

Percentiles

16.08	1	16.07
16.44	3	16.42
16.64	5	16.61
16.94	10	16.90
17.44	25	17.39
18.00	50	17.93
18.55	75	18.47
19.05	90	18.95
19.35	95	19.25
19.55	97	19.43
19.91	99	19.79

DIGIT 5 LENGTH TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". A measurement was then taken from the midpoint of the tip of his fifth digit (little finger) to his wrist crease.



Correlation between left and right is 0.82

LEFT

Mean 15.17 Median 15.20
 Standev 0.78 C of Var 5.14
 Kurtosis 0.14 Skewness -0.19
 Minimum 12.70 Maximum 17.15

RIGHT

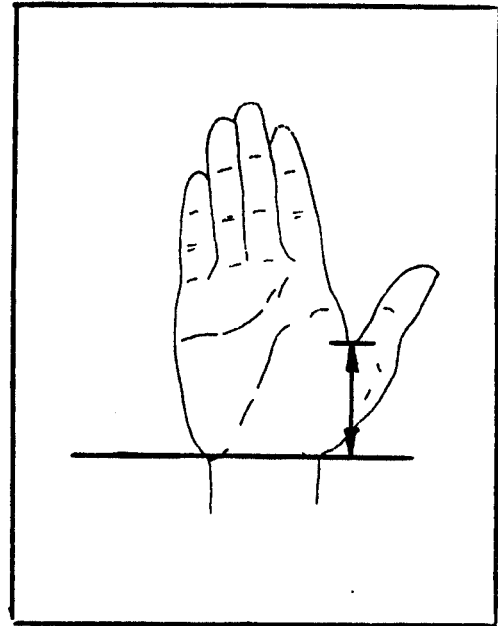
Mean 15.10 Median 15.15
 Standev 0.75 C of Var 4.95
 Kurtosis 0.77 Skewness -0.20
 Minimum 12.50 Maximum 17.40

Percentiles

13.36	1	13.36
13.70	3	13.70
13.89	5	13.87
14.17	10	14.15
14.65	25	14.60
15.17	50	15.10
15.70	75	15.61
16.17	90	16.06
16.45	95	16.33
16.64	97	16.51
16.99	99	16.84

CROTCH 1 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The subject's pollux (thumb) was then abducted slightly and a measurement was taken from the "baseline" to the nearest point on the skinfold in the crotch between his pollux (thumb) and his second digit (index finger).



Correlation between left and right is 0.70

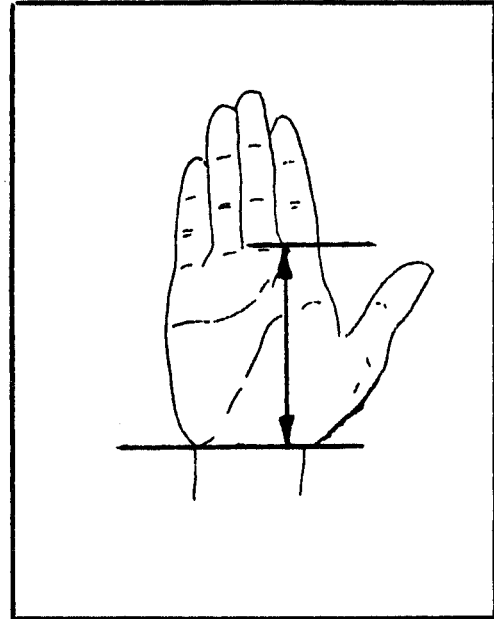
<u>LEFT</u>				<u>RIGHT</u>			
Mean	6.80	Median	6.80	Mean	6.66	Median	6.71
Standev	0.52	C of Var	7.72	Standev	0.51	C of Var	7.66
Kurtosis	0.47	Skewness	-0.00	Kurtosis	-0.20	Skewness	-0.02
Minimum	5.20	Maximum	8.15	Minimum	5.10	Maximum	7.95

Percentiles

5.58	1	5.47
5.81	3	5.70
5.94	5	5.82
6.13	10	6.01
6.45	25	6.32
6.80	50	6.66
7.15	75	7.00
7.47	90	7.31
7.66	95	7.50
7.79	97	7.62
8.02	99	7.85

CROTCH 2 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open his fingers slightly whilst pointing his third digit (middle finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between his second (index) and third digit (middle finger).



Correlation between left and right is 0.86

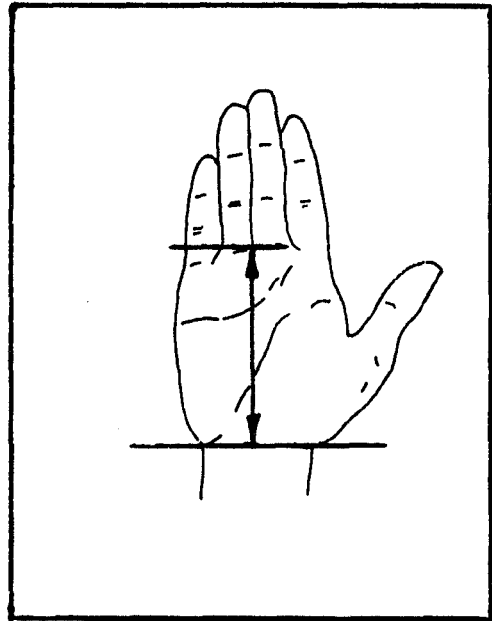
<u>LEFT</u>				<u>RIGHT</u>			
Mean	10.78	Median	10.78	Mean	10.72	Median	10.74
Standev	0.56	C of Var	5.22	Standev	0.54	C of Var	5.07
Kurtosis	0.27	Skewness	-0.01	Kurtosis	0.24	Skewness	0.03
Minimum	9.25	Maximum	12.50	Minimum	9.25	Maximum	12.45

Percentiles

9.47	1	9.46
9.72	3	9.70
9.86	5	9.83
10.06	10	10.02
10.40	25	10.35
10.78	50	10.72
11.16	75	11.09
11.51	90	11.42
11.71	95	11.62
11.84	97	11.74
12.09	99	11.99

CROTCH 3 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open his fingers slightly whilst pointing his third digit (middle finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between his third (middle) and fourth digit (ring finger).



Correlation between left and right is 0.84

LEFT

Mean	10.74	Median	10.74
Standev	0.56	C of Var	5.26
Kurtosis	0.25	Skewness	0.10
Minimum	9.20	Maximum	12.50

RIGHT

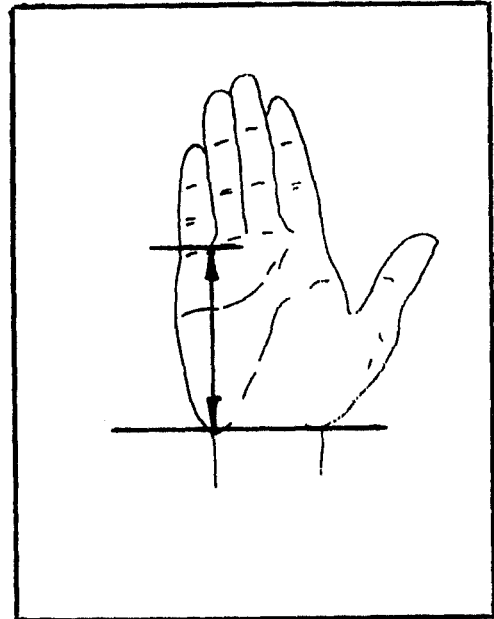
Mean	10.69	Median	10.70
Standev	0.55	C of Var	5.11
Kurtosis	0.26	Skewness	-0.01
Minimum	9.20	Maximum	12.30

Percentiles

9.43	1	9.42
9.68	3	9.66
9.81	5	9.79
10.02	10	9.99
10.36	25	10.32
10.74	50	10.69
11.12	75	11.05
11.47	90	11.39
11.67	95	11.58
11.81	97	11.71
12.06	99	11.96

CROTCH 4 TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to open his fingers slightly whilst pointing his fourth digit (ring finger) perpendicular to the "baseline". A measurement was then taken from the "baseline" to the nearest point on the skinfold in the crotch between his fourth (ring) and fifth digit (little finger).



Correlation between left and right is 0.74

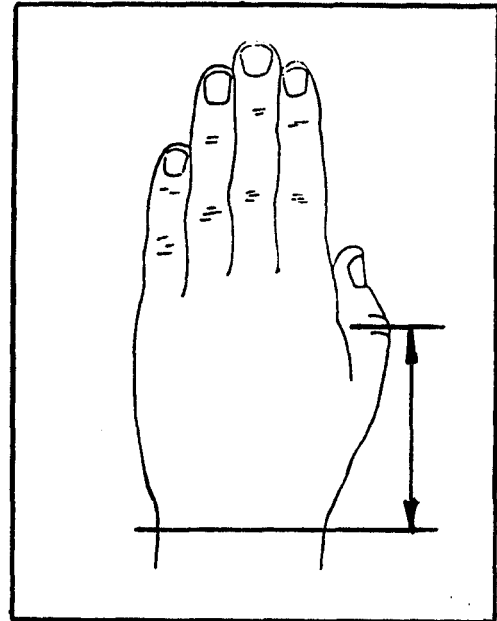
<u>LEFT</u>				<u>RIGHT</u>			
Mean	9.58	Median	9.61	Mean	9.61	Median	9.60
Standev	0.53	C of Var	5.53	Standev	0.53	C of Var	5.52
Kurtosis	0.31	Skewness	-0.02	Kurtosis	0.29	Skewness	0.09
Minimum	8.20	Maximum	11.20	Minimum	8.00	Maximum	11.15

Percentiles

8.35	1	8.37
8.59	3	8.61
8.71	5	8.74
8.90	10	8.93
9.22	25	9.25
9.58	50	9.61
9.94	75	9.96
10.26	90	10.29
10.45	95	10.48
10.58	97	10.60
10.81	99	10.84

POLLUX INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was then oriented parallel to the "baseline", and was lowered onto the centre of the interphalangeal joint of the subject's pollux (thumb). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.73

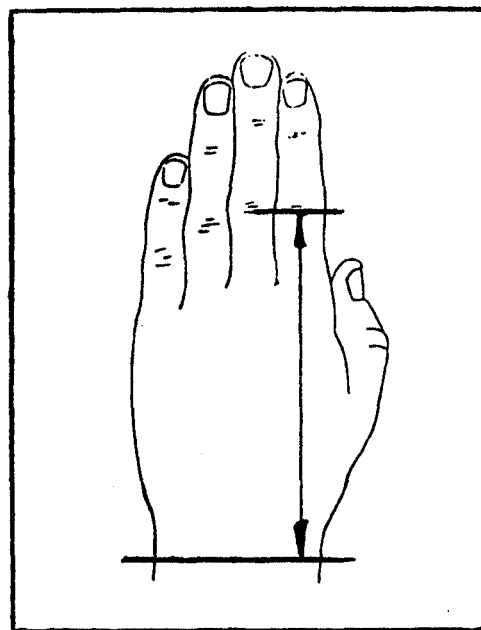
<u>LEFT</u>				<u>RIGHT</u>			
Mean	8.88	Median	8.87	Mean	8.68	Median	8.64
Standev	0.63	C of Var	7.13	Standev	0.65	C of Var	7.48
Kurtosis	0.43	Skewness	-0.15	Kurtosis	-0.23	Skewness	0.01
Minimum	6.55	Maximum	10.45	Minimum	6.95	Maximum	10.30

Percentiles

7.41	1	7.17
7.69	3	7.46
7.84	5	7.61
8.07	10	7.85
8.46	25	8.24
8.88	50	8.68
9.31	75	9.12
9.69	90	9.51
9.92	95	9.75
10.07	97	9.90
10.35	99	10.19

DIGIT 2 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's second digit (index finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.86

LEFT

Mean 13.04 Median 13.07
 Standev 0.65 C of Var 4.98
 Kurtosis 0.75 Skewness -0.00
 Minimum 10.85 Maximum 15.00

RIGHT

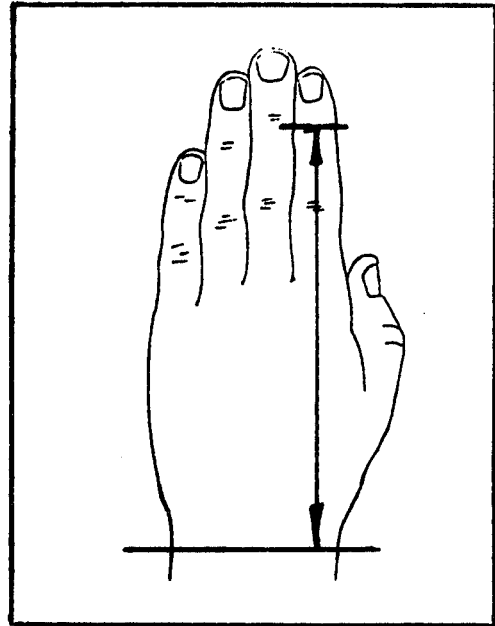
Mean 12.87 Median 12.90
 Standev 0.64 C of Var 4.97
 Kurtosis 0.34 Skewness -0.23
 Minimum 10.70 Maximum 14.85

Percentiles

11.53	1	11.38
11.82	3	11.67
11.97	5	11.82
12.21	10	12.05
12.60	25	12.44
13.04	50	12.87
13.48	75	13.30
13.87	90	13.69
14.11	95	13.92
14.26	97	14.07
14.55	99	14.36

DIGIT 2 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's second digit (index finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.90

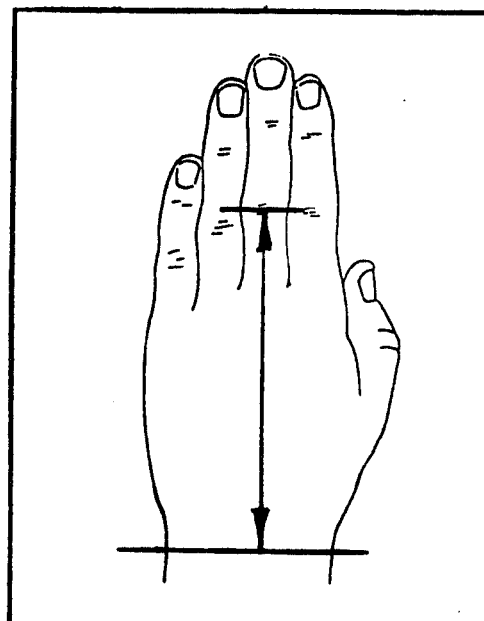
<u>LEFT</u>				<u>RIGHT</u>			
Mean	15.52	Median	15.52	Mean	15.36	Median	15.41
Standev	0.79	C of Var	5.08	Standev	0.75	C of Var	4.89
Kurtosis	0.19	Skewness	-0.02	Kurtosis	0.17	Skewness	-0.09
Minimum	13.20	Maximum	17.60	Minimum	13.05	Maximum	17.60

Percentiles

13.69	1	13.62
14.04	3	13.95
14.22	5	14.13
14.51	10	14.40
14.99	25	14.86
15.52	50	15.36
16.05	75	15.87
16.53	90	16.33
16.82	95	16.60
17.00	97	16.78
17.35	99	17.11

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the proximal interphalangeal joint of the subject's third digit (middle finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.87

LEFT

Mean	13.41	Median	13.43
Standev	0.66	C of Var	4.93
Kurtosis	0.22	Skewness	-0.12
Minimum	11.35	Maximum	15.25

RIGHT

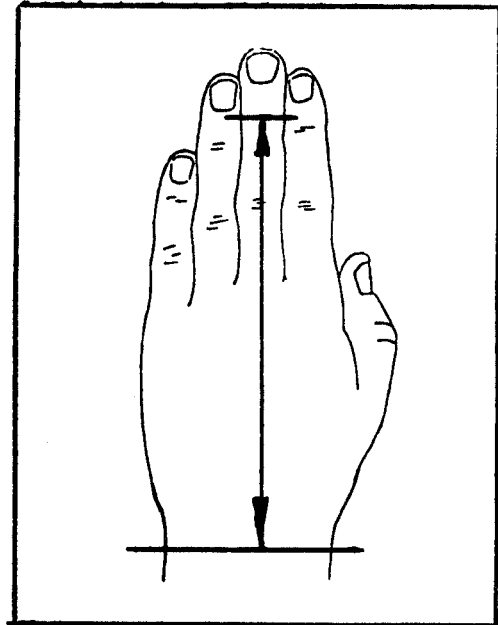
Mean	13.33	Median	13.37
Standev	0.63	C of Var	4.76
Kurtosis	0.15	Skewness	-0.12
Minimum	11.50	Maximum	15.10

Percentiles

11.88	1	11.86
12.17	3	12.14
12.33	5	12.29
12.57	10	12.52
12.97	25	12.91
13.41	50	13.33
13.86	75	13.76
14.26	90	14.15
14.50	95	14.38
14.66	97	14.53
14.95	99	14.81

DIGIT 3 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's third digit (middle finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.90

LEFT

Mean 16.49 Median 16.48
 Standev 0.78 C of Var 4.75
 Kurtosis 0.05 Skewness -0.03
 Minimum 14.00 Maximum 18.70

RIGHT

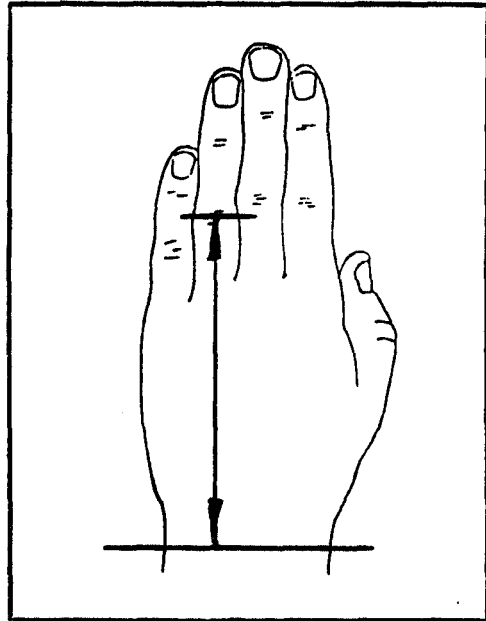
Mean 16.38 Median 16.42
 Standev 0.78 C of Var 4.77
 Kurtosis -0.05 Skewness -0.04
 Minimum 14.10 Maximum 18.65

Percentiles

14.67	1	14.57
15.02	3	14.91
15.20	5	15.10
15.49	10	15.38
15.96	25	15.86
16.49	50	16.38
17.02	75	16.91
17.49	90	17.38
17.78	95	17.67
17.96	97	17.85
18.31	99	18.20

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's fourth digit (ring finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.83

LEFT

Mean 12.57 Median 12.58
 Standev 0.62 C of Var 4.93
 Kurtosis 0.14 Skewness -0.10
 Minimum 10.95 Maximum 14.25

RIGHT

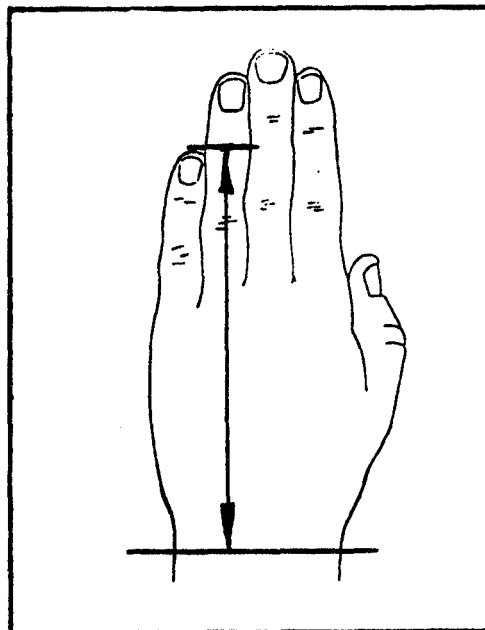
Mean 12.55 Median 12.59
 Standev 0.61 C of Var 4.87
 Kurtosis 0.30 Skewness -0.08
 Minimum 10.80 Maximum 14.30

Percentiles

11.13	1	11.13
11.41	3	11.40
11.55	5	11.55
11.78	10	11.77
12.15	25	12.14
12.57	50	12.55
12.99	75	12.96
13.37	90	13.34
13.59	95	13.56
13.74	97	13.70
14.01	99	13.97

DIGIT 4 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's fourth digit (ring finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.87

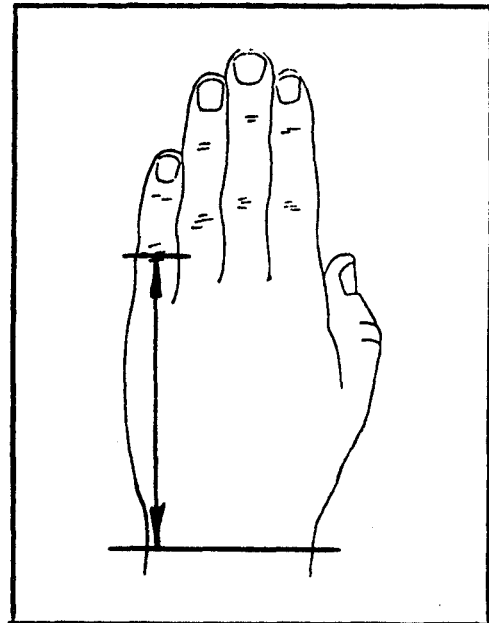
<u>LEFT</u>				<u>RIGHT</u>			
Mean	15.44	Median	15.47	Mean	15.44	Median	15.46
Standev	0.77	C of Var	4.96	Standev	0.75	C of Var	4.83
Kurtosis	0.05	Skewness	0.00	Kurtosis	0.15	Skewness	0.03
Minimum	13.50	Maximum	17.55	Minimum	13.45	Maximum	17.45

Percentiles

13.66	1	13.71
14.00	3	14.04
14.18	5	14.21
14.46	10	14.49
14.92	25	14.94
15.44	50	15.44
15.96	75	15.94
16.42	90	16.40
16.70	95	16.67
16.88	97	16.85
17.22	99	17.18

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the proximal interphalangeal joint of the subject's fifth digit (little finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.71

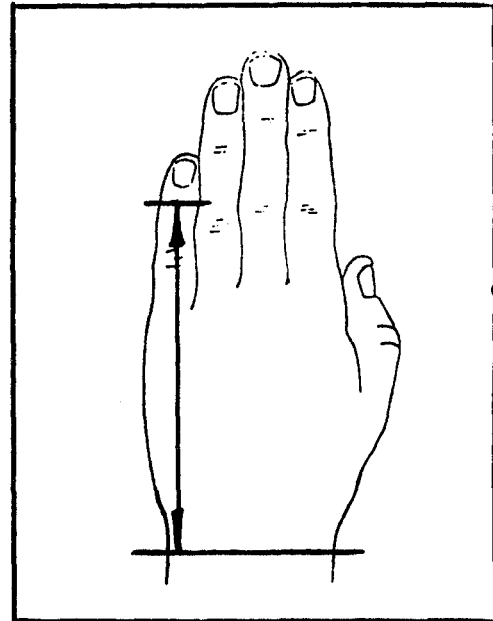
<u>LEFT</u>				<u>RIGHT</u>			
Mean	10.88	Median	10.87	Mean	10.92	Median	10.92
Standev	0.61	C of Var	5.60	Standev	0.57	C of Var	5.27
Kurtosis	0.27	Skewness	-0.13	Kurtosis	0.46	Skewness	-0.03
Minimum	9.05	Maximum	12.45	Minimum	9.15	Maximum	12.65

Percentiles

9.46	1	9.58
9.73	3	9.84
9.88	5	9.97
10.10	10	10.18
10.47	25	10.53
10.88	50	10.92
11.29	75	11.31
11.66	90	11.66
11.88	95	11.86
12.02	97	12.00
12.30	99	12.26

DIGIT 5 DISTAL INTERPHALANGEAL JOINT TO WRIST CREASE

The subject's extended hand was placed palm flat down on the measuring table, with the wrist crease aligned on the "baseline". The subject was then instructed to keep his fingers together and perpendicular to the "baseline". The measuring paddle was oriented parallel to the "baseline", and was lowered onto the centre of the distal interphalangeal joint of the subject's fifth digit (little finger). The distance from this point to his wrist crease was then measured.



Correlation between left and right is 0.79

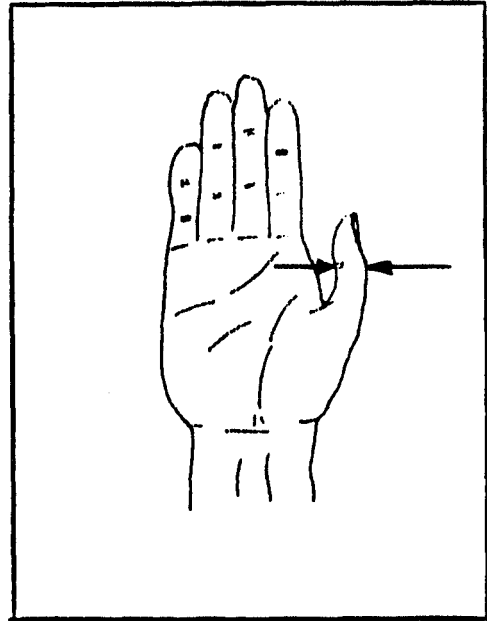
<u>LEFT</u>				<u>RIGHT</u>			
Mean	12.91	Median	12.95	Mean	12.93	Median	12.96
Standev	0.72	C of Var	5.55	Standev	0.66	C of Var	5.09
Kurtosis	0.24	Skewness	-0.19	Kurtosis	0.75	Skewness	-0.25
Minimum	10.65	Maximum	14.80	Minimum	10.40	Maximum	14.80

Percentiles

11.24	1	11.40
11.56	3	11.69
11.73	5	11.85
11.99	10	12.09
12.42	25	12.49
12.91	50	12.93
13.39	75	13.37
13.83	90	13.77
14.09	95	14.01
14.26	97	14.17
14.58	99	14.46

POLLUX INTERPHALANGEAL JOINT DEPTH

The subject's extended pollux (thumb) was placed on the measuring table, with the palmar surface against the perspex insert. The maximum depth of the interphalangeal joint was then measured directly.



Correlation between left and right is 0.79

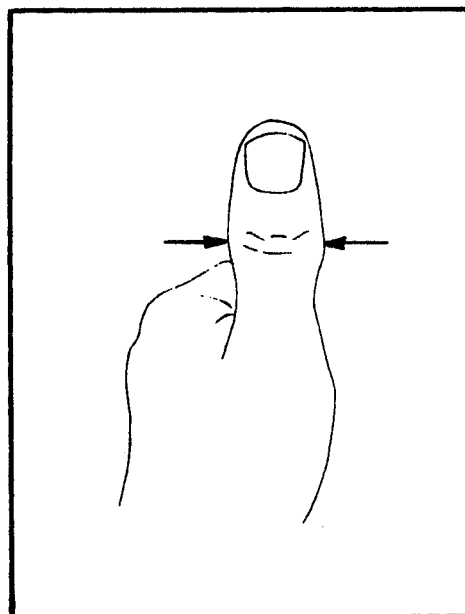
<u>LEFT</u>				<u>RIGHT</u>			
Mean	2.13	Median	2.12	Mean	2.16	Median	2.15
Standev	0.16	C of Var	7.57	Standev	0.15	C of Var	7.08
Kurtosis	-0.51	Skewness	0.05	Kurtosis	-0.26	Skewness	0.26
Minimum	1.70	Maximum	2.50	Minimum	1.80	Maximum	2.60

Percentiles

1.75	1	1.80
1.82	3	1.87
1.86	5	1.91
1.92	10	1.96
2.02	25	2.06
2.13	50	2.16
2.23	75	2.26
2.33	90	2.36
2.39	95	2.41
2.43	97	2.45
2.50	99	2.52

POLLUX INTERPHALANGEAL JOINT BREADTH

The subject's extended pollux (thumb) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the interphalangeal joint was then measured directly.



Correlation between left and right is 0.73

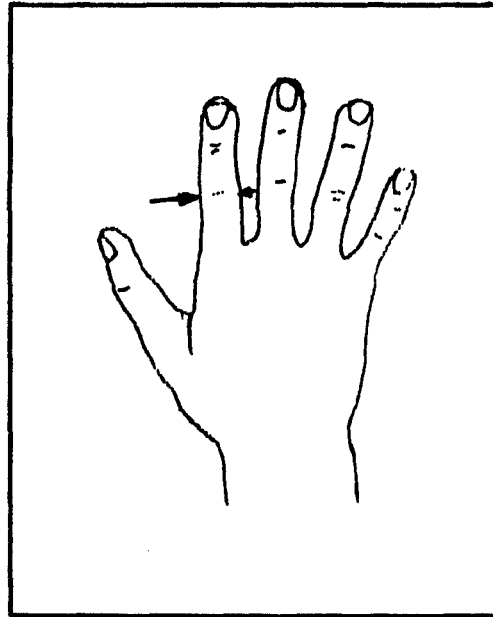
<u>LEFT</u>				<u>RIGHT</u>			
Mean	2.26	Median	2.25	Mean	2.31	Median	2.32
Standev	0.17	C of Var	7.67	Standev	0.19	C of Var	8.16
Kurtosis	-0.23	Skewness	0.01	Kurtosis	4.02	Skewness	0.76
Minimum	1.85	Maximum	2.75	Minimum	1.75	Maximum	3.45

Percentiles

1.85	1	1.87
1.93	3	1.95
1.97	5	2.00
2.03	10	2.06
2.14	25	2.18
2.26	50	2.31
2.37	75	2.43
2.48	90	2.55
2.54	95	2.61
2.58	97	2.66
2.66	99	2.74

DIGIT 2 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended second digit (index finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.81

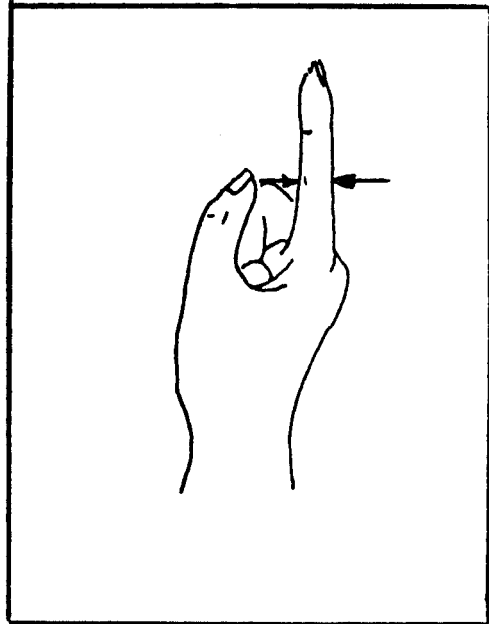
<u>LEFT</u>				<u>RIGHT</u>			
Mean	2.11	Median	2.11	Mean	2.16	Median	2.16
Standev	0.14	C of Var	6.59	Standev	0.14	C of Var	6.39
Kurtosis	-0.16	Skewness	-0.05	Kurtosis	-0.36	Skewness	0.03
Minimum	1.70	Maximum	2.40	Minimum	1.80	Maximum	2.45

Percentiles

1.79	1	1.84
1.85	3	1.90
1.88	5	1.93
1.93	10	1.98
2.02	25	2.06
2.11	50	2.16
2.20	75	2.25
2.29	90	2.33
2.34	95	2.39
2.37	97	2.42
2.43	99	2.48

DIGIT 2 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended second digit (index finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.85

LEFT

RIGHT

Mean	1.85	Median	1.84	Mean	1.92	Median	1.92
Standev	0.13	C of Var	7.08	Standev	0.14	C of Var	7.46
Kurtosis	0.71	Skewness	-0.15	Kurtosis	1.13	Skewness	-0.41
Minimum	1.35	Maximum	2.20	Minimum	1.30	Maximum	2.35

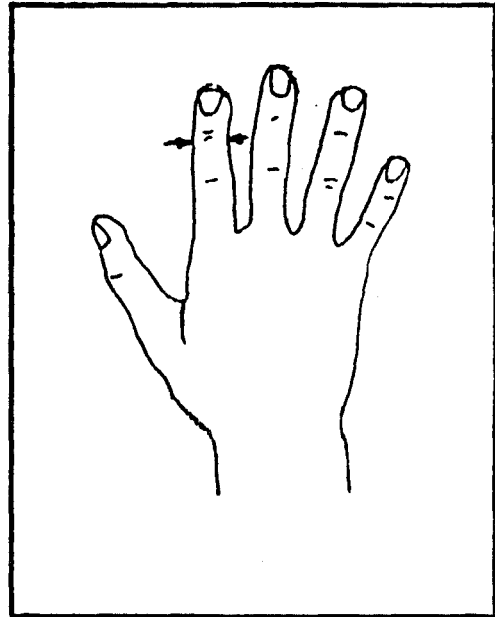
Percentiles

1.55	1	1.58
1.60	3	1.65
1.63	5	1.68
1.68	10	1.73
1.76	25	1.82
1.85	50	1.92
1.94	75	2.01
2.02	90	2.10
2.07	95	2.15
2.10	97	2.19
2.15	99	2.25



DIGIT 2 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended second digit (index finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.83

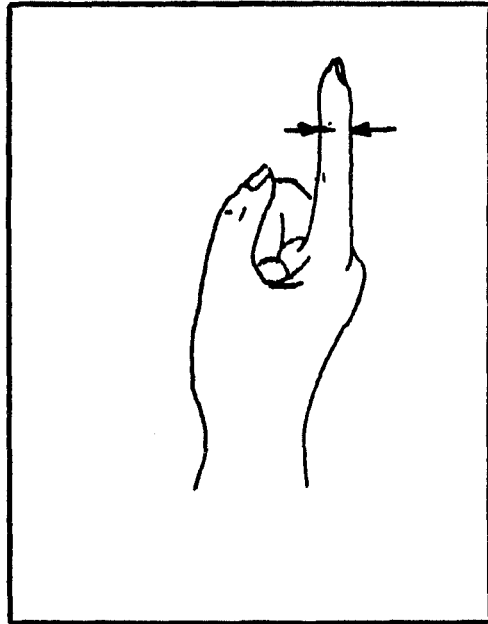
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.85	Median	1.85	Mean	1.90	Median	1.91
Standev	0.12	C of Var	6.70	Standev	0.14	C of Var	7.30
Kurtosis	0.03	Skewness	-0.05	Kurtosis	0.01	Skewness	0.08
Minimum	1.55	Maximum	2.25	Minimum	1.55	Maximum	2.30

Percentiles

1.56	1	1.58
1.62	3	1.64
1.65	5	1.68
1.69	10	1.73
1.77	25	1.81
1.85	50	1.90
1.94	75	2.00
2.01	90	2.08
2.06	95	2.13
2.09	97	2.17
2.14	99	2.23

DIGIT 2 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended second digit (index finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.88

LEFT

RIGHT

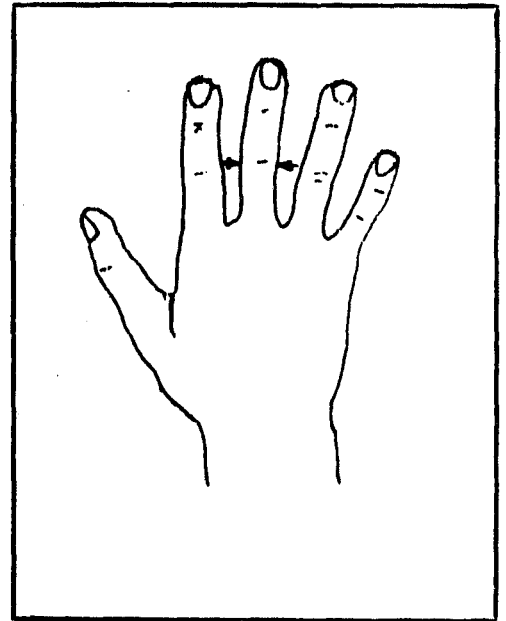
Mean	1.53	Median	1.54	Mean	1.57	Median	1.57
Standev	0.14	C of Var	8.97	Standev	0.14	C of Var	9.21
Kurtosis	0.11	Skewness	0.12	Kurtosis	0.28	Skewness	0.15
Minimum	1.20	Maximum	2.05	Minimum	1.25	Maximum	2.05

Percentiles

1.21	1	1.24
1.27	3	1.30
1.30	5	1.34
1.35	10	1.39
1.43	25	1.48
1.53	50	1.57
1.62	75	1.67
1.70	90	1.76
1.75	95	1.81
1.78	97	1.85
1.85	99	1.91

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended third digit (middle finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.84

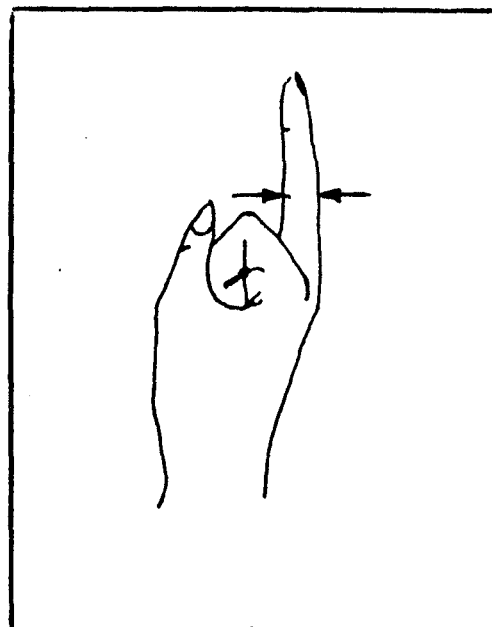
<u>LEFT</u>				<u>RIGHT</u>			
Mean	2.03	Median	2.03	Mean	2.09	Median	2.10
Standev	0.13	C of Var	6.20	Standev	0.13	C of Var	6.26
Kurtosis	0.14	Skewness	0.04	Kurtosis	0.18	Skewness	-0.05
Minimum	1.70	Maximum	2.40	Minimum	1.70	Maximum	2.45

Percentiles

1.74	1	1.79
1.79	3	1.85
1.82	5	1.88
1.87	10	1.93
1.95	25	2.01
2.03	50	2.09
2.12	75	2.18
2.19	90	2.26
2.24	95	2.31
2.27	97	2.34
2.33	99	2.40

DIGIT 3 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended third digit (middle finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.86

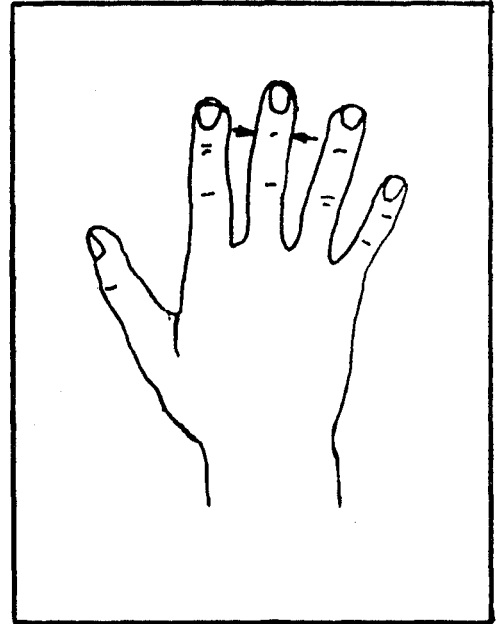
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.91	Median	1.92	Mean	1.99	Median	1.98
Standev	0.16	C of Var	8.20	Standev	0.16	C of Var	8.10
Kurtosis	0.23	Skewness	0.26	Kurtosis	0.68	Skewness	0.13
Minimum	1.55	Maximum	2.35	Minimum	1.45	Maximum	2.50

Percentiles

1.55	1	1.61
1.62	3	1.68
1.66	5	1.72
1.71	10	1.78
1.81	25	1.88
1.91	50	1.99
2.02	75	2.10
2.12	90	2.19
2.17	95	2.25
2.21	97	2.29
2.28	99	2.36

DIGIT 3 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended third digit (middle finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.78

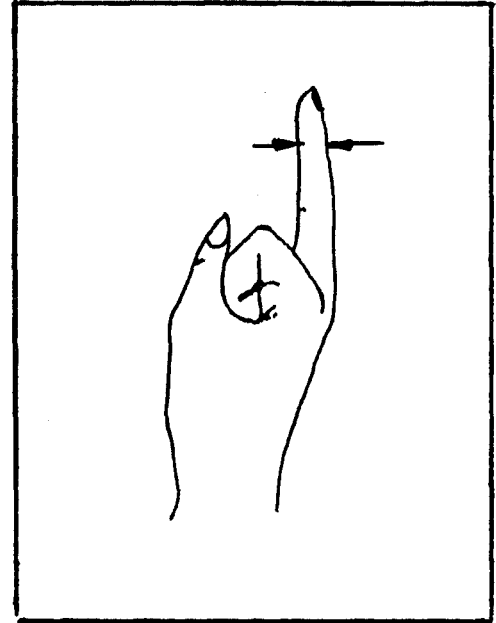
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.83	Median	1.82	Mean	1.88	Median	1.88
Standev	0.11	C of Var	6.25	Standev	0.13	C of Var	6.72
Kurtosis	-0.24	Skewness	-0.18	Kurtosis	-0.26	Skewness	-0.01
Minimum	1.55	Maximum	2.10	Minimum	1.55	Maximum	2.25

Percentiles

1.56	1	1.58
1.61	3	1.64
1.64	5	1.67
1.68	10	1.71
1.75	25	1.79
1.83	50	1.88
1.90	75	1.96
1.97	90	2.04
2.01	95	2.08
2.04	97	2.11
2.09	99	2.17

DIGIT 3 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended third digit (middle finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.92

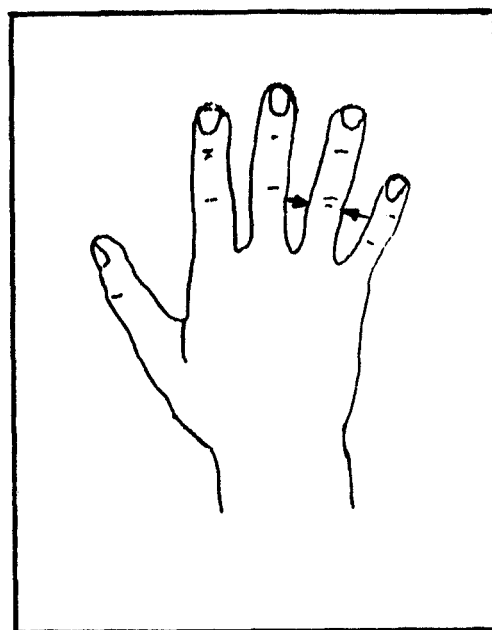
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.61	Median	1.60	Mean	1.66	Median	1.65
Standev	0.17	C of Var	10.27	Standev	0.18	C of Var	10.62
Kurtosis	1.15	Skewness	-0.19	Kurtosis	1.17	Skewness	-0.18
Minimum	1.00	Maximum	2.20	Minimum	1.00	Maximum	2.20

Percentiles

1.22	1	1.25
1.30	3	1.33
1.34	5	1.37
1.40	10	1.43
1.50	25	1.54
1.61	50	1.66
1.72	75	1.78
1.82	90	1.88
1.88	95	1.95
1.92	97	1.99
1.99	99	2.07

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fourth digit (ring finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.78

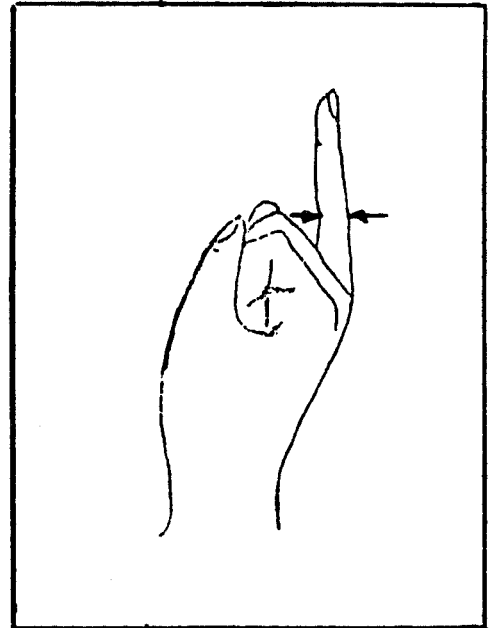
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.89	Median	1.89	Mean	1.94	Median	1.95
Standev	0.12	C of Var	6.26	Standev	0.12	C of Var	6.13
Kurtosis	0.47	Skewness	-0.08	Kurtosis	0.26	Skewness	-0.11
Minimum	1.55	Maximum	2.35	Minimum	1.60	Maximum	2.30

Percentiles

1.61	1	1.66
1.66	3	1.72
1.69	5	1.74
1.73	10	1.79
1.81	25	1.86
1.89	50	1.94
1.97	75	2.02
2.04	90	2.09
2.08	95	2.14
2.11	97	2.16
2.16	99	2.22

DIGIT 4 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fourth digit (ring finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.89

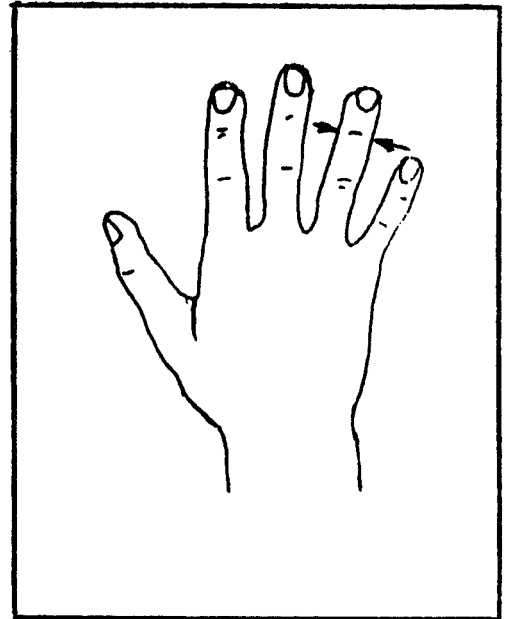
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.80	Median	1.78	Mean	1.86	Median	1.85
Standev	0.20	C of Var	10.88	Standev	0.19	C of Var	10.47
Kurtosis	1.81	Skewness	0.81	Kurtosis	1.63	Skewness	0.47
Minimum	1.25	Maximum	2.50	Minimum	1.25	Maximum	2.55

Percentiles

1.35	1	1.41
1.43	3	1.50
1.48	5	1.54
1.55	10	1.61
1.67	25	1.73
1.80	50	1.86
1.93	75	1.99
2.05	90	2.11
2.12	95	2.18
2.17	97	2.23
2.26	99	2.32

DIGIT 4 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fourth digit (ring finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.84

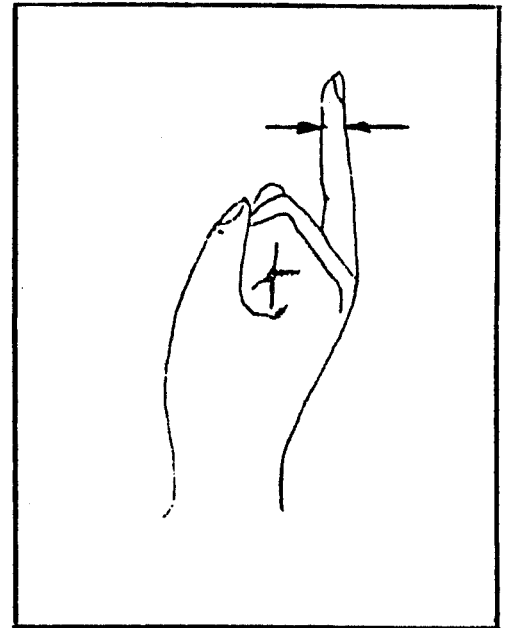
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.69	Median	1.69	Mean	1.73	Median	1.74
Standev	0.11	C of Var	6.64	Standev	0.13	C of Var	7.50
Kurtosis	0.13	Skewness	-0.15	Kurtosis	1.03	Skewness	-0.27
Minimum	1.40	Maximum	2.05	Minimum	1.15	Maximum	2.15

Percentiles

1.43	1	1.43
1.48	3	1.49
1.50	5	1.52
1.54	10	1.57
1.61	25	1.65
1.69	50	1.73
1.76	75	1.82
1.83	90	1.90
1.87	95	1.95
1.90	97	1.98
1.95	99	2.04

DIGIT 4 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fourth digit (ring finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.89

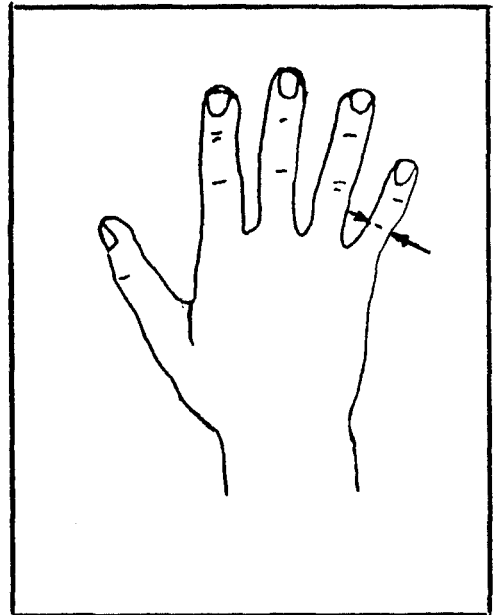
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.50	Median	1.49	Mean	1.54	Median	1.54
Standev	0.18	C of Var	11.84	Standev	0.19	C of Var	12.08
Kurtosis	1.89	Skewness	0.63	Kurtosis	1.95	Skewness	0.74
Minimum	1.05	Maximum	2.20	Minimum	1.15	Maximum	2.35

Percentiles

1.08	1	1.11
1.16	3	1.19
1.20	5	1.23
1.27	10	1.30
1.38	25	1.41
1.50	50	1.54
1.61	75	1.67
1.72	90	1.78
1.79	95	1.85
1.83	97	1.89
1.91	99	1.97

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fifth digit (little finger) was placed flat down on the measuring table on its palmar surface, with its lateral surface against the perspex insert. The maximum breadth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.80

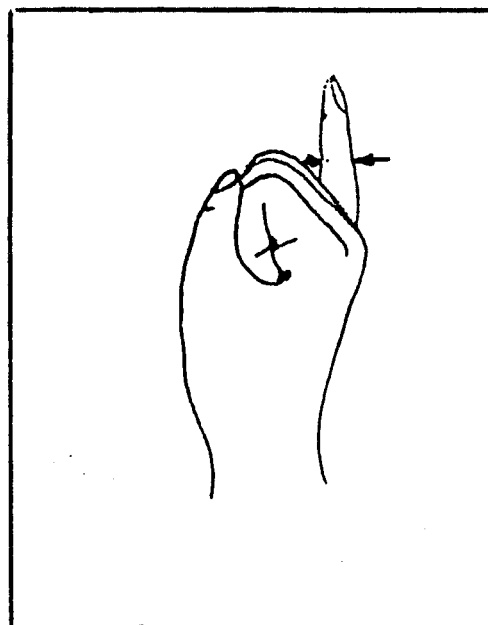
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.67	Median	1.67	Mean	1.71	Median	1.71
Standev	0.12	C of Var	7.07	Standev	0.13	C of Var	7.72
Kurtosis	0.06	Skewness	-0.15	Kurtosis	0.67	Skewness	-0.12
Minimum	1.35	Maximum	2.00	Minimum	1.30	Maximum	2.10

Percentiles

1.39	1	1.40
1.45	3	1.46
1.47	5	1.49
1.52	10	1.54
1.59	25	1.62
1.67	50	1.71
1.75	75	1.80
1.82	90	1.88
1.86	95	1.93
1.89	97	1.96
1.94	99	2.02

DIGIT 5 PROXIMAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fifth digit (little finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the proximal interphalangeal joint was then measured directly.



Correlation between left and right is 0.87

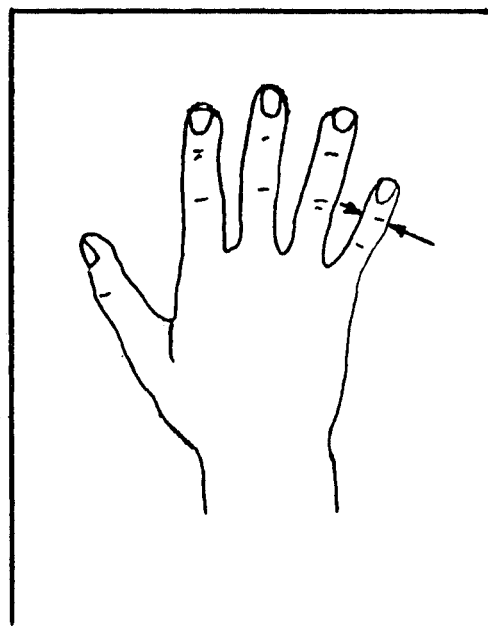
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.61	Median	1.60	Mean	1.66	Median	1.64
Standev	0.16	C of Var	9.70	Standev	0.16	C of Var	9.89
Kurtosis	0.79	Skewness	0.04	Kurtosis	0.73	Skewness	-0.01
Minimum	1.05	Maximum	2.05	Minimum	1.05	Maximum	2.15

Percentiles

1.25	1	1.28
1.32	3	1.35
1.35	5	1.39
1.41	10	1.45
1.50	25	1.55
1.61	50	1.66
1.71	75	1.77
1.81	90	1.87
1.87	95	1.93
1.90	97	1.97
1.97	99	2.04

DIGIT 5 DISTAL INTERPHALANGEAL JOINT BREADTH

The subject's extended fifth digit (little finger) was placed flat down on the measuring table on its palmar surface, with the lateral surface against the perspex insert. The maximum breadth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.86

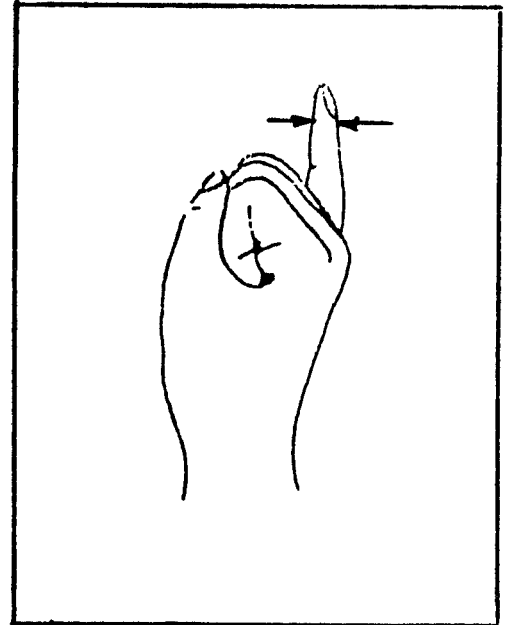
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.53	Median	1.55	Mean	1.57	Median	1.58
Standev	0.11	C of Var	7.37	Standev	0.12	C of Var	7.43
Kurtosis	-0.18	Skewness	-0.18	Kurtosis	0.38	Skewness	-0.08
Minimum	1.25	Maximum	1.80	Minimum	1.25	Maximum	1.95

Percentiles

1.27	1	1.30
1.32	3	1.35
1.35	5	1.38
1.39	10	1.42
1.46	25	1.50
1.53	50	1.57
1.61	75	1.65
1.68	90	1.72
1.72	95	1.77
1.75	97	1.79
1.80	99	1.85

DIGIT 5 DISTAL INTERPHALANGEAL JOINT DEPTH

The subject's extended fifth digit (little finger) was placed on the measuring table with its palmar surface against the perspex insert. The maximum depth of the distal interphalangeal joint was then measured directly.



Correlation between left and right is 0.86

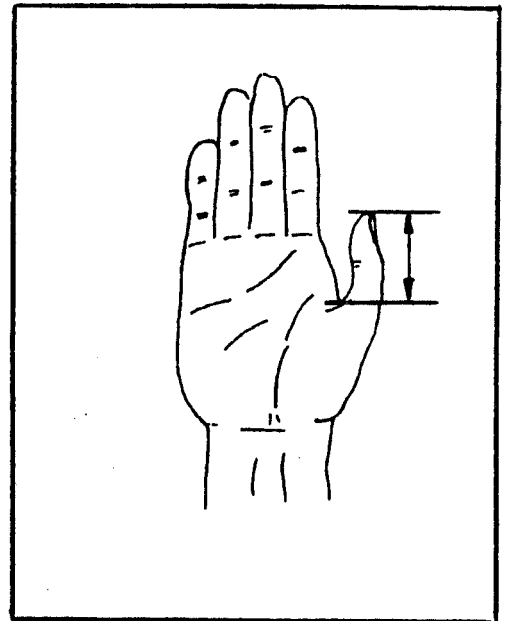
<u>LEFT</u>				<u>RIGHT</u>			
Mean	1.40	Median	1.40	Mean	1.43	Median	1.41
Standev	0.16	C of Var	11.33	Standev	0.17	C of Var	11.83
Kurtosis	0.98	Skewness	0.31	Kurtosis	1.35	Skewness	0.45
Minimum	0.80	Maximum	2.00	Minimum	0.90	Maximum	2.10

Percentiles

1.03	1	1.04
1.10	3	1.11
1.14	5	1.15
1.20	10	1.21
1.30	25	1.32
1.40	50	1.43
1.51	75	1.54
1.61	90	1.65
1.66	95	1.71
1.70	97	1.75
1.77	99	1.82

POLLUX LENGTH

The length of the subject's pollux (thumb) from the midpoint of the tip of his pollux along the axis of his pollux to the level of crotch 1, was obtained from previous measurements of crotch 1 and pollux length to the wrist crease.



Correlation between left and right is 0.68

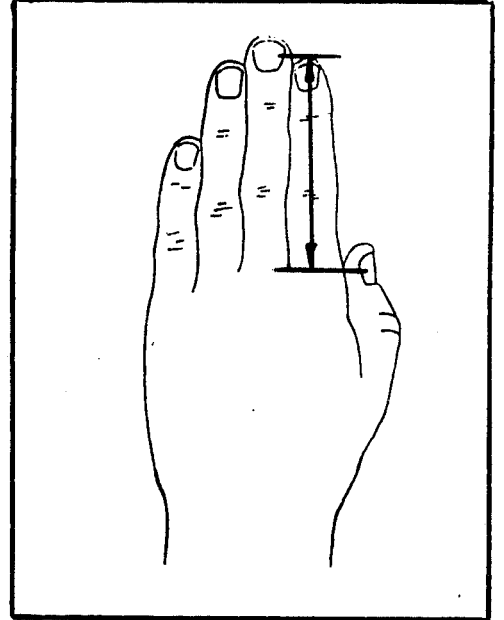
<u>LEFT</u>				<u>RIGHT</u>			
Mean	5.05	Median	5.04	Mean	5.19	Median	5.19
Standev	0.41	C of Var	8.08	Standev	0.46	C of Var	8.76
Kurtosis	0.33	Skewness	-0.12	Kurtosis	0.50	Skewness	-0.16
Minimum	3.85	Maximum	6.20	Minimum	3.55	Maximum	6.65

Percentiles

4.10	1	4.13
4.28	3	4.34
4.38	5	4.44
4.52	10	4.61
4.77	25	4.89
5.05	50	5.19
5.32	75	5.50
5.57	90	5.78
5.72	95	5.94
5.82	97	6.05
6.00	99	6.25

DIGIT 2 LENGTH

The length of the subject's second digit (index finger) from the midpoint of the tip of his second digit along the axis of his finger to the level of crotch 2, was obtained from previous measurements of crotch 2 and the length of the second digit to the wrist crease.



Correlation between left and right is 0.80

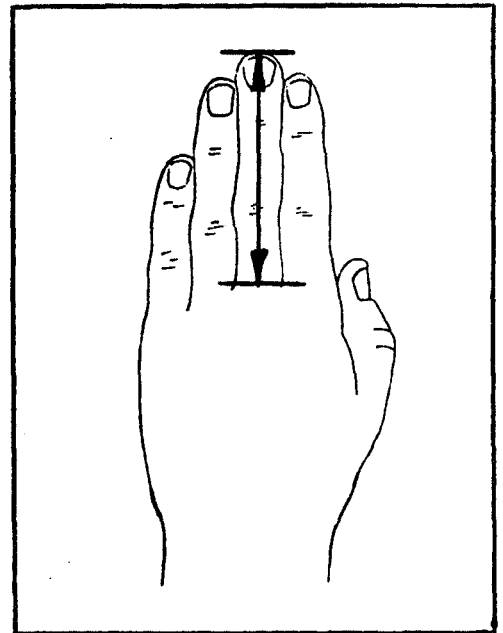
<u>LEFT</u>				<u>RIGHT</u>			
Mean	7.19	Median	7.20	Mean	7.16	Median	7.17
Standev	0.45	C of Var	6.23	Standev	0.46	C of Var	6.46
Kurtosis	0.29	Skewness	-0.00	Kurtosis	1.89	Skewness	-0.08
Minimum	5.95	Maximum	8.55	Minimum	4.95	Maximum	8.65

Percentiles

6.15	1	6.08
6.35	3	6.29
6.45	5	6.40
6.62	10	6.56
6.89	25	6.84
7.19	50	7.16
7.49	75	7.47
7.76	90	7.75
7.93	95	7.91
8.03	97	8.02
8.23	99	8.23

DIGIT 3 LENGTH

The length of the subject's third digit (middle finger) from the midpoint of the tip of his third digit along the axis of his finger to the level of crotch 2, was obtained from previous measurements of crotch 2 and the length of the third digit to the wrist crease.



Correlation between left and right is 0.83

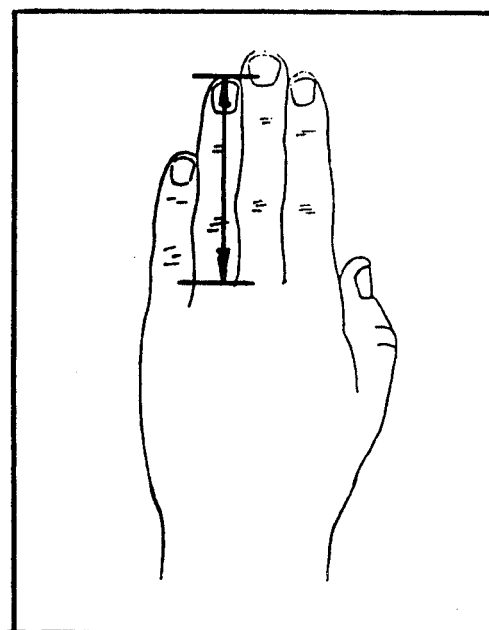
<u>LEFT</u>				<u>RIGHT</u>			
Mean	8.32	Median	8.32	Mean	8.29	Median	8.28
Standev	0.45	C of Var	5.38	Standev	0.45	C of Var	5.42
Kurtosis	0.50	Skewness	0.18	Kurtosis	0.38	Skewness	0.22
Minimum	7.10	Maximum	9.75	Minimum	7.10	Maximum	9.95

Percentiles

7.28	1	7.24
7.48	3	7.44
7.59	5	7.55
7.75	10	7.71
8.02	25	7.99
8.32	50	8.29
8.63	75	8.59
8.90	90	8.86
9.06	95	9.03
9.17	97	9.13
9.37	99	9.33

DIGIT 4 LENGTH

The length of the subject's fourth digit (ring finger) from the midpoint of the tip of his fourth digit along the axis of his finger to the level of crotch 3 was obtained from previous measurements of crotch 3 and the length of the fourth digit to the wrist crease.



Correlation between left and right is 0.84

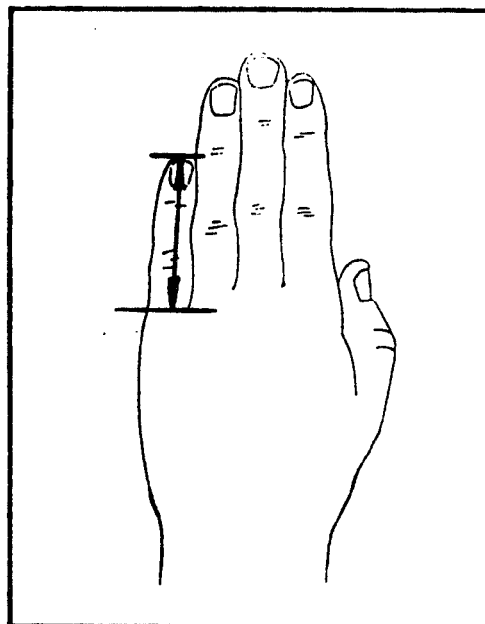
<u>LEFT</u>				<u>RIGHT</u>			
Mean	7.25	Median	7.26	Mean	7.24	Median	7.24
Standev	0.45	C of Var	6.15	Standev	0.42	C of Var	5.85
Kurtosis	1.05	Skewness	-0.17	Kurtosis	0.25	Skewness	0.09
Minimum	5.40	Maximum	8.70	Minimum	6.15	Maximum	8.60

Percentiles

6.22	1	6.26
6.41	3	6.45
6.52	5	6.55
6.68	10	6.70
6.95	25	6.96
7.25	50	7.24
7.55	75	7.53
7.82	90	7.79
7.99	95	7.94
8.09	97	8.04
8.29	99	8.23

DIGIT 5 LENGTH

The length of the subject's fifth digit (little finger) from the midpoint of the tip of his fifth digit along the axis of his finger to the level of crotch 4, was obtained from previous measurements of crotch 4 and the length of the fifth digit to the wrist crease.



Correlation between left and right is 0.78

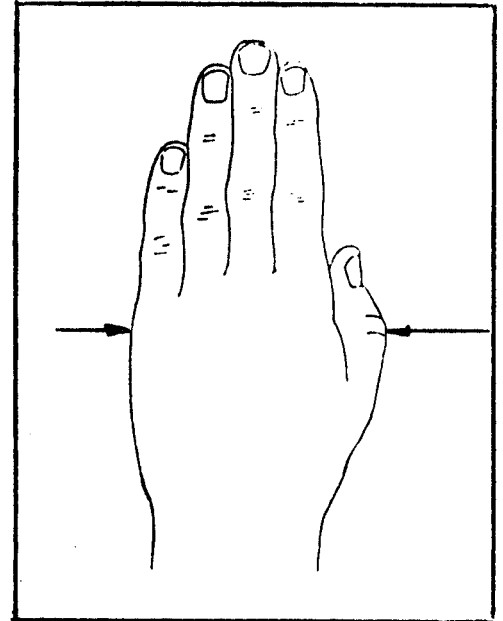
<u>LEFT</u>				<u>RIGHT</u>			
Mean	5.59	Median	5.62	Mean	5.50	Median	5.52
Standev	0.44	C of Var	7.89	Standev	0.43	C of Var	7.88
Kurtosis	0.45	Skewness	-0.03	Kurtosis	1.32	Skewness	-0.32
Minimum	4.30	Maximum	6.95	Minimum	3.60	Maximum	6.85

Percentiles

4.56	1	4.49
4.76	3	4.68
4.86	5	4.78
5.02	10	4.94
5.29	25	5.21
5.59	50	5.50
5.89	75	5.79
6.15	90	6.05
6.31	95	6.21
6.42	97	6.31
6.61	99	6.50

HAND BREADTH AT POLLUX

The subject's extended hand was placed palm flat down on the measuring table, more or less parallel to the "baseline", with his fingers together and the medial side of his pollux (thumb) held against the perspex block. The breadth of the subject's hand was then measured to the lateral side of the metacarpal-phalangeal joint of digit 5 (little finger).



Correlation between left and right is 0.80

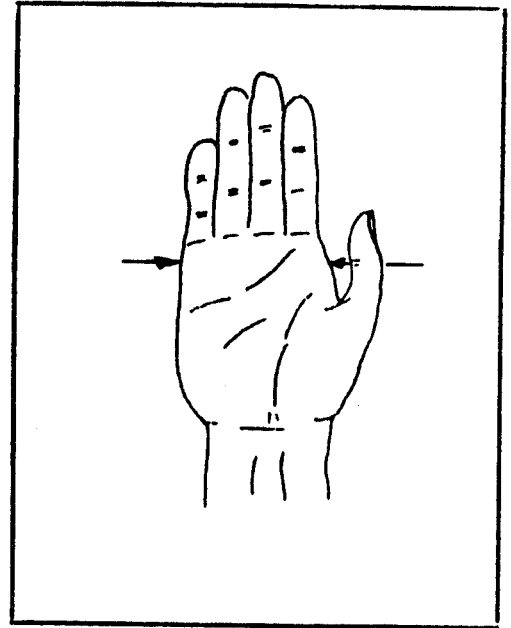
<u>LEFT</u>			<u>RIGHT</u>				
Mean	10.50	Median	10.49	Mean	10.59	Median	10.61
Standev	0.53	C of Var	5.02	Standev	0.53	C of Var	5.00
Kurtosis	0.93	Skewness	-0.29	Kurtosis	0.19	Skewness	-0.27
Minimum	8.25	Maximum	12.05	Minimum	8.90	Maximum	11.85

Percentiles

9.27	1	9.36
9.51	3	9.59
9.63	5	9.72
9.82	10	9.91
10.14	25	10.23
10.50	50	10.59
10.86	75	10.94
11.18	90	11.27
11.37	95	11.46
11.49	97	11.58
11.73	99	11.82

HAND BREADTH AT METACARPALE

The subject's extended hand was placed palm flat down on the measuring table, more or less parallel to the "baseline", with his fingers together and his pollux (thumb) abducted. The subject was then instructed to place the medial side of his second digit (index finger) against the perspex insert, and the breadth of his hand across the metacarpal-phalangeal joints of digits 2 to 5 was measured.



Correlation between left and right is 0.80

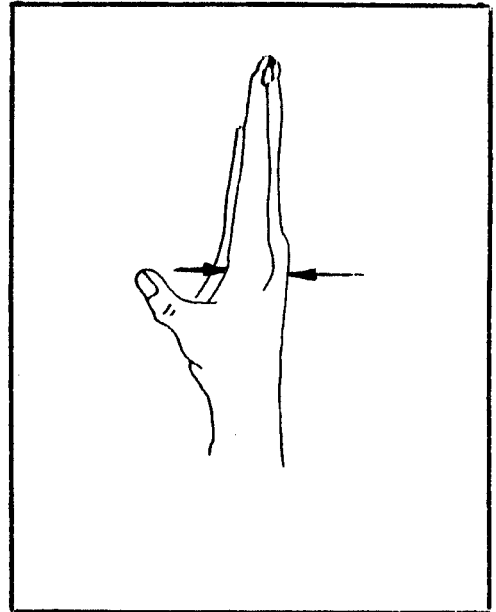
<u>LEFT</u>				<u>RIGHT</u>			
Mean	8.65	Median	8.65	Mean	8.80	Median	8.80
Standev	0.41	C of Var	4.73	Standev	0.41	C of Var	4.70
Kurtosis	0.45	Skewness	-0.20	Kurtosis	0.17	Skewness	-0.17
Minimum	7.25	Maximum	9.80	Minimum	7.55	Maximum	9.85

Percentiles

7.69	1	7.84
7.88	3	8.02
7.97	5	8.12
8.12	10	8.27
8.37	25	8.52
8.65	50	8.80
8.92	75	9.07
9.17	90	9.33
9.32	95	9.48
9.42	97	9.57
9.60	99	9.76

HAND THICKNESS: METACARPALE III

The palmar surface of the subject's hand was held against the perspex insert, and the maximum thickness to the dorsal side of the metacarpal-phalangeal joint of digit 3 (middle finger) was measured.



Correlation between left and right is 0.59

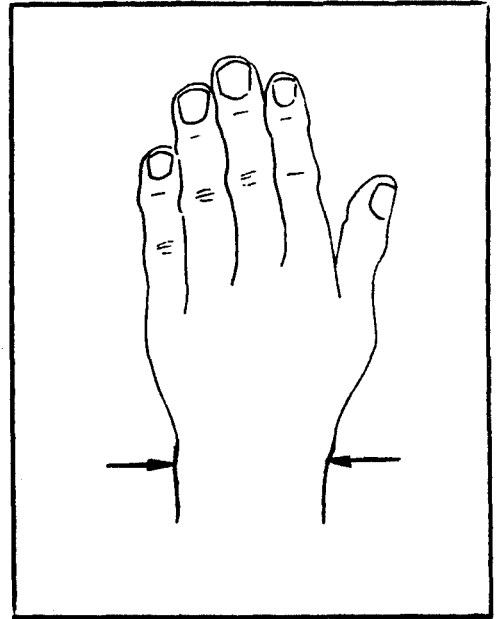
<u>LEFT</u>				<u>RIGHT</u>			
Mean	3.22	Median	3.20	Mean	3.30	Median	3.27
Standev	0.29	C of Var	9.14	Standev	0.34	C of Var	10.29
Kurtosis	0.23	Skewness	0.29	Kurtosis	1.16	Skewness	0.77
Minimum	2.45	Maximum	4.30	Minimum	2.55	Maximum	4.75

Percentiles

2.53	1	2.51
2.66	3	2.66
2.73	5	2.74
2.84	10	2.87
3.02	25	3.07
3.22	50	3.30
3.41	75	3.53
3.59	90	3.74
3.70	95	3.86
3.77	97	3.94
3.90	99	4.09

WRIST BREADTH

The subject's extended hand was placed palm flat down on the measuring table, with the fingers more or less parallel to the "baseline", and the lateral side of the wrist at the wrist crease was aligned with the "baseline". The maximum breadth of the wrist between the ulnar and radial styliions was then measured.



Correlation between left and right is 0.79

<u>LEFT</u>				<u>RIGHT</u>			
Mean	6.34	Median	6.32	Mean	6.43	Median	6.43
Standev	0.37	C of Var	5.90	Standev	0.35	C of Var	5.50
Kurtosis	0.01	Skewness	0.08	Kurtosis	0.39	Skewness	0.14
Minimum	5.25	Maximum	7.45	Minimum	5.20	Maximum	7.65

Percentiles

5.47	1	5.61
5.63	3	5.77
5.72	5	5.85
5.86	10	5.98
6.09	25	6.20
6.34	50	6.43
6.59	75	6.67
6.82	90	6.89
6.95	95	7.02
7.04	97	7.10
7.21	99	7.26

Correlations on Male Data

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	LEFT
M1	1.00	0.83	0.76	0.67	0.56	0.82	0.75	0.64	0.51	0.87	0.82	0.83	
M2		1.00	0.95	0.89	0.79	0.66	0.86	0.81	0.71	0.68	0.90	0.95	
M3			1.00	0.96	0.87	0.58	0.86	0.86	0.80	0.61	0.87	0.91	
M4				1.00	0.93	0.51	0.82	0.86	0.85	0.51	0.78	0.83	
M5					1.00	0.40	0.73	0.80	0.84	0.43	0.68	0.74	
M6						1.00	0.73	0.59	0.43	0.83	0.72	0.70	
M7							1.00	0.92	0.81	0.68	0.89	0.87	
M8								1.00	0.91	0.57	0.80	0.80	
M9									1.00	0.41	0.68	0.69	
M10										1.00	0.78	0.77	
M11											1.00	0.96	
M12												1.00	

LEFT

	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
M1	0.74	0.76	0.65	0.70	0.55	0.58	0.15	0.22	0.12	0.25	0.15	0.21
M2	0.88	0.91	0.83	0.87	0.74	0.76	0.26	0.30	0.27	0.37	0.25	0.31
M3	0.92	0.96	0.90	0.93	0.82	0.84	0.32	0.35	0.32	0.41	0.30	0.35
M4	0.87	0.91	0.92	0.94	0.87	0.89	0.29	0.35	0.30	0.40	0.29	0.32
M5	0.80	0.83	0.86	0.88	0.90	0.94	0.27	0.30	0.29	0.39	0.24	0.29
M6	0.64	0.64	0.53	0.55	0.43	0.42	0.16	0.22	0.11	0.20	0.13	0.19
M7	0.90	0.89	0.86	0.85	0.77	0.75	0.26	0.31	0.23	0.35	0.26	0.33
M8	0.87	0.87	0.90	0.87	0.84	0.82	0.30	0.35	0.27	0.38	0.30	0.37
M9	0.80	0.79	0.89	0.85	0.89	0.87	0.29	0.35	0.29	0.38	0.29	0.37
M10	0.67	0.68	0.56	0.59	0.45	0.47	0.09	0.11	0.03	0.16	0.07	0.15
M11	0.92	0.91	0.83	0.84	0.72	0.70	0.22	0.25	0.20	0.31	0.22	0.28
M12	0.92	0.94	0.84	0.88	0.75	0.75	0.24	0.28	0.25	0.35	0.23	0.30
M13	1.00	0.95	0.92	0.91	0.83	0.82	0.25	0.31	0.25	0.36	0.25	0.30
M14		1.00	0.91	0.95	0.83	0.85	0.29	0.34	0.30	0.39	0.29	0.33
M15			1.00	0.95	0.91	0.89	0.28	0.36	0.30	0.41	0.30	0.36
M16				1.00	0.89	0.92	0.29	0.35	0.32	0.41	0.31	0.36
M17					1.00	0.94	0.23	0.30	0.30	0.37	0.24	0.33
M18						1.00	0.24	0.29	0.29	0.38	0.23	0.30
M19							1.00	0.45	0.70	0.55	0.66	0.61
M20								1.00	0.53	0.62	0.61	0.50
M21									1.00	0.67	0.67	0.67
M22										1.00	0.64	0.64
M23											1.00	0.67
M24												1.00

	LEFT											
	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36
M1	0.19	0.19	0.15	0.16	0.20	0.21	0.15	0.20	0.12	0.21	0.19	0.10
M2	0.33	0.25	0.26	0.22	0.34	0.27	0.25	0.25	0.22	0.35	0.28	0.21
M3	0.41	0.32	0.34	0.27	0.41	0.31	0.33	0.31	0.28	0.42	0.34	0.27
M4	0.39	0.27	0.31	0.26	0.42	0.29	0.33	0.30	0.28	0.41	0.35	0.26
M5	0.33	0.23	0.31	0.25	0.38	0.24	0.30	0.27	0.33	0.42	0.35	0.26
M6	0.15	0.17	0.13	0.19	0.09	0.17	0.11	0.23	0.06	0.17	0.14	0.09
M7	0.28	0.27	0.29	0.26	0.29	0.31	0.27	0.30	0.20	0.34	0.29	0.22
M8	0.32	0.29	0.34	0.28	0.34	0.32	0.33	0.34	0.27	0.39	0.34	0.25
M9	0.32	0.30	0.33	0.30	0.35	0.30	0.34	0.34	0.30	0.44	0.38	0.28
M10	0.07	0.16	0.07	0.14	0.08	0.17	0.08	0.18	0.05	0.12	0.10	0.06
M11	0.26	0.25	0.23	0.18	0.26	0.27	0.22	0.22	0.17	0.28	0.24	0.17
M12	0.30	0.27	0.23	0.23	0.29	0.27	0.24	0.25	0.20	0.31	0.25	0.18
M13	0.34	0.32	0.31	0.25	0.34	0.32	0.27	0.29	0.24	0.37	0.29	0.22
M14	0.37	0.33	0.32	0.28	0.34	0.33	0.30	0.32	0.25	0.37	0.32	0.23
M15	0.36	0.32	0.33	0.28	0.38	0.33	0.34	0.33	0.28	0.41	0.35	0.27
M16	0.39	0.32	0.33	0.30	0.39	0.33	0.34	0.34	0.30	0.42	0.36	0.27
M17	0.31	0.28	0.31	0.26	0.34	0.29	0.32	0.30	0.30	0.40	0.36	0.22
M18	0.30	0.27	0.30	0.26	0.32	0.27	0.29	0.31	0.31	0.40	0.34	0.23
M19	0.67	0.48	0.63	0.56	0.55	0.41	0.62	0.53	0.47	0.52	0.53	0.51
M20	0.51	0.58	0.60	0.47	0.47	0.55	0.51	0.44	0.49	0.52	0.55	0.38
M21	0.77	0.57	0.67	0.60	0.69	0.60	0.67	0.59	0.64	0.61	0.67	0.53
M22	0.60	0.68	0.62	0.58	0.58	0.63	0.57	0.55	0.59	0.58	0.59	0.51
M23	0.63	0.58	0.78	0.55	0.56	0.55	0.74	0.58	0.57	0.52	0.68	0.58
M24	0.61	0.58	0.63	0.72	0.53	0.56	0.65	0.60	0.55	0.60	0.63	0.61
M25	1.00	0.58	0.67	0.59	0.76	0.52	0.68	0.54	0.62	0.60	0.62	0.48
M26		1.00	0.58	0.64	0.47	0.70	0.55	0.57	0.52	0.57	0.55	0.44
M27			1.00	0.59	0.67	0.54	0.79	0.58	0.64	0.54	0.70	0.51
M28				1.00	0.52	0.62	0.62	0.70	0.55	0.59	0.60	0.61
M29					1.00	0.50	0.67	0.45	0.69	0.54	0.63	0.46
M30						1.00	0.56	0.66	0.55	0.60	0.55	0.51
M31							1.00	0.62	0.65	0.55	0.75	0.54
M32								1.00	0.52	0.54	0.56	0.62
M33									1.00	0.52	0.75	0.47
M34										1.00	0.61	0.69
M35											1.00	0.55
M36												1.00

LEFT

	M37	M38	M39	M40	M41	M42	M43	M44	M45	WT	HT
M1	0.67	0.60	0.47	0.43	0.38	0.33	0.28	0.15	0.44	0.32	0.62
M2	0.59	0.76	0.69	0.62	0.54	0.53	0.48	0.23	0.49	0.43	0.72
M3	0.56	0.67	0.77	0.68	0.59	0.58	0.53	0.29	0.53	0.46	0.69
M4	0.51	0.61	0.75	0.76	0.63	0.56	0.51	0.29	0.49	0.38	0.64
M5	0.46	0.53	0.71	0.70	0.76	0.50	0.43	0.25	0.45	0.35	0.57
M6	0.12	0.30	0.17	0.19	0.19	0.23	0.17	0.14	0.35	0.27	0.48
M7	0.35	0.33	0.35	0.35	0.31	0.48	0.41	0.25	0.42	0.41	0.60
M8	0.35	0.33	0.43	0.32	0.33	0.49	0.41	0.26	0.44	0.40	0.55
M9	0.33	0.28	0.46	0.41	0.28	0.48	0.39	0.30	0.39	0.35	0.47
M10	0.44	0.40	0.28	0.23	0.27	0.20	0.11	0.08	0.34	0.25	0.52
M11	0.50	0.56	0.50	0.43	0.39	0.43	0.38	0.22	0.44	0.42	0.67
M12	0.52	0.65	0.59	0.51	0.47	0.47	0.42	0.24	0.48	0.45	0.71
M13	0.46	0.49	0.58	0.50	0.45	0.47	0.44	0.25	0.47	0.47	0.67
M14	0.49	0.57	0.66	0.58	0.52	0.53	0.47	0.29	0.52	0.46	0.69
M15	0.44	0.45	0.60	0.57	0.46	0.51	0.45	0.29	0.48	0.43	0.60
M16	0.49	0.53	0.66	0.63	0.53	0.55	0.48	0.31	0.50	0.44	0.63
M17	0.40	0.40	0.56	0.55	0.53	0.49	0.43	0.25	0.43	0.36	0.54
M18	0.46	0.46	0.62	0.60	0.62	0.47	0.41	0.25	0.42	0.34	0.55
M19	0.06	0.14	0.27	0.15	0.13	0.57	0.51	0.41	0.47	0.40	0.16
M20	0.10	0.18	0.26	0.20	0.11	0.44	0.42	0.44	0.45	0.40	0.22
M21	0.07	0.21	0.30	0.21	0.17	0.57	0.60	0.41	0.52	0.51	0.21
M22	0.17	0.24	0.32	0.27	0.23	0.54	0.56	0.39	0.54	0.44	0.27
M23	0.09	0.14	0.24	0.16	0.07	0.51	0.46	0.47	0.44	0.41	0.07
M24	0.12	0.16	0.23	0.13	0.06	0.50	0.46	0.37	0.43	0.43	0.14
M25	0.13	0.27	0.42	0.32	0.20	0.66	0.65	0.46	0.57	0.52	0.22
M26	0.11	0.11	0.25	0.13	0.05	0.44	0.39	0.40	0.48	0.44	0.19
M27	0.10	0.12	0.27	0.14	0.15	0.54	0.49	0.42	0.47	0.46	0.13
M28	0.03	0.09	0.18	0.12	0.07	0.45	0.42	0.38	0.38	0.38	0.09
M29	0.23	0.27	0.40	0.34	0.24	0.60	0.60	0.35	0.50	0.45	0.25
M30	0.14	0.11	0.19	0.12	0.06	0.44	0.47	0.39	0.48	0.47	0.21
M31	0.12	0.13	0.27	0.19	0.13	0.56	0.53	0.45	0.49	0.47	0.15
M32	0.06	0.09	0.20	0.12	0.07	0.41	0.36	0.36	0.45	0.40	0.17
M33	0.13	0.15	0.27	0.18	0.22	0.42	0.41	0.28	0.44	0.45	0.16
M34	0.16	0.21	0.36	0.28	0.22	0.46	0.44	0.33	0.45	0.46	0.25
M35	0.15	0.15	0.27	0.21	0.16	0.48	0.49	0.34	0.44	0.45	0.19
M36	0.06	0.12	0.23	0.17	0.12	0.40	0.35	0.34	0.34	0.39	0.11
M37	1.00	0.65	0.59	0.49	0.41	0.28	0.26	0.07	0.32	0.20	0.46
M38		1.00	0.83	0.71	0.61	0.38	0.37	0.12	0.38	0.27	0.58
M39			1.00	0.83	0.70	0.49	0.46	0.23	0.47	0.34	0.54
M40				1.00	0.74	0.41	0.42	0.20	0.35	0.20	0.50
M41					1.00	0.30	0.28	0.08	0.31	0.19	0.44
M42						1.00	0.83	0.44	0.61	0.51	0.39
M43							1.00	0.35	0.55	0.50	0.43
M44								1.00	0.41	0.39	0.19
M45									1.00	0.60	0.39
WT										1.00	0.42
HT											1.00

Correlations on Male Data

	RIGHT											
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
M1	1.00	0.82	0.77	0.71	0.60	0.76	0.74	0.66	0.52	0.86	0.79	0.82
M2		1.00	0.94	0.89	0.79	0.67	0.85	0.82	0.71	0.70	0.90	0.93
M3			1.00	0.96	0.86	0.63	0.86	0.87	0.79	0.66	0.87	0.91
M4				1.00	0.93	0.58	0.82	0.87	0.83	0.59	0.81	0.84
M5					1.00	0.48	0.73	0.80	0.82	0.50	0.71	0.75
M6						1.00	0.70	0.61	0.46	0.74	0.69	0.69
M7							1.00	0.93	0.79	0.69	0.87	0.87
M8								1.00	0.91	0.59	0.81	0.81
M9									1.00	0.45	0.69	0.70
M10										1.00	0.77	0.77
M11											1.00	0.95
M12												1.00

	RIGHT											
	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
M1	0.75	0.76	0.67	0.70	0.57	0.59	0.17	0.25	0.17	0.27	0.19	0.21
M2	0.88	0.91	0.82	0.86	0.74	0.76	0.24	0.28	0.28	0.28	0.24	0.21
M3	0.93	0.96	0.90	0.92	0.82	0.82	0.28	0.30	0.30	0.32	0.25	0.26
M4	0.89	0.93	0.92	0.94	0.87	0.87	0.29	0.30	0.31	0.33	0.27	0.26
M5	0.80	0.84	0.86	0.88	0.89	0.92	0.27	0.29	0.31	0.31	0.25	0.25
M6	0.64	0.64	0.57	0.58	0.45	0.48	0.18	0.21	0.19	0.22	0.19	0.19
M7	0.88	0.87	0.83	0.83	0.75	0.73	0.25	0.28	0.24	0.25	0.22	0.20
M8	0.87	0.87	0.88	0.86	0.83	0.80	0.30	0.35	0.31	0.28	0.27	0.25
M9	0.78	0.79	0.85	0.83	0.88	0.84	0.29	0.35	0.33	0.32	0.27	0.28
M10	0.69	0.69	0.62	0.62	0.50	0.52	0.06	0.19	0.14	0.23	0.11	0.15
M11	0.92	0.90	0.85	0.85	0.73	0.73	0.22	0.24	0.27	0.30	0.20	0.22
M12	0.92	0.94	0.84	0.88	0.74	0.76	0.24	0.29	0.30	0.32	0.24	0.24
M13	1.00	0.95	0.92	0.91	0.82	0.81	0.27	0.29	0.27	0.31	0.23	0.23
M14		1.00	0.91	0.94	0.82	0.84	0.28	0.33	0.31	0.35	0.25	0.27
M15			1.00	0.96	0.91	0.88	0.32	0.33	0.31	0.35	0.26	0.28
M16				1.00	0.89	0.90	0.34	0.37	0.34	0.37	0.30	0.30
M17					1.00	0.93	0.29	0.31	0.30	0.31	0.23	0.27
M18						1.00	0.29	0.33	0.31	0.33	0.25	0.27
M19							1.00	0.53	0.63	0.47	0.64	0.54
M20								1.00	0.50	0.49	0.57	0.48
M21									1.00	0.61	0.75	0.63
M22										1.00	0.60	0.63
M23											1.00	0.66
M24												1.00

RIGHT

	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36
M1	0.24	0.16	0.19	0.15	0.27	0.11	0.19	0.15	0.14	0.19	0.18	0.10
M2	0.28	0.16	0.25	0.17	0.36	0.19	0.24	0.19	0.19	0.25	0.22	0.15
M3	0.34	0.20	0.28	0.20	0.42	0.25	0.28	0.21	0.22	0.29	0.26	0.20
M4	0.34	0.20	0.29	0.21	0.45	0.26	0.30	0.21	0.26	0.30	0.29	0.22
M5	0.31	0.17	0.30	0.20	0.43	0.24	0.30	0.19	0.30	0.30	0.30	0.23
M6	0.19	0.13	0.16	0.20	0.22	0.09	0.21	0.16	0.13	0.16	0.15	0.09
M7	0.25	0.13	0.26	0.15	0.35	0.17	0.26	0.15	0.18	0.23	0.22	0.15
M8	0.29	0.17	0.31	0.19	0.40	0.25	0.29	0.22	0.23	0.28	0.28	0.21
M9	0.30	0.17	0.30	0.21	0.39	0.26	0.27	0.27	0.28	0.32	0.32	0.24
M10	0.17	0.15	0.15	0.10	0.22	0.13	0.14	0.09	0.13	0.21	0.14	0.05
M11	0.28	0.21	0.25	0.17	0.37	0.24	0.23	0.20	0.20	0.25	0.17	0.17
M12	0.30	0.21	0.26	0.20	0.37	0.24	0.26	0.20	0.21	0.28	0.20	0.18
M13	0.31	0.21	0.28	0.17	0.40	0.23	0.25	0.18	0.20	0.28	0.20	0.19
M14	0.35	0.24	0.29	0.22	0.41	0.27	0.28	0.22	0.24	0.31	0.26	0.21
M15	0.34	0.23	0.31	0.22	0.45	0.28	0.30	0.23	0.25	0.31	0.28	0.24
M16	0.36	0.26	0.34	0.26	0.45	0.31	0.33	0.27	0.27	0.34	0.30	0.26
M17	0.30	0.17	0.31	0.19	0.41	0.24	0.25	0.21	0.26	0.29	0.27	0.24
M18	0.33	0.21	0.32	0.23	0.41	0.27	0.25	0.25	0.30	0.32	0.29	0.25
M19	0.64	0.44	0.59	0.49	0.54	0.38	0.60	0.48	0.38	0.43	0.52	0.46
M20	0.53	0.48	0.56	0.46	0.42	0.42	0.47	0.39	0.38	0.44	0.48	0.40
M21	0.73	0.51	0.70	0.59	0.62	0.56	0.69	0.55	0.60	0.56	0.67	0.50
M22	0.60	0.65	0.59	0.56	0.55	0.61	0.58	0.55	0.54	0.53	0.59	0.47
M23	0.70	0.53	0.80	0.58	0.60	0.53	0.76	0.59	0.61	0.52	0.72	0.56
M24	0.56	0.56	0.62	0.69	0.53	0.55	0.64	0.57	0.52	0.57	0.65	0.55
M25	1.00	0.55	0.70	0.55	0.72	0.50	0.66	0.50	0.57	0.55	0.63	0.49
M26		1.00	0.54	0.60	0.43	0.69	0.56	0.53	0.44	0.54	0.51	0.43
M27			1.00	0.59	0.63	0.53	0.80	0.56	0.61	0.54	0.73	0.48
M28				1.00	0.50	0.63	0.65	0.67	0.50	0.56	0.60	0.56
M29					1.00	0.49	0.64	0.41	0.65	0.49	0.64	0.45
M30						1.00	0.58	0.64	0.50	0.63	0.56	0.50
M31							1.00	0.59	0.59	0.55	0.77	0.55
M32								1.00	0.51	0.52	0.57	0.61
M33									1.00	0.48	0.71	0.45
M34										1.00	0.53	0.64
M35											1.00	0.51
M36												1.00

	RIGHT										
	M37	M38	M39	M40	M41	M42	M43	M44	M45	WT	HT
M1	0.68	0.60	0.53	0.48	0.40	0.41	0.33	0.10	0.39	0.30	0.62
M2	0.51	0.79	0.70	0.61	0.49	0.54	0.46	0.09	0.42	0.39	0.69
M3	0.48	0.68	0.79	0.69	0.52	0.57	0.48	0.14	0.47	0.44	0.70
M4	0.44	0.63	0.78	0.77	0.59	0.56	0.49	0.15	0.46	0.43	0.66
M5	0.38	0.56	0.70	0.72	0.72	0.49	0.45	0.15	0.42	0.37	0.59
M6	0.05	0.38	0.31	0.30	0.27	0.30	0.25	0.15	0.30	0.29	0.43
M7	0.35	0.36	0.38	0.34	0.30	0.45	0.39	0.13	0.39	0.40	0.59
M8	0.33	0.38	0.48	0.35	0.28	0.47	0.40	0.14	0.41	0.43	0.57
M9	0.28	0.35	0.50	0.40	0.20	0.42	0.35	0.17	0.41	0.41	0.52
M10	0.49	0.44	0.37	0.36	0.30	0.28	0.23	0.07	0.36	0.30	0.51
M11	0.44	0.59	0.56	0.49	0.39	0.46	0.41	0.10	0.40	0.41	0.66
M12	0.48	0.65	0.62	0.55	0.44	0.51	0.45	0.11	0.45	0.42	0.68
M13	0.44	0.55	0.64	0.56	0.43	0.50	0.46	0.14	0.44	0.45	0.67
M14	0.46	0.60	0.71	0.63	0.48	0.53	0.47	0.18	0.49	0.46	0.68
M15	0.39	0.50	0.64	0.60	0.44	0.48	0.46	0.18	0.47	0.47	0.62
M16	0.43	0.57	0.69	0.66	0.51	0.51	0.48	0.19	0.49	0.45	0.63
M17	0.38	0.44	0.59	0.56	0.46	0.44	0.37	0.15	0.41	0.40	0.55
M18	0.38	0.50	0.63	0.61	0.56	0.44	0.40	0.21	0.43	0.37	0.56
M19	0.06	0.13	0.21	0.17	0.11	0.51	0.50	0.35	0.39	0.37	0.17
M20	0.14	0.17	0.22	0.11	0.08	0.38	0.33	0.45	0.42	0.32	0.17
M21	0.05	0.21	0.25	0.18	0.13	0.53	0.53	0.45	0.49	0.51	0.20
M22	0.17	0.20	0.27	0.26	0.15	0.48	0.49	0.49	0.51	0.45	0.21
M23	0.08	0.18	0.20	0.16	0.11	0.53	0.53	0.47	0.47	0.43	0.11
M24	0.11	0.15	0.23	0.16	0.09	0.44	0.43	0.50	0.47	0.41	0.09
M25	0.16	0.21	0.33	0.27	0.17	0.59	0.60	0.43	0.53	0.51	0.25
M26	0.10	0.13	0.22	0.16	0.08	0.35	0.35	0.52	0.51	0.41	0.14
M27	0.12	0.14	0.21	0.15	0.15	0.52	0.51	0.46	0.52	0.49	0.16
M28	0.01	0.13	0.19	0.15	0.10	0.39	0.42	0.52	0.50	0.35	0.07
M29	0.16	0.24	0.35	0.34	0.26	0.51	0.55	0.39	0.55	0.49	0.30
M30	0.07	0.15	0.25	0.17	0.10	0.39	0.42	0.40	0.53	0.42	0.12
M31	0.06	0.13	0.21	0.19	0.19	0.55	0.57	0.50	0.59	0.50	0.17
M32	0.05	0.16	0.20	0.12	0.00	0.40	0.38	0.42	0.51	0.33	0.15
M33	0.07	0.12	0.18	0.19	0.17	0.41	0.39	0.45	0.48	0.43	0.17
M34	0.12	0.18	0.27	0.20	0.12	0.41	0.45	0.36	0.52	0.44	0.18
M35	0.11	0.13	0.21	0.18	0.11	0.48	0.50	0.47	0.54	0.46	0.15
M36	0.06	0.10	0.19	0.16	0.10	0.40	0.39	0.37	0.41	0.37	0.12
M37	1.00	0.49	0.46	0.40	0.32	0.29	0.24	-0.02	0.26	0.13	0.47
M38		1.00	0.81	0.70	0.53	0.45	0.37	0.00	0.30	0.23	0.55
M39			1.00	0.86	0.60	0.50	0.42	0.10	0.40	0.32	0.57
M40				1.00	0.75	0.45	0.41	0.10	0.33	0.26	0.52
M41					1.00	0.34	0.34	0.04	0.23	0.13	0.38
M42						1.00	0.83	0.26	0.51	0.48	0.49
M43							1.00	0.24	0.50	0.46	0.45
M44								1.00	0.46	0.42	0.01
M45									1.00	0.62	0.33
WT										1.00	0.42
HT											1.00

MALE

Summary Statistics

	<u>Median</u>	Mean	Standev	Minimum	Maximum
Age (years)	37.0	38.3	12.7	16.0	65.0
Weight (Kg)	73.9	74.0	11.0	51.0	129.0
Height (cm)	173.2	173.5	6.8	152.5	191.5

Preferred Hand

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth & Pollux	Hand Thickness	Wrist Breadth
Left Handed	48	L	19.23	2.12	2.28	10.54	3.29	6.35
		R	19.23	2.13	2.30	10.55	3.27	6.46
Right Handed	252	L	19.08	2.13	2.25	10.49	3.20	6.34
		R	18.97	2.17	2.31	10.59	3.31	6.43

Occupation

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth & Pollux	Hand Thickness	Wrist Breadth
Light manual or technical	252	L	19.10	2.12	2.25	10.48	3.21	6.35
		R	19.01	2.15	2.29	10.56	3.28	6.44
Medium to heavy manual	48	L	19.18	2.19	2.31	10.63	3.27	6.27
		R	18.98	2.22	2.37	10.74	3.45	6.43

MALE 2

Age

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth & Pollux	Hand Thickness	Wrist Breadth
16-30 yrs	95	L	19.09	2.05	2.17	10.35	3.08	6.21
		R	19.02	2.09	2.20	10.46	3.14	6.30
31-40 yrs	80	L	19.72	2.10	2.25	10.50	3.21	6.32
		R	19.15	2.15	2.28	10.62	3.27	6.43
41-50 yrs	62	L	19.10	2.21	2.31	10.62	3.27	6.41
		R	18.98	2.23	2.37	10.71	3.36	6.50
51-65 yrs	63	L	19.00	2.19	2.34	10.61	3.36	6.49
		R	18.84	2.21	2.40	10.63	3.54	6.58

Geographical Location

	No.	Side	Digit 3 lth to wrist	Pollux Depth	Pollux Breadth	Hand Breadth & Pollus	Hand Thickness	Wrist Breadth
Sheffield	61	L	18.92	2.11	2.24	10.42	3.20	6.40
		R	18.83	2.16	2.29	10.47	3.37	6.52
Mid- Lancashire	78	L	19.24	2.17	2.30	10.60	3.24	6.33
		R	19.11	2.20	2.36	10.73	3.35	6.46
Merseyside	38	L	18.98	2.04	2.09	10.33	3.04	6.13
		R	18.93	2.09	2.15	10.46	3.07	6.20
South Wales	33	L	18.97	2.13	2.28	10.53	3.28	6.36
		R	18.84	2.16	2.36	10.54	3.43	6.54
Nottingham	4	L	19.59	2.15	2.34	10.61	3.14	6.48
		R	19.33	2.19	2.40	10.50	3.20	6.44
Birmingham	7	L	19.16	2.06	2.18	10.52	3.15	6.36
		R	19.16	2.14	2.23	10.43	3.16	6.29
North London	5	L	18.65	2.30	2.37	10.67	3.23	6.54
		R	18.40	2.35	2.62	10.65	3.24	6.57
Bedfordshire	67	L	19.22	2.11	2.29	10.50	3.27	6.34
		R	19.15	2.14	2.29	10.61	3.30	6.41
Greater Manchester	7	L	19.53	2.24	2.29	10.70	3.09	6.58
		R	19.44	2.14	2.29	10.61	3.30	6.41

BIBLIOGRAPHY

(A) General Anthropometry

- ANON 1978. "Anthropometric Source Book, NASA RP1024, Volume 1.
- GARRETT, J.W. & KENNEDY, K.W. 1971. "A Collation of Anthropometry" (2 vols), U.S.Govt.Rept. AD 723 630.
- CRONEY, J., 1971. "Anthropometrics for Designers" Von Nostrand, New York.
- ASHLEY MONTAGU, M.F., 1960. "A Handbook of Anthropometry" Charles G. Thomas, Springfield, Illinois.
- DAMON, A., STOUT, H.W. & MCFARLAND, R.A., 1971. "The Human Body in Equipment Design" Harvard Univ. Press, Cambridge, Mass.
- HERTZBERG, H.T.E., 1963. "Engineering Anthropology (in Human Engineering Guide to Equipment Design, H.P. Van Cott, R.G. Kinkade) pp 467-584.
- ROEBUCK, J.A., KROEMER, K.H.E. & THOMSON, W.G., 1975. "Engineering Anthropometry Methods". John Wiley, New York.

(B) Hand Anthropometry

- BAKER, P., MCKENDRY, J.M. & GRANT, G., 1961. "Anthropometry of One-Handed Maintenance Actions". TR NAGTRADEVCCEN 330-1-3, U.S. Naval Training Device Centre, Port Washington, N.Y.
- BARTER, J.T. & ALEXANDER, M., 1956. "A Sizing System for High Altitude Gloves". U.S. Govt.Rept.AD-110-589.
- CHURCHILL, E., KUBY, A. & DANIELS, G.S., 1957. "Nomograph of the Hand and its Related Dimensions". U.S.Govt.Rept. AD-118-162.
- COURTNEY, A.J. & DAVIES, B.T., 1979. "A minimum square measuring device for hand anthropometry". Ergonomics 22/12, 1371-1373.
- DAVIES, B.T., ABADA, A., BENSON, K. & COURTNEY, A., 1980. "Female Hands and Guarding of Machines". Ergonomics 23/1, 79-84.
- DAVIES, B.T., ABADA, A., BENSON, K. & COURTNEY, A., 1980. "A comparison of hand anthropometry of females in three ethnic groups". Ergonomics 23/2, 179-182.
- DEMPSTER, W.T., GABEL, W.C. & FELTS, W.J.L., 1959. "The Anthropometry of the Manual Work Space for the Seated Subject". Am.J.Physical Anthropol., 17/4, 289-317.

- GARRETT, J.W., 1971. "An Introduction to Relaxed Hand Anthropometry". U.S.Govt.Rept. AD-731-183.
- GARRETT, J.W., 1970. "Anthropometry of the Air Force Female's Hand". U.S.Govt.Rept. AD-710-202.
- GARRETT, J.W., 1970. "Anthropometry of the Hands of Male Air Force Flight Personnel". U.S.Govt.Rept. AD-709-883.
- GARRETT, J.W., 1968. "Clearance and Performance Values for the Barehanded and Pressure Gloved Operator". U.S.Govt. Rept. AD-681-457.
- GARRETT, J.W., 1971. "The Adult Human Hand: Some Anthropometric and Biomechanical considerations". Hum.Factors 13/2, 117-131.
- JONES, C.E., KOBRICK, J.L. & GAYDOS, H.F., 1958. "Anthropometric and Biomechanical Characteristics of the Hand". U.S.Govt.Rept. AD-204-867.
- MINTO, I., 1979. "Arthropometry of Female Hands and Machine Guarding". Paper at IEA Conf. Warsaw, Aug. 27-31.
- NAPIER, J., 1980. "Hands". Allen & Unwin, London.
- SALTER, N. & DARCUS, H.D., 1952. "The Effect of the Degree of Elbow Flexion on the Maximum Torques Developed in Pronation and Supination of the Right Hand". J.Anst. 85, 197-202.
- SALVENDY, G., 1971. "Hand Size and Assembly Performance". AIIE Trans. 3/1, 32-36.
- THORSEN, M.L., KROEMER, K.H.E. & LAUBACH, L.L., 1972. "Human Force Exertions in Aircraft Control Locations". U.S.Govt. Rept. AD-740-930.
- VICINUS, J.H., 1962. "X-ray Anthropometry of the Hand". U.S.Govt.Rept. AD-291-412.

Percentiles derived from the mean and standard deviationPercentile

1st	Mean	- 2.326	SD
2nd	Mean	- 2.054	SD
3rd	Mean	- 1.881	SD
4th	Mean	- 1.751	SD
5th	Mean	- 1.645	SD
6th	Mean	- 1.555	SD
7th	Mean	- 1.476	SD
8th	Mean	- 1.405	SD
9th	Mean	- 1.341	SD
10th	Mean	- 1.282	SD
15th	Mean	- 1.036	SD
20th	Mean	- 0.842	SD
25th	Mean	- 0.674	SD
30th	Mean	- 0.524	SD
35th	Mean	- 0.385	SD
40th	Mean	- 0.253	SD
45th	Mean	- 0.126	SD
50th	Mean		
55th	Mean	+ 0.126	SD
60th	Mean	+ 0.253	SD
65th	Mean	+ 0.385	SD
70th	Mean	+ 0.524	SD
75th	Mean	+ 0.674	SD
80th	Mean	+ 0.842	SD
85th	Mean	+ 1.036	SD
90th	Mean	+ 1.282	SD
91st	Mean	+ 1.341	SD
92nd	Mean	+ 1.405	SD
93rd	Mean	+ 1.476	SD
94th	Mean	+ 1.555	SD
95th	Mean	+ 1.645	SD
96th	Mean	+ 1.751	SD
97th	Mean	+ 1.881	SD
98th	Mean	+ 2.054	SD
99th	Mean	+ 2.326	SD

Organisations which took part in the survey

AEC Limited
British Home Stores Limited
Cranfield Institute of Technology
The Curtain Centre (Nottingham)
H.J. Heinz Company Limited
Hindley Brothers (Blackburn)
Leyland Vehicles Limited (Truck & Bus Division)
Marks and Spencer Limited
Pilkington Brothers Limited
Rank Xerox (Engineering Group)
Record Ridgway Tools Limited
Steel Castings and Allied Trades Research Association
University of Aston in Birmingham
Wilkinson Sword Limited
Wolf Electric Tools Limited.