1995 U.S. NAVY/MARINE CORPS MATCHED MALE AND FEMALE ANTHROPOMETRIC ELIGIBLE PILOT DATABASES

4 June 1997

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<tr>
<td>Claire C. Gordon</td>
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<td>Heather M. Foti</td>
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<td>Sarah M. Donelson</td>
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<td>Point of Contact: Claire C. Gordon (508) 233-5429</td>
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United States Navy
Naval Air Warfare Center

1995 US Navy/Marine Corps Matched Male and Female Anthropometric Eligible Pilot Databases

By

Claire C. Gordon
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Natick, Massachusetts 01760

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Colleen Swavely (215) 441-3535

September 1995
PREFACE

This report presents a derived database describing the anthropometry of a potential future United States Naval/Marine Corps (hereafter referred to as "Naval") aviation population. The creation of this database was in response to a Congressional mandate to expand present design specifications to ensure that future military equipment will fit a larger proportion of the United States population. By accommodating more people, occupational choices will not be substantially limited by fit and accommodation issues.

Anthropometric databases containing extensive body size and shape information are critical for the proper design and sizing of military clothing, equipment, and workstations. The last anthropometric survey of Naval aviators was conducted in 1964 on men only. No valid anthropometric data has been collected on female aviators. Statistical matching procedures were used to create an updated Naval aviation anthropometric database of 70 dimensions for males and females from the 1988 Anthropometric Survey of US Army Personnel (ANSUR). The summary statistics and descriptions of the 70 selected dimensions are presented along with correlations, regression equations, and bivariate frequency tables.

This database should be used with the caution that because it represents a future population, it cannot be known how well it will represent that population. Future changes in immigration trends, military induction policy, and other variables may affect representivity. Nonetheless, this database represents a scientific, rational approach toward complying with the Congressional mandate.
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1995 US NAVY/MARINE CORPS MATCHED MALE AND FEMALE ANTHROPOMETRIC ELIGIBLE PILOT DATABASES

CHAPTER I
ELIGIBLE PILOT DATABASES

INTRODUCTION

All US Military and many foreign services compile and maintain extensive collections of body size information used primarily to guide the design and sizing of clothing, personal protective equipment, work stations, and computer-generated human models. In order to be effective, such a database must be updated periodically to accurately reflect the body sizes and proportions of the military population it purports to represent.

The US Navy requested that statistically matched male and female eligible pilot databases be created for use in the design of clothing, individual equipment, and workstations for future Navy/Marine Corps (MC) flying populations. The creation of a database representing a potential future population has been necessitated by Congressional orders that mandate the expansion of present design specifications so that future military equipment will fit a larger proportion of the United States population, thereby increasing an individual's choice of military occupations. If equipment is not designed in this manner, capable soldiers may not be able to choose a specific occupation simply because the cockpit, workstation, or protective clothing do not fit properly. Implementation of the Congressional mandate will allow under-represented groups to fully participate in military service.

DATABASE MATCHING

To successfully create a statistically matched anthropometric database, the demographic distribution of the target population must first be determined. Age and race are the primary demographic variables to be controlled since together they explain a large proportion of the anthropometric variation present in a given population. Before statistically matched databases could be created, the most likely age and race profile of the eligible pilot population had to be determined. In addition, certain requirements integral to the pilot mission, such
Table 1. June 1994 Navy/MC Male Pilot Population

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<tr>
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2
as educational level, must be considered when identifying the eligible pilot population in the US. Therefore, educational attainment must also play a significant role in a database designed to represent this population.

Based upon the premise that a student pilot must have a college degree, it is implied that a college graduate is also a potential pilot. Therefore, Department of Education (DOE) data describing the frequency of Bachelor's degrees conferred in the United States by racial group were chosen as a model for the racial distribution of a potential pilot population (see Tables 3 and 4). The DOE data are more appropriate than census data, such as the Educational Attainment Survey, because census data are self-reported, thus inviting error associated with memory recall. In addition, census data account only for some fraction of the population, thereby not providing a true account of the racial distribution of all college graduates. Census data may also be fraught with other types of error4.

The DOE demographic data for Bachelor's degrees conferred by institutions of higher education during the years 1989-1990, 1990-1991, 1991-1992 provided the basis for estimating the racial distribution of the eligible pilot population. These were the most recent data available at the time of the study. Male and female data were addressed separately, and non-resident aliens were not included since they cannot serve in the US military. For use in the statistical matching process, a three year average was computed from these data for all five racial groups (White, non-Hispanic; Black, non-Hispanic; Hispanic; Asian/Pacific Islander; and American Indian/Alaskan Native) for both males and females (Tables 3 and 4). Taking an average of the conferral rates is preferred over using the rates from an individual year because averaging stabilizes the contribution of smaller minority groups and provides the most statistically conservative approach5.

| Table 3. Male Department of Education Race Distribution of Bachelor's Degrees Conferred |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| White                           | 87.74%          | 86.82%          | 85.93%          | 86.83%          |
| Black                           | 4.93%           | 5.08%           | 5.39%           | 5.14%           |
| Hispanic                        | 3.17%           | 3.38%           | 3.59%           | 3.38%           |
| Asian                           | 4.18%           | 4.32%           | 4.65%           | 4.38%           |
| Am Indian                       | 0.39%           | 0.40%           | 0.44%           | 0.41%           |
Table 4. Female Department of Education Race Distribution of Bachelor’s Degrees Conferred

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<td>3.90%</td>
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<tr>
<td>Am Indian</td>
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<td>0.46%</td>
<td>0.50%</td>
<td>0.47%</td>
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The demographic profile of the Navy/MC combined pilot population, as defined by Defense Manpower Data Center (DMDC) for June of 1994, was used as a basis for the age distribution of the matched databases. The present Navy/MC pilot age profile was selected as a stable indicator of the age distribution normally seen in the Navy/MC flying population. This distribution is a result of requiring prospective student pilots to be college graduates, as well as promotion and retention practices within the Navy (see Tables 1 and 2). Since loglinear modeling did not indicate a statistically significant difference in the race-specific age distributions, the overall age distribution was applied to each of the race categories. The three year averaged DOE race distribution was combined with the overall Navy/MC pilot age distribution to create a demographic age/race matrix from which to derive the Navy matched database (see Tables 5 and 6).

Because of recent trends to design protective clothing and equipment for tri-service use, loglinear modeling was used to compare the Navy/MC and Air Force age distributions for both male and female flying personnel (see Figures 1 and 2). Significant differences were present for the males, but not the females. The Air Force male age distribution is slightly older than that of the Navy/MC males. Since the Navy requested the database and funded the necessary research, the Navy/MC age distribution was utilized in the matching process. Considering that age is a significant component of anthropometric variation, the derived male database, in particular, should not be used to design clothing, equipment, or workstations for any eligible pilot population other than the Navy/MC without very careful consideration.

The eligible subjects were randomly selected from the male and female 1988 Anthropometric Survey of US Army Personnel (ANSUR) data pool if they were 23 years of age or older, and belonged to one of five racial groups (White, Black, Hispanic, Asian/Pacific Islander, and American Indian/Native Alaskan). The total number of eligible males was 2,935 and the number of eligible females was 2,102. The data pool was not truncated on the current anthropometric standards for entrance into flight school as the goal of the database is to ensure
Table 5. Estimated Demographics for Male Eligible Pilot Population

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<th>Black</th>
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<td>1.91%</td>
<td>1.25%</td>
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<td>1.62%</td>
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<td>31-35</td>
<td>21.88%</td>
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<td>≥ 36</td>
<td>28.38%</td>
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<td>1.43%</td>
<td>32.72%</td>
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<tr>
<td>Totals</td>
<td>86.83%</td>
<td>5.14%</td>
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Discrepancies due to errors in rounding.

Table 6. Estimated Demographics for Female Eligible Pilot Population

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Discrepancies due to errors in rounding.
Figure 1. Male Age Distributions, Navy/MC and AF, June '94

Figure 2. Female Age Distributions, Navy/MC and AF, June '94
that future crew stations are designed to accommodate 80% of all US females and 95% of all US males who meet the age and educational criteria for entrance into flight school.

Stratified random selection was employed to create a demographically matched anthropometric database that emulates the race distribution of current eligible pilots, as estimated by the DOE data, and the present US Navy/MC pilot age distribution (see Tables 7 and 8). A total of four male (n=738) and four female (n=582) matched databases were created and the most central database for Stature and Weight was selected (Tables 9 and 10). Match 1 was selected for both males and females.

The databases were delivered to the US Navy on magnetic media and contain all 132 anthropometric dimensions measured during ANSUR. For a detailed discussion of ANSUR and information on all of the measured dimensions, please refer to the 1988 Anthropometric Survey of US Army Personnel: Methods and Summary Statistics\(^6\). A carefully chosen selection of 70 dimensions from the US Navy/MC eligible pilot databases are summarized in this report. Chapter II begins with a complete description of all anthropometric landmarks used as reference points to measure the 70 summarized dimensions. The summary statistics and descriptions of the dimensions follow. The next chapter contains correlations, while Chapter IV presents bivariate tables for pairs of dimensions frequently used as key dimensions. The final chapter contains regression equations that can be used to predict critical design values from a specified pair of key dimensions.
Table 7. Demographic Distribution of Male Matched Database

<table>
<thead>
<tr>
<th>Age</th>
<th>White</th>
<th>Black</th>
<th>Hispanic</th>
<th>Am Indian</th>
<th>Asian</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-25</td>
<td>32</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>4.30%</td>
<td>0.30%</td>
<td>0.10%</td>
<td>0.00%</td>
<td>0.30%</td>
<td>5.00%</td>
</tr>
<tr>
<td>26-30</td>
<td>237</td>
<td>14</td>
<td>9</td>
<td>1</td>
<td>12</td>
<td>273</td>
</tr>
<tr>
<td></td>
<td>32.10%</td>
<td>1.90%</td>
<td>1.20%</td>
<td>0.10%</td>
<td>3.30%</td>
<td>37.10%</td>
</tr>
<tr>
<td>31-35</td>
<td>161</td>
<td>10</td>
<td>6</td>
<td>1</td>
<td>8</td>
<td>186</td>
</tr>
<tr>
<td></td>
<td>21.80%</td>
<td>1.40%</td>
<td>0.80%</td>
<td>0.10%</td>
<td>1.10%</td>
<td>22.30%</td>
</tr>
<tr>
<td>≥ 36</td>
<td>209</td>
<td>13</td>
<td>8</td>
<td>1</td>
<td>11</td>
<td>242</td>
</tr>
<tr>
<td></td>
<td>28.30%</td>
<td>1.80%</td>
<td>1.10%</td>
<td>0.10%</td>
<td>1.50%</td>
<td>32.60%</td>
</tr>
<tr>
<td>Totals</td>
<td>639</td>
<td>39</td>
<td>24</td>
<td>3</td>
<td>33</td>
<td>738</td>
</tr>
<tr>
<td></td>
<td>86.60%</td>
<td>5.30%</td>
<td>3.30%</td>
<td>0.40%</td>
<td>4.50%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

Discrepancies due to errors in rounding.

Table 8. Demographic Distribution of Female Matched Database

<table>
<thead>
<tr>
<th>Age</th>
<th>White</th>
<th>Black</th>
<th>Hispanic</th>
<th>Am Indian</th>
<th>Asian</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-25</td>
<td>74</td>
<td>6</td>
<td>3</td>
<td>12</td>
<td>3</td>
<td>86</td>
</tr>
<tr>
<td></td>
<td>12.71%</td>
<td>1.03%</td>
<td>0.51%</td>
<td>2.06%</td>
<td>0.51%</td>
<td>14.78%</td>
</tr>
<tr>
<td>26-30</td>
<td>253</td>
<td>21</td>
<td>11</td>
<td>2</td>
<td>11</td>
<td>302</td>
</tr>
<tr>
<td></td>
<td>43.47%</td>
<td>3.61%</td>
<td>1.89%</td>
<td>0.34%</td>
<td>1.89%</td>
<td>51.89%</td>
</tr>
<tr>
<td>31-35</td>
<td>110</td>
<td>9</td>
<td>5</td>
<td>1</td>
<td>5</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>18.90%</td>
<td>1.55%</td>
<td>0.86%</td>
<td>0.17%</td>
<td>0.86%</td>
<td>22.34%</td>
</tr>
<tr>
<td>≥ 36</td>
<td>58</td>
<td>5</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>9.96%</td>
<td>0.86%</td>
<td>0.34%</td>
<td>0.68%</td>
<td>0.51%</td>
<td>11.68%</td>
</tr>
<tr>
<td>Totals</td>
<td>495</td>
<td>41</td>
<td>21</td>
<td>3</td>
<td>22</td>
<td>582</td>
</tr>
<tr>
<td></td>
<td>85.05%</td>
<td>7.04%</td>
<td>3.61%</td>
<td>0.52%</td>
<td>3.78%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

Discrepancies due to errors in rounding.
Table 9. Stature and Weight Summary Statistics of the Male Matched Databases

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>St Dev</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Total N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Match 1*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1760.71</td>
<td>68.66</td>
<td>1497</td>
<td>1955</td>
<td>738</td>
</tr>
<tr>
<td>Weight</td>
<td>625.69</td>
<td>115.30</td>
<td>529</td>
<td>1169</td>
<td>738</td>
</tr>
<tr>
<td>Match 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1760.00</td>
<td>67.42</td>
<td>1526</td>
<td>1954</td>
<td>738</td>
</tr>
<tr>
<td>Weight</td>
<td>803.71</td>
<td>113.61</td>
<td>534</td>
<td>1169</td>
<td>738</td>
</tr>
<tr>
<td>Match 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1762.66</td>
<td>68.35</td>
<td>1497</td>
<td>1954</td>
<td>738</td>
</tr>
<tr>
<td>Weight</td>
<td>807.34</td>
<td>115.85</td>
<td>545</td>
<td>1214</td>
<td>738</td>
</tr>
<tr>
<td>Match 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1760.53</td>
<td>67.70</td>
<td>1497</td>
<td>1954</td>
<td>738</td>
</tr>
<tr>
<td>Weight</td>
<td>803.42</td>
<td>115.20</td>
<td>529</td>
<td>1169</td>
<td>738</td>
</tr>
</tbody>
</table>

*Match 1 was chosen as the US Navy/MC Male Eligible Pilot Database

Table 10. Stature and Weight Summary Statistics of the Female Matched Databases

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>St Dev</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Total N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Match 1*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1632.84</td>
<td>68.60</td>
<td>1428</td>
<td>1870</td>
<td>582</td>
</tr>
<tr>
<td>Weight</td>
<td>625.69</td>
<td>87.92</td>
<td>389</td>
<td>967</td>
<td>582</td>
</tr>
<tr>
<td>Match 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1632.83</td>
<td>64.59</td>
<td>1428</td>
<td>1870</td>
<td>582</td>
</tr>
<tr>
<td>Weight</td>
<td>623.59</td>
<td>90.32</td>
<td>389</td>
<td>923</td>
<td>582</td>
</tr>
<tr>
<td>Match 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1632.22</td>
<td>66.28</td>
<td>1428</td>
<td>1870</td>
<td>582</td>
</tr>
<tr>
<td>Weight</td>
<td>625.63</td>
<td>90.62</td>
<td>389</td>
<td>957</td>
<td>582</td>
</tr>
<tr>
<td>Match 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stature</td>
<td>1635.84</td>
<td>65.84</td>
<td>1428</td>
<td>1836</td>
<td>582</td>
</tr>
<tr>
<td>Weight</td>
<td>627.13</td>
<td>87.83</td>
<td>389</td>
<td>967</td>
<td>582</td>
</tr>
</tbody>
</table>

*Match 1 was chosen as the US Navy/MC Female Eligible Pilot Database
CHAPTER II
SUMMARY STATISTICS

THE LANDMARKS

Dimensions are measured from one point on the body (or a fixed surface such as the floor) to another or, in the case of circumferences, around a part of the body at a specified level. To ensure that each dimension is measured accurately and consistently from subject to subject, dimensions are defined in terms of body landmarks, which serve as the origin, termination, or level of measurement of a dimension.

The landmarks used to define the measurements summarized in this report are listed and briefly described on the following pages. Detailed illustrated instructions for locating these landmarks can be found in the Measurer’s Handbook: US Army Anthropometric Survey 1987-1988.7

<table>
<thead>
<tr>
<th>Landmark Definitions and Illustrations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abdominal point, anterior:</strong> The most protruding point of the relaxed abdomen of a seated subject.</td>
</tr>
<tr>
<td><strong>Acromion, right and left:</strong> The point of intersection of the lateral border of the acromial process and a line running down the middle of the shoulder from the neck to the tip of the shoulder.</td>
</tr>
<tr>
<td><strong>Biceps point:</strong> The highest point of the right flexed biceps as viewed from the subject's right side.</td>
</tr>
<tr>
<td><strong>Bustpoint, right and left:</strong> The anterior points of the bra cups.</td>
</tr>
<tr>
<td><strong>Buttock point, posterior:</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>Point of maximum protrusion of the right buttock of a standing subject.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Calf:</strong></th>
<th><strong>Cervicale:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A point on the side of the calf at the level of the maximum circumference of the right calf.</td>
<td>The superior palpable point of the spine of the seventh cervical vertebra.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dactylion III, right and left:</strong></th>
<th><strong>Deltoid point, right and left:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The tip of the middle finger.</td>
<td>The lateral point of the right deltoide muscle, and the margin of the left deltoide muscle at the level of the right deltoide point.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dorsal juncture of the calf and thigh:</strong></th>
<th><strong>Dorsal juncture of the foot and leg:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The juncture between the right calf and thigh behind the knee of a subject sitting with the knee flexed 90 degrees.</td>
<td>The top of a skin crease between the right foot and the front of the ankle when the knees and ankles are flexed about 30 degrees.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ectocanthus:</strong></th>
<th><strong>Elbow crease:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The outside corner of the right eye formed by the meeting of the upper and lower eyelids.</td>
<td>The skin crease on the inside of the right elbow joint when the elbow is flexed 90 degrees.</td>
</tr>
<tr>
<td><strong>Gluteal furrow point:</strong></td>
<td><strong>Infrahypoid:</strong> The inferior point in the midsagittal plane of the thyroid cartilage (Adam's apple).</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The lowest point of the lowest furrow or crease at the juncture of the right buttock and the thigh.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Inner thigh:</strong> A vertical line halfway between the front and back of the right inner thigh, and extending downward from the level of the gluteal furrow.</th>
<th><strong>Knee point, anterior:</strong> The most protruding point of the right kneecap of a seated subject.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Lateral malleolus:</strong> The lateral point of the right lateral malleolus (outside ankle bone).</th>
<th><strong>Midpatella:</strong> The anterior point halfway between the top and bottom of the right patella (kneecap).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Midshoulder:</strong> The point on the top of the right shoulder midway between the neck (right trapezius point) and the tip of the shoulder (acromion, right).</th>
<th><strong>Midspine:</strong> A line down the center of the back.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Neck, anterior, right lateral and left lateral:</strong> Anterior and lateral points at the base of the neck.</th>
<th><strong>Olecranon, bottom and rear:</strong> The lowest and rearmost points of the right elbow with the elbow flexed 90 degrees.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th><strong>Olecranon, center:</strong> A point on the center of the curvature of the right olecranon process with the elbow flexed about 115 degrees.</th>
<th><strong>Scye, anterior on torso:</strong> A short horizontal line on the torso originating at the apex of the right anterior axillary fold.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scye, anterior on upper arm:</strong> A short horizontal line on the upper arm originating at the apex of the right anterior axillary fold.</td>
<td><strong>Scye, midsceye, right and left:</strong> A short horizontal line bisecting the posterior diagonal scye landmark.</td>
</tr>
<tr>
<td><strong>Scye, midspine:</strong> A short, horizontal line across the spine at the level of the posterior horizontal scye landmarks.</td>
<td><strong>Scye, posterior diagonal, right and left:</strong> A diagonal line connecting the apex of the posterior axillary fold with the acromion landmark on the tip of the shoulder.</td>
</tr>
<tr>
<td><strong>Scye, posterior horizontal, right and left:</strong> A short horizontal line on the back originating at the apex of the posterior axillary fold.</td>
<td><strong>Scye, posterior vertical, right and left:</strong> A short vertical line originating at the apex of the posterior axillary fold.</td>
</tr>
<tr>
<td><strong>Stylium:</strong> The lowest point of the bottom of the right radius.</td>
<td><strong>Suprapatella:</strong> The superior point of the right patella (kneecap).</td>
</tr>
<tr>
<td><strong>Tenth rib:</strong> The inferior point of the right tenth rib (bottom of the rib cage).</td>
<td><strong>Thelion, right and left:</strong> Center of the nipples (on males).</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Thigh point, top:</strong> The highest point of the top of the right thigh of a seated subject.</td>
<td><strong>Top of head:</strong> The highest point on the head when the head is in the Frankfort plane.</td>
</tr>
<tr>
<td><strong>Trapezius point, right and left:</strong> The point at which the anterior border of the trapezius muscle crosses the lateral neck landmark.</td>
<td><strong>Trochanter:</strong> A point at the center of the lateral surface of the greater trochanter of the right femur of a sitting subject.</td>
</tr>
<tr>
<td><strong>Waist (natural indentation), right, left, anterior, and posterior:</strong> Level of the greatest indentation on the right side of the torso, or half the distance between 10th rib and iliocristale if no single indentation is clear.</td>
<td><strong>Waist (omphalion), right, left, anterior, and posterior:</strong> Level of the center of the navel.</td>
</tr>
<tr>
<td><strong>Wrist, dorsal:</strong> A line across the back of the right wrist originating at the styliion landmark and perpendicular to the long axis of the arm.</td>
<td></td>
</tr>
</tbody>
</table>
THE SUMMARY STATISTICS

Summary statistics, including means, standard deviations, and percentile values for the male and female US Navy/MC Eligible Pilot Databases, are presented in the following pages. Each of the summarized dimensions is fully described and illustrated. All of the dimensions were directly measured using traditional instruments and standard anthropometric techniques. The measurements were taken on the right side of the subject unless otherwise specified or in the rare cases where an injury or anatomical abnormality made it necessary to measure on the left side. Measurements were made to the nearest millimeter, except Weight taken to the nearest 0.1 kilogram.

(1) Abdominal Extension Depth, Sitting

The horizontal distance between the anterior point of the abdomen and the back at the same level is measured with a beam caliper. The subject sits erect looking straight ahead. The measurement is made at the maximum point of quiet respiration.
## (1) Abdominal Extension Depth, Sitting

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>226.3</td>
<td>Mean</td>
<td>8.91</td>
</tr>
<tr>
<td>1.1</td>
<td>SE(Mean)</td>
<td>0.04</td>
</tr>
<tr>
<td>27.1</td>
<td>StDev</td>
<td>1.07</td>
</tr>
<tr>
<td>0.8</td>
<td>SE(StDev)</td>
<td>0.03</td>
</tr>
<tr>
<td>170.0</td>
<td>Minimum</td>
<td>6.69</td>
</tr>
<tr>
<td>312.0</td>
<td>Maximum</td>
<td>12.28</td>
</tr>
</tbody>
</table>

Coefficient of Variation 12.0%
Symmetry—Veta I 0.48
Kurtosis—Veta II 2.86

| Sample Size | 582 |

### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>249.0</td>
<td>Mean</td>
<td>9.80</td>
</tr>
<tr>
<td>1.1</td>
<td>SE(Mean)</td>
<td>0.04</td>
</tr>
<tr>
<td>30.0</td>
<td>StDev</td>
<td>1.18</td>
</tr>
<tr>
<td>0.8</td>
<td>SE(StDev)</td>
<td>0.03</td>
</tr>
<tr>
<td>184.0</td>
<td>Minimum</td>
<td>7.24</td>
</tr>
<tr>
<td>350.0</td>
<td>Maximum</td>
<td>13.78</td>
</tr>
</tbody>
</table>

Coefficient of Variation 12.0%
Symmetry—Veta I 0.40
Kurtosis—Veta II 2.92

| Sample Size | 736 |

### Percentiles

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>175.9</td>
<td>1st</td>
</tr>
<tr>
<td>179.9</td>
<td>2nd</td>
</tr>
<tr>
<td>182.5</td>
<td>3rd</td>
</tr>
<tr>
<td>186.3</td>
<td>5th</td>
</tr>
<tr>
<td>192.8</td>
<td>10th</td>
</tr>
<tr>
<td>197.8</td>
<td>15th</td>
</tr>
<tr>
<td>202.0</td>
<td>20th</td>
</tr>
<tr>
<td>205.9</td>
<td>25th</td>
</tr>
<tr>
<td>209.5</td>
<td>30th</td>
</tr>
<tr>
<td>213.1</td>
<td>35th</td>
</tr>
<tr>
<td>216.5</td>
<td>40th</td>
</tr>
<tr>
<td>220.0</td>
<td>45th</td>
</tr>
<tr>
<td>223.6</td>
<td>50th</td>
</tr>
<tr>
<td>227.2</td>
<td>55th</td>
</tr>
<tr>
<td>231.0</td>
<td>60th</td>
</tr>
<tr>
<td>235.0</td>
<td>65th</td>
</tr>
<tr>
<td>239.3</td>
<td>70th</td>
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#### Males

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(2) Acromial Height, Sitting

The vertical distance between a sitting surface and the acromion landmark on the tip of the right shoulder is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is made at the maximum point of quiet respiration.
### (2) Acromial Height, Sitting

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Coefficient of Variation: 4.6%

Symmetry—Veta: 0.08
Kurtosis—Veta II: 3.04

Sample Size: 582

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Coefficient of Variation: 4.6%

Symmetry—Veta I: 0.03
Kurtosis—Veta II: 2.90

Sample Size: 736

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(3) Ankle Circumference

The minimum horizontal circumference of the right ankle is measured with a tape. The subject stands with the feet about 10 cm apart and the weight distributed equally on both feet.
### (3) Ankle Circumference

#### Females

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Sample Size 580

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#### Males

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Sample Size 733

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</table>
(4) Biceps Circumference, Flexed

The circumference of the right upper arm around the flexed biceps muscle is measured with a tape held perpendicular to the long axis of the upper arm. The subject stands with the upper arm extended horizontally and the elbow flexed 90 degrees. The fist is clenched and held facing the head, and the subject exerts maximum effort in "making a muscle."
### Biceps Circumference, Flexed

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Coefficient of Variation:
- Females: 8.2%
- Males: 7.9%

Symmetry:
- Females: Veta I 0.36
- Males: Veta I 0.21

Kurtosis:
- Females: Veta II 3.01
- Males: Veta II 3.22

Sample Size:
- Females: 582
- Males: 738

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<td>300.8 80th</td>
<td>11.84</td>
<td>358.6 80th</td>
</tr>
<tr>
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<td>12.06</td>
<td>364.1 85th</td>
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<td>371.2 90th</td>
</tr>
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<td>12.72</td>
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<td>12.96</td>
<td>389.5 97th</td>
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<td>13.13</td>
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<tr>
<td>339.2 99th</td>
<td>13.36</td>
<td>403.9 99th</td>
</tr>
</tbody>
</table>
(5) Bideltoid Breadth

The maximum horizontal distance between the lateral margins of the upper arms on the deltoid muscles is measured with a beam caliper. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is made at the maximum point of quiet respiration.
(5) Bideltoid Breadth

<table>
<thead>
<tr>
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</tr>
<tr>
<td>0.9</td>
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<tr>
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<td>StDev</td>
</tr>
<tr>
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<td>SE(StDev)</td>
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<tr>
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<tr>
<td>501.0</td>
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<td>Coefficient of Variation</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Kurtosis----Veta II</td>
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<table>
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<tr>
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<td>SE(StDev)</td>
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<tr>
<td>593.0</td>
<td>Maximum</td>
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</tr>
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</tr>
<tr>
<td>490.6</td>
<td>99th</td>
</tr>
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</table>
(6) Bustpoint/Thelion-Bustpoint/Thelion Breadth

The distance between the right and left bustpoint landmarks on women and the center of the nipples (thelion) on men is measured with a beam caliper. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.
### (6) Bustpoint/Thelion-Bustpoint/Thelion Breadth

<table>
<thead>
<tr>
<th>Females</th>
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<th>Males</th>
<th>Inches</th>
</tr>
</thead>
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<td><strong>SE(Mean)</strong></td>
<td><strong>Mean</strong></td>
</tr>
<tr>
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<td>0.03</td>
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<td>0.67</td>
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<td>0.76</td>
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<td>0.5</td>
<td>0.02</td>
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<tr>
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<td><strong>Minimum</strong></td>
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<td><strong>Maximum</strong></td>
<td>11.14</td>
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<tr>
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<td><strong>Coefficient of Variation</strong></td>
<td>8.8%</td>
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<tr>
<td><strong>Symmetry---Veta I</strong></td>
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<td><strong>Symmetry---Veta I</strong></td>
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<td><strong>Kurtosis---Veta II</strong></td>
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<td><strong>Sample Size</strong></td>
<td><strong>738</strong></td>
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<th>Percentiles</th>
<th>Inches</th>
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<tr>
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<td>182.7</td>
<td>2nd</td>
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<td>151.9</td>
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<td>186.1</td>
<td>3rd</td>
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<tr>
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<tr>
<td>166.0</td>
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</tr>
<tr>
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<tr>
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<td>30th</td>
</tr>
<tr>
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<td>213.5</td>
<td>35th</td>
</tr>
<tr>
<td>179.5</td>
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<td>40th</td>
</tr>
<tr>
<td>181.6</td>
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<td>45th</td>
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<td>50th</td>
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<tr>
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<td>55th</td>
</tr>
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<td>226.0</td>
<td>60th</td>
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</tr>
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<td>234.7</td>
<td>75th</td>
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<td>238.2</td>
<td>80th</td>
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<td>260.2</td>
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<td>218.7</td>
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<td>98th</td>
</tr>
<tr>
<td>223.6</td>
<td>99th</td>
<td>268.8</td>
<td>99th</td>
</tr>
</tbody>
</table>

| 7.92 | 8.09 | 8.33 | 8.49 | 8.61 | 8.81 |
(7) Buttock Circumference

The horizontal circumference of the trunk at the level of the maximum protrusion of the right buttock is measured with a tape. The subject stands erect with the heels together and the weight equally distributed on both feet.
### Buttock Circumference

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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<tbody>
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<td>974.5</td>
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<tr>
<td>2.6</td>
<td>0.10</td>
</tr>
<tr>
<td>62.4</td>
<td>2.46</td>
</tr>
<tr>
<td>1.8</td>
<td>0.07</td>
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<tr>
<td>783.0</td>
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<tr>
<td>1167.0</td>
<td>45.94</td>
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Coefficient of Variation: 6.4%
Symmetry—Veta I: 0.23
Kurtosis—Veta II: 3.06

Sample Size: 582

#### Males

<table>
<thead>
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<th>Millimeters</th>
<th>Inches</th>
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<tbody>
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Coefficient of Variation: 6.2%
Symmetry—Veta I: 0.16
Kurtosis—Veta II: 2.99

Sample Size: 738

#### Percentiles

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<td>36.66</td>
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<td>43.76</td>
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<tr>
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Sample Size: 582
(8) Buttock Height

The vertical distance between a standing surface and the level of the maximum protrusion of the right buttock is measured with an anthropometer at the right side of the thigh. The subject stands erect with the heels together and the weight distributed equally on both feet.
### (8) Buttock Height

#### Females

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<tr>
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</table>

- Coefficient of Variation: 5.7%
- Symmetry: 0.17
- Kurtosis: 3.46

#### Males

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<td>40.67</td>
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- Coefficient of Variation: 5.1%
- Symmetry: 0.10
- Kurtosis: 3.06

#### Sample Size

- Females: 582
- Males: 738

#### Percentiles

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</tr>
<tr>
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</table>
(9) Buttock-Knee Length

The horizontal distance between a buttock plate placed at the most posterior point on either buttock and the anterior point of the right knee is measured with an anthropometer. The subject sits erect. The thighs are parallel and the knees flexed 90 degrees with the feet in line with the thighs.
## (9) Buttock-Knee Length

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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<tbody>
<tr>
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<tr>
<td>0.9</td>
<td>0.03</td>
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<table>
<thead>
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<td>479.0</td>
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Coefficient of Variation: 5.2%

Symmetry----Veta I: 0.08

Kurtosis----Veta II: 3.18

Sample Size: 582

### Males

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<th>Millimeters</th>
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<td>1.19</td>
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<tr>
<td>0.8</td>
<td>0.03</td>
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</table>

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>506.0</td>
<td>693.0</td>
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</tbody>
</table>

Coefficient of Variation: 4.9%

Symmetry----Veta I: 0.03

Kurtosis----Veta II: 2.83

Sample Size: 736

### Percentiles

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Sample Size: 582
(10) Buttock-Popliteal Length

The horizontal distance between a buttock plate placed at the most posterior point on either buttock and the back of the right knee (the popliteal fossa at the dorsal juncture of the calf and thigh) is measured with an anthropometer. The subject sits erect. The thighs are parallel and the knees flexed 90 degrees with the feet in line with the thighs.
### (10) Buttock-Popliteal Length

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#### Males

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<th>Coefficient of Variation</th>
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<tr>
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</table>
(11) Calf Circumference

The maximum horizontal circumference of the right calf is measured with a tape. The subject stands erect with the heels approximately 10 cm apart and the weight distributed equally on both feet.
### (11) Calf Circumference

#### Females

<table>
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<tr>
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<td>Maximum 459.0</td>
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</table>

Coefficient of Variation: 6.6%
Symmetry----Veta I: 0.25
Kurtosis----Veta II: 3.20

Sample Size: 580

#### Males

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<tr>
<th>Millimeters</th>
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<tr>
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Coefficient of Variation: 6.8%
Symmetry----Veta I: 0.04
Kurtosis----Veta II: 2.86

Sample Size: 733

#### Percentiles

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(12) Calf Height

The vertical distance between a standing surface and the level of the maximum circumference of the right calf is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.
### (12) Calf Height

#### Females

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Coefficient of Variation: 7.6%
Symmetry——Veta I: 0.41
Kurtosis——Veta II: 3.62

Sample Size: 580

#### Males

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Coefficient of Variation: 6.4%
Symmetry——Veta I: 0.07
Kurtosis——Veta II: 2.99

Sample Size: 733

#### Percentiles

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Sample Size: 580

Sample Size: 733
(13) Chest Circumference

The maximum horizontal circumference of the chest at the fullest part of the breast is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
## (13) Chest Circumference

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<td><strong>Millimeters</strong></td>
<td><strong>Inches</strong></td>
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<td>Coefficient of Variation</td>
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<td></td>
<td>Symmetry----Veta I</td>
</tr>
<tr>
<td>Kurtosis----Veta II</td>
<td>3.29</td>
<td></td>
<td>Kurtosis----Veta II</td>
</tr>
<tr>
<td><strong>Sample Size</strong></td>
<td>582</td>
<td></td>
<td><strong>Sample Size</strong></td>
</tr>
</tbody>
</table>

| Males | | Percentiles | |
|-------|-------|------------|
| **Millimeters** | **Inches** | **Percentiles** |
| 764.4 | 1st | 30.10 |
| 785.6 | 2nd | 30.93 |
| 797.6 | 3rd | 31.40 |
| 812.6 | 5th | 31.99 |
| 833.9 | 10th | 32.83 |
| 847.6 | 15th | 33.37 |
| 858.3 | 20th | 33.79 |
| 867.7 | 25th | 34.16 |
| 876.2 | 30th | 34.50 |
| 884.3 | 35th | 34.82 |
| 892.2 | 40th | 35.13 |
| 900.0 | 45th | 35.43 |
| 907.9 | 50th | 35.74 |
| 916.0 | 55th | 36.06 |
| 924.5 | 60th | 36.40 |
| 933.5 | 65th | 36.75 |
| 943.2 | 70th | 37.13 |
| 954.0 | 75th | 37.56 |
| 966.4 | 80th | 38.05 |
| 981.2 | 85th | 38.63 |
| 1000.2 | 90th | 39.38 |
| 1028.7 | 95th | 40.50 |
| 1046.8 | 97th | 41.21 |
| 1059.7 | 98th | 41.72 |
| 1078.8 | 99th | 42.47 |
(14) Chest Circumference at Scye

The horizontal circumference of the chest at the level of the scye-at-midspine landmark is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### (14) Chest Circumference at Scye

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>889.4</td>
<td>Mean</td>
</tr>
<tr>
<td>2.3</td>
<td>SE(Mean)</td>
</tr>
<tr>
<td>54.8</td>
<td>StDev</td>
</tr>
<tr>
<td>1.6</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>748.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>1121.0</td>
<td>Maximum</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 6.2%
Symmetry----Veta I: 0.42
Kurtosis----Veta II: 3.62

Sample Size: 582

#### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1037.7</td>
<td>Mean</td>
</tr>
<tr>
<td>2.5</td>
<td>SE(Mean)</td>
</tr>
<tr>
<td>66.8</td>
<td>StDev</td>
</tr>
<tr>
<td>1.7</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>840.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>1298.0</td>
<td>Maximum</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 6.4%
Symmetry----Veta I: 0.13
Kurtosis----Veta II: 3.10

Sample Size: 738

#### Percentiles

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
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<td>793.7</td>
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</tr>
<tr>
<td>805.3</td>
<td>5th</td>
</tr>
<tr>
<td>822.6</td>
<td>10th</td>
</tr>
<tr>
<td>834.2</td>
<td>15th</td>
</tr>
<tr>
<td>843.4</td>
<td>20th</td>
</tr>
<tr>
<td>851.5</td>
<td>25th</td>
</tr>
<tr>
<td>858.9</td>
<td>30th</td>
</tr>
<tr>
<td>865.8</td>
<td>35th</td>
</tr>
<tr>
<td>872.5</td>
<td>40th</td>
</tr>
<tr>
<td>879.0</td>
<td>45th</td>
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<tr>
<td>885.7</td>
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<tr>
<td>892.4</td>
<td>55th</td>
</tr>
<tr>
<td>899.4</td>
<td>60th</td>
</tr>
<tr>
<td>906.8</td>
<td>65th</td>
</tr>
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<td>914.7</td>
<td>70th</td>
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<tr>
<td>923.5</td>
<td>75th</td>
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<tr>
<td>933.6</td>
<td>80th</td>
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<td>945.6</td>
<td>85th</td>
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<td>961.2</td>
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<tr>
<td>985.1</td>
<td>95th</td>
</tr>
<tr>
<td>1001.0</td>
<td>97th</td>
</tr>
<tr>
<td>1012.8</td>
<td>98th</td>
</tr>
<tr>
<td>1031.4</td>
<td>99th</td>
</tr>
</tbody>
</table>
(15) Chest Depth

The horizontal distance between the chest, at the level of the right bustpoint on women or the nipple on men, and the back at the same level is measured with a beam caliper. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### (15) Chest Depth

<table>
<thead>
<tr>
<th>Females</th>
<th>Males</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Millimeters</strong></td>
<td><strong>Inches</strong></td>
</tr>
<tr>
<td>240.8</td>
<td>Mean</td>
</tr>
<tr>
<td>0.9</td>
<td>SE(Mean)</td>
</tr>
<tr>
<td>22.4</td>
<td>StDev</td>
</tr>
<tr>
<td>0.7</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>174.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>321.0</td>
<td>Maximum</td>
</tr>
<tr>
<td></td>
<td>Coefficient of Variation</td>
</tr>
<tr>
<td></td>
<td>Symmetry----Veta I</td>
</tr>
<tr>
<td></td>
<td>Kurtosis----Veta II</td>
</tr>
<tr>
<td></td>
<td>Sample Size</td>
</tr>
</tbody>
</table>

| Percentiles | Females | | | Males | | |
|-------------|---------|| | | | |
| **Millimeters** | **Inches** | **Millimeters** | **Inches** | **Millimeters** | **Inches** | **Millimeters** | **Inches** |
| 189.5 | 1st | 7.46 | 201.2 | 1st | 7.92 | 206.0 | 2nd | 8.11 |
| 197.5 | 2nd | 7.78 | 206.0 | 2nd | 8.11 | 209.2 | 3rd | 8.24 |
| 201.9 | 3rd | 7.95 | 213.6 | 5th | 8.41 | 220.9 | 10th | 8.70 |
| 207.3 | 5th | 8.16 | 220.9 | 10th | 8.70 | 226.0 | 15th | 8.90 |
| 214.4 | 10th | 8.44 | 230.1 | 20th | 9.06 | 233.8 | 25th | 9.21 |
| 218.9 | 15th | 8.62 | 237.2 | 30th | 9.34 | 240.3 | 35th | 9.46 |
| 222.4 | 20th | 8.76 | 243.3 | 40th | 9.58 | 246.3 | 45th | 9.70 |
| 225.5 | 25th | 8.88 | 249.2 | 50th | 9.81 | 252.2 | 55th | 9.93 |
| 228.3 | 30th | 8.99 | 255.2 | 60th | 10.05 | 258.3 | 65th | 10.17 |
| 231.0 | 35th | 9.09 | 261.6 | 70th | 10.30 | 265.1 | 75th | 10.44 |
| 233.6 | 40th | 9.20 | 265.1 | 75th | 10.44 | 269.1 | 80th | 10.59 |
| 236.2 | 45th | 9.30 | 273.6 | 85th | 10.77 | 279.2 | 90th | 10.99 |
| 238.8 | 50th | 9.40 | 287.0 | 95th | 11.30 | 287.0 | 95th | 11.30 |
| 241.6 | 55th | 9.51 | 291.7 | 97th | 11.48 | 291.7 | 97th | 11.48 |
| 244.5 | 60th | 9.63 | 295.0 | 98th | 11.61 | 295.0 | 98th | 11.61 |
| 247.6 | 65th | 9.75 | 299.6 | 99th | 11.79 | 299.6 | 99th | 11.79 |
(16) Crotch Height

The vertical distance between the standing surface and the crotch is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together and the weight is distributed equally on both feet.
### (16) Crotch Height

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>760.8</td>
<td>29.95</td>
</tr>
<tr>
<td>1.9</td>
<td>0.07</td>
</tr>
<tr>
<td>45.5</td>
<td>1.79</td>
</tr>
<tr>
<td>1.3</td>
<td>0.05</td>
</tr>
<tr>
<td>594.0</td>
<td>23.39</td>
</tr>
<tr>
<td>903.0</td>
<td>35.55</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 6.0%
Symmetry——Veta I: 0.09
Kurtosis——Veta II: 3.14

Sample Size: 582

#### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>831.3</td>
<td>32.73</td>
</tr>
<tr>
<td>1.6</td>
<td>0.06</td>
</tr>
<tr>
<td>44.6</td>
<td>1.76</td>
</tr>
<tr>
<td>1.2</td>
<td>0.05</td>
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<tr>
<td>675.0</td>
<td>26.57</td>
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<tr>
<td>949.0</td>
<td>37.36</td>
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</table>

Coefficient of Variation: 5.4%
Symmetry——Veta I: 0.02
Kurtosis——Veta II: 2.95

Sample Size: 738
(17) Crotch Length (Omphalion)

The distance between the abdomen at the level of the center of the navel (omphalion) to the same level on the back is measured with a tape passing through the crotch to the right of the genitalia. The tape is held vertically both in front and in back. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.
## (17) Crotch Length (Omphalion)

<table>
<thead>
<tr>
<th>Females</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>616.2</td>
<td>24.26</td>
</tr>
<tr>
<td>SE(Mean)</td>
<td>1.6</td>
<td>0.06</td>
</tr>
<tr>
<td>StDev</td>
<td>39.1</td>
<td>1.54</td>
</tr>
<tr>
<td>SE(StDev)</td>
<td>1.1</td>
<td>0.05</td>
</tr>
<tr>
<td>Minimum</td>
<td>590.0</td>
<td>23.23</td>
</tr>
<tr>
<td>Maximum</td>
<td>924.0</td>
<td>36.38</td>
</tr>
<tr>
<td>Coefficient of Variation</td>
<td>6.3%</td>
<td></td>
</tr>
<tr>
<td>Symmetry----Veta I</td>
<td>0.07</td>
<td></td>
</tr>
<tr>
<td>Kurtosis----Veta II</td>
<td>3.04</td>
<td></td>
</tr>
<tr>
<td>Sample Size</td>
<td>582</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Males</th>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>649.3</td>
<td>25.56</td>
</tr>
<tr>
<td>SE(Mean)</td>
<td>1.6</td>
<td>0.06</td>
</tr>
<tr>
<td>StDev</td>
<td>43.0</td>
<td>1.69</td>
</tr>
<tr>
<td>SE(StDev)</td>
<td>1.1</td>
<td>0.04</td>
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<tr>
<td>Minimum</td>
<td>638.0</td>
<td>25.12</td>
</tr>
<tr>
<td>Maximum</td>
<td>976.0</td>
<td>38.43</td>
</tr>
<tr>
<td>Coefficient of Variation</td>
<td>6.6%</td>
<td></td>
</tr>
<tr>
<td>Symmetry----Veta I</td>
<td>0.26</td>
<td></td>
</tr>
<tr>
<td>Kurtosis----Veta II</td>
<td>3.17</td>
<td></td>
</tr>
<tr>
<td>Sample Size</td>
<td>738</td>
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</table>

<table>
<thead>
<tr>
<th>Percentiles</th>
<th>Females</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>523.3</td>
<td>20.60</td>
</tr>
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<td>2nd</td>
<td>536.0</td>
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<td>3rd</td>
<td>543.6</td>
<td>21.40</td>
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<tr>
<td>5th</td>
<td>553.4</td>
<td>21.79</td>
</tr>
<tr>
<td>10th</td>
<td>567.7</td>
<td>22.35</td>
</tr>
<tr>
<td>15th</td>
<td>576.9</td>
<td>22.71</td>
</tr>
<tr>
<td>20th</td>
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<td>23.24</td>
</tr>
<tr>
<td>30th</td>
<td>595.8</td>
<td>23.46</td>
</tr>
<tr>
<td>35th</td>
<td>600.9</td>
<td>23.66</td>
</tr>
<tr>
<td>40th</td>
<td>605.8</td>
<td>23.85</td>
</tr>
<tr>
<td>45th</td>
<td>610.5</td>
<td>24.04</td>
</tr>
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<td>24.22</td>
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<td>630.1</td>
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<td>635.5</td>
<td>25.02</td>
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<td>641.6</td>
<td>25.26</td>
</tr>
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<td>85th</td>
<td>656.5</td>
<td>25.85</td>
</tr>
<tr>
<td>90th</td>
<td>666.9</td>
<td>26.26</td>
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<tr>
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<td>682.7</td>
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<td>97th</td>
<td>693.2</td>
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<td>27.60</td>
</tr>
<tr>
<td>99th</td>
<td>713.1</td>
<td>28.08</td>
</tr>
</tbody>
</table>
(18) Crotch Length, Posterior (Omphalion)

The surface distance from the crotch at the inner thigh landmark to the back of the waist at the level of the center of the navel (omphalion) is measured with a tape. The tape passes between the buttocks to the back of the waist. The subject stands with the left foot on a platform so that the knee is flexed.
## (18) Crotch Length, Posterior (Omphalion)

<table>
<thead>
<tr>
<th>Females</th>
<th></th>
<th>Males</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Millimeters</strong></td>
<td><strong>Inches</strong></td>
<td><strong>Millimeters</strong></td>
<td><strong>Inches</strong></td>
</tr>
<tr>
<td>310.8</td>
<td>Mean</td>
<td>12.24</td>
<td>318.0</td>
</tr>
<tr>
<td>1.1</td>
<td>SE(Mean)</td>
<td>0.04</td>
<td>0.9</td>
</tr>
<tr>
<td>25.9</td>
<td>StDev</td>
<td>1.02</td>
<td>24.3</td>
</tr>
<tr>
<td>0.8</td>
<td>SE(StDev)</td>
<td>0.03</td>
<td>0.6</td>
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<tr>
<td>235.0</td>
<td>Minimum</td>
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</tr>
<tr>
<td>378.0</td>
<td>Maximum</td>
<td>14.88</td>
<td>403.0</td>
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</table>

Coefficient of Variation
- Females: 8.3%
- Males: 7.6%

Symmetry
- Females: Veta I -0.04
- Males: Veta I 0.06

Kurtosis
- Females: Veta II 2.92
- Males: Veta II 3.20

Sample Size
- Females: 582
- Males: 738

### Percentiles

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>248.5</td>
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<tr>
<td>256.6</td>
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<td>261.5</td>
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</tr>
<tr>
<td>268.0</td>
<td>5th</td>
</tr>
<tr>
<td>277.6</td>
<td>10th</td>
</tr>
<tr>
<td>284.0</td>
<td>15th</td>
</tr>
<tr>
<td>288.9</td>
<td>20th</td>
</tr>
<tr>
<td>293.3</td>
<td>25th</td>
</tr>
<tr>
<td>297.1</td>
<td>30th</td>
</tr>
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<td>300.7</td>
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<tr>
<td>304.1</td>
<td>40th</td>
</tr>
<tr>
<td>307.4</td>
<td>45th</td>
</tr>
<tr>
<td>310.7</td>
<td>50th</td>
</tr>
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<td>344.8</td>
<td>90th</td>
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<td>360.6</td>
<td>97th</td>
</tr>
<tr>
<td>364.9</td>
<td>98th</td>
</tr>
<tr>
<td>371.4</td>
<td>99th</td>
</tr>
<tr>
<td>377.9</td>
<td></td>
</tr>
</tbody>
</table>
(19) Elbow Circumference

The circumference of the right elbow in a plane perpendicular to the long axis of the arm is measured with a tape passing around the elbow at the level of the olecranon-center landmark. The subject stands with the arm straight and slightly away from the side.
### (19) Elbow Circumference

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>238.8</td>
<td>9.40</td>
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<tr>
<td>0.6</td>
<td>0.02</td>
</tr>
<tr>
<td>13.7</td>
<td>0.54</td>
</tr>
<tr>
<td>0.4</td>
<td>0.02</td>
</tr>
<tr>
<td>202.0</td>
<td>7.95</td>
</tr>
<tr>
<td>290.0</td>
<td>11.42</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 5.7%
Symmetry—Veta I: 0.24
Kurtosis—Veta II: 3.12

Sample Size: 582

#### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>278.3</td>
<td>10.96</td>
</tr>
<tr>
<td>0.6</td>
<td>0.02</td>
</tr>
<tr>
<td>15.4</td>
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Coefficient of Variation: 5.5%
Symmetry—Veta I: 0.21
Kurtosis—Veta II: 3.12

Sample Size: 738

#### Percentiles

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<tr>
<td>273.1</td>
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(20) Elbow Rest Height

The vertical distance between a sitting surface and the olecranon landmark on the bottom of the flexed right elbow is measured with an anthropometer. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.
## (20) Elbow Rest Height

### Females

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<tr>
<td>Minimum</td>
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<tr>
<td>Maximum</td>
<td>11.81</td>
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Coefficient of Variation: 9.7%
Symmetry----Veta I: -0.11
Kurtosis----Veta II: 3.44

Sample Size: 582

### Males

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<tr>
<td>StDev</td>
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<tr>
<td>Minimum</td>
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Coefficient of Variation: 10.2%
Symmetry----Veta I: -0.12
Kurtosis----Veta II: 3.34

Sample Size: 736

### Percentiles

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#### Males

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(21) Eye Height, Sitting

The vertical distance between a sitting surface and the ectocanthus landmark on the outer corner of the right eye is measured with an anthropometer. The subject sits erect with the head in the Frankfort plane. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The thighs are parallel and the knees are flexed 90 degrees with the feet in line with the thighs. The measurement is taken at the maximum point of quiet respiration.
(21) Eye Height, Sitting

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(22) Forearm Circumference, Flexed

The circumference of the flexed right forearm is measured with a tape passing across the crease at the juncture between the upper arm and the forearm. The measurement is made in a plane perpendicular to the long axis of the forearm. The subject stands with the upper arm extended forward horizontally, the elbow flexed 90 degrees, and the fist tightly clenched and held facing the head.
## (22) Forearm Circumference, Flexed

| Females | | Males | |
|---------|------------------|------------------|
| Millimeters | Inches | Millimeters | Inches |
| 252.3 | Mean | 9.93 | 303.7 | Mean | 11.96 |
| 0.6 | SE(Mean) | 0.02 | 0.7 | SE(Mean) | 0.03 |
| 15.0 | StDev | 0.59 | 18.4 | StDev | 0.72 |
| 0.4 | SE(StDev) | 0.02 | 0.5 | SE(StDev) | 0.02 |
| 212.0 | Minimum | 8.35 | 258.0 | Minimum | 10.16 |
| 311.0 | Maximum | 12.24 | 375.0 | Maximum | 14.76 |
| Coefficient of Variation | 6.0% | Coefficient of Variation | 6.1% |
| Symmetry----Veta I | 0.27 | Symmetry----Veta I | 0.18 |
| Kurtosis----Veta II | 3.33 | Kurtosis----Veta II | 3.09 |
| Sample Size | 582 | Sample Size | 738 |

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(23) Forearm-Forearm Breadth

The maximum horizontal distance across the upper body between the outer sides of the forearms is measured with a beam caliper. The subject sits erect looking straight ahead. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The measurement is taken at the maximum point of quiet respiration.
## Forearm-Forearm Breadth

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Coefficient of Variation: 7.6%
Symmetry—Veta I: 0.35
Kurtosis—Veta II: 3.40

Sample Size: 582

### Males

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Coefficient of Variation: 8.2%
Symmetry—Veta I: 0.13
Kurtosis—Veta II: 2.91

Sample Size: 736

### Percentiles

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#### Males

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<tr>
<td>666.8</td>
<td>99th</td>
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</tbody>
</table>

63
(24) Forearm-Hand Length

The horizontal distance between the back of the tip of the right elbow to the tip of the right middle finger is measured with a beam caliper. The subject stands erect with the upper arms hanging at the sides and the right elbow flexed 90 degrees. The hand is held out straight with the palm facing inward.
### (24) Forearm-Hand Length

#### Females

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Coefficient of Variation: 5.1%

Symmetry----Veta I: 0.12
Kurtosis----Veta II: 4.19

Sample Size: 582

#### Males

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<th>Millimeters</th>
<th>Inches</th>
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Coefficient of Variation: 4.4%

Symmetry----Veta I: 0.18
Kurtosis----Veta II: 3.30

Sample Size: 738

### Percentiles

#### Females

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#### Males

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<th>Inches</th>
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</table>
(25) Functional Leg Length

The straight-line distance between the plane of the bottom of the right foot with the leg extended and the back of the body of a seated subject is measured with an anthropometer passing over the trochanter landmark on the side of the hip. The subject sits erect on a stool 40.8 cm high. The right leg is extended and the foot is on the base plate of the anthropometer, which rests on the floor. The measurement is made from the footrest surface of the base plate.
### (25) Functional Leg Length

#### Females

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<tr>
<td>Kurtosis----Veta II</td>
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| Sample Size | 582 |

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#### Males

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| Sample Size | 738 |

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</table>

(26) Gluteal Furrow Height

The vertical distance between a standing surface and the lowest point of the gluteal furrow(s) under the right buttock is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.
### (26) Gluteal Furrow Height

#### Females

<table>
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**Coefficient of Variation**: 6.2%

**Symmetry**—Veta I: 0.08

**Kurtosis**—Veta II: 3.24

**Sample Size**: 582

#### Males

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<tr>
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**Coefficient of Variation**: 5.4%

**Symmetry**—Veta I: -0.04

**Kurtosis**—Veta II: 2.96

**Sample Size**: 738

#### Percentiles

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</table>
(27) Head Circumference

The maximum circumference of the head above the attachment of the ears to the head is measured with a tape passing just above the ridges of the eyebrows and around the back of the head.
## Females

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<tr>
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</table>

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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</table>

Coefficient of Variation: 2.6%

Symmetry----Veta I: 0.13

Kurtosis----Veta II: 3.59

Sample Size: 582

## Males

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Coefficient of Variation: 2.8%

Symmetry----Veta I: 0.23

Kurtosis----Veta II: 3.35

Sample Size: 737
(28) Hip Breadth, Sitting

The distance between the lateral points of the hips or thighs (whichever are broader) is measured with a beam caliper. The subject sits erect with the feet and knees together.
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</tr>
<tr>
<td>99th</td>
<td>434.5</td>
<td>17.11</td>
</tr>
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</table>
(29) Interscye II

The distance across the back between the right and left midscye landmarks is measured with a tape. The tape is held on the skin surface except where it spans the hollow of the back. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
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<tbody>
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<td>Mean 376.6</td>
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<tr>
<td>SE(Mean) 1.0</td>
<td>0.04</td>
</tr>
<tr>
<td>StDev 25.0</td>
<td>0.99</td>
</tr>
<tr>
<td>SE(StDev) 0.7</td>
<td>0.03</td>
</tr>
</tbody>
</table>

- Minimum 300.0 | 11.81 |
- Maximum 470.0 | 18.50 |

- Coefficient of Variation: 6.6%
- Symmetry----Veta I: 0.01
- Kurtosis----Veta II: 2.97

- Sample Size: 582

### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
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<tbody>
<tr>
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<tr>
<td>SE(Mean) 1.0</td>
<td>0.04</td>
</tr>
<tr>
<td>StDev 27.1</td>
<td>1.07</td>
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<tr>
<td>SE(StDev) 0.7</td>
<td>0.03</td>
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</tbody>
</table>

- Minimum 329.0 | 12.95 |
- Maximum 505.0 | 19.88 |

- Coefficient of Variation: 6.6%
- Symmetry----Veta I: 0.10
- Kurtosis----Veta II: 3.14

- Sample Size: 738

### Percentiles

#### Females

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<td>25th 14.14</td>
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<td>60th 15.09</td>
</tr>
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<tr>
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<td>70th 15.37</td>
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#### Males

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</table>
(30) Knee Circumference

The horizontal circumference of the right knee at the level of the midpatella landmark at the center of the knee is measured with a tape. The subject stands erect with the feet about 10 cm apart and the weight distributed equally on both feet.
## (30) Knee Circumference

### Females

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### Males

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### Sample Size:
- Females: 580
- Males: 732

### Percentiles

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(31) Knee Height, Midpatella

The vertical distance between a standing surface and the midpatella landmark at the center of the right knee is measured with an anthropometer. The subject stands erect with the heels together and the weight distributed equally on both feet.
### Knee Height, Midpatella

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</table>
(32) Knee Height, Sitting

The vertical distance between a footrest surface and the suprapatella landmark at the top of the right knee (located and drawn while the subject stands) is measured with an anthropometer. The subject sits with the thighs parallel, the knees flexed 90 degrees, and the feet in line with the thighs.
### (32) Knee Height, Sitting

#### Females

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<tr>
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<tr>
<td>608.0</td>
<td>Maximum</td>
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Coefficient of Variation: 5.4%
Symmetry----Veta I: 0.15
Kurtosis----Veta II: 3.39

Sample Size: 582

#### Males

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Coefficient of Variation: 4.9%
Symmetry----Veta I: 0.06
Kurtosis----Veta II: 2.98

Sample Size: 736

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<td>622.7</td>
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</table>
(33) Lateral Malleolus Height

The vertical distance between a standing surface and the lateral malleolus landmark on the outside of the right ankle is measured with a modified sliding caliper. The subject stands erect with the heels together and the weight distributed equally on both feet.
### Lateral Malleolus Height

#### Females

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<tr>
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<td>SE(Mean)</td>
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<td>SE(StDev)</td>
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**Coefficient of Variation** 8.7%

**Symmetry** ---- **Veta I** 0.33

**Kurtosis** ---- **Veta II** 3.33

| Sample Size | 580 |

#### Males

<table>
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<th>Millimeters</th>
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<td>StDev</td>
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<tr>
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**Coefficient of Variation** 8.0%

**Symmetry** ---- **Veta I** 0.22

**Kurtosis** ---- **Veta II** 3.31

| Sample Size | 733 |

#### Percentiles

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(34) Lower Thigh Circumference

The horizontal circumference of the right thigh at the level of the suprapatella landmark at the top of the knee is measured with a tape. The subject stands erect with the feet about 10 cm apart and the weight distributed equally on both feet.
### (34) Lower Thigh Circumference

#### Females

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Coefficient of Variation: 7.5%
Symmetry----Veta I: 0.41
Kurtosis----Veta II: 3.28

Sample Size: 580

#### Males

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Coefficient of Variation: 7.1%
Symmetry----Veta I: 0.20
Kurtosis----Veta II: 2.99

Sample Size: 733

### Percentiles

#### Females

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#### Males

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(35) Neck-Bustpoint/Thelion Length

The distance between the trapezius landmark at the right side of the neck and the right bustpoint landmark on women or the right nipple (thelion) on men is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### (35) Neck-Bustpoint / Thelion Length

#### Females

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<td>0.6</td>
<td>0.02</td>
</tr>
<tr>
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</tr>
<tr>
<td>347.0</td>
<td>13.66</td>
</tr>
</tbody>
</table>

| Coefficient of Variation | 7.9% |
| Symmetry----Veta I       | 0.27 |
| Kurtosis----Veta II      | 3.14 |

| Sample Size | 582 |

#### Males

<table>
<thead>
<tr>
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<tbody>
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<td>0.03</td>
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<tr>
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</tr>
<tr>
<td>0.5</td>
<td>0.02</td>
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<tr>
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<td>8.90</td>
</tr>
<tr>
<td>352.0</td>
<td>13.86</td>
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</tbody>
</table>

| Coefficient of Variation | 6.5% |
| Symmetry----Veta I       | 0.31 |
| Kurtosis----Veta II      | 3.32 |

| Sample Size | 738 |

#### Percentiles

#### Females

<table>
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<td>9.89</td>
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<td>10.45</td>
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</tr>
<tr>
<td>273.4</td>
<td>10.76</td>
</tr>
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<td>10.88</td>
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<tr>
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</tr>
<tr>
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</tr>
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<tr>
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<td>12.69</td>
</tr>
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</table>

#### Males

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<tr>
<td>314.9</td>
<td>12.40</td>
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<tr>
<td>319.2</td>
<td>12.57</td>
</tr>
<tr>
<td>326.6</td>
<td>12.86</td>
</tr>
</tbody>
</table>
(36) Neck Circumference

The circumference of the neck at the level of the infrathyroid landmark (Adam's apple) is measured with a tape. The plane of the measurement is perpendicular to the long axis of the neck. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.
### (36) Neck Circumference

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>314.9</td>
<td>Mean</td>
<td>12.40</td>
</tr>
<tr>
<td>0.6</td>
<td>SE(Mean)</td>
<td>0.03</td>
</tr>
<tr>
<td>15.5</td>
<td>StDev</td>
<td>0.61</td>
</tr>
<tr>
<td>0.5</td>
<td>SE(StDev)</td>
<td>0.02</td>
</tr>
<tr>
<td>277.0</td>
<td>Minimum</td>
<td>10.91</td>
</tr>
<tr>
<td>371.0</td>
<td>Maximum</td>
<td>14.61</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 4.9%
Symmetry----Veta I: 0.54
Kurtosis----Veta II: 3.28

Sample Size: 582

#### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>382.0</td>
<td>Mean</td>
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</tr>
<tr>
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<td>SE(Mean)</td>
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</tr>
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<td>19.9</td>
<td>StDev</td>
<td>0.78</td>
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<td>SE(StDev)</td>
<td>0.02</td>
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<tr>
<td>317.0</td>
<td>Minimum</td>
<td>12.48</td>
</tr>
<tr>
<td>468.0</td>
<td>Maximum</td>
<td>18.43</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 5.2%
Symmetry----Veta I: 0.35
Kurtosis----Veta II: 3.61

Sample Size: 738

#### Percentiles

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>287.9</td>
<td>2nd</td>
</tr>
<tr>
<td>290.0</td>
<td>3rd</td>
</tr>
<tr>
<td>292.7</td>
<td>5th</td>
</tr>
<tr>
<td>296.7</td>
<td>10th</td>
</tr>
<tr>
<td>299.4</td>
<td>15th</td>
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<td>301.6</td>
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<td>303.6</td>
<td>25th</td>
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<td>309.2</td>
<td>40th</td>
</tr>
<tr>
<td>311.0</td>
<td>45th</td>
</tr>
<tr>
<td>312.9</td>
<td>50th</td>
</tr>
<tr>
<td>314.9</td>
<td>55th</td>
</tr>
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<tr>
<td>336.3</td>
<td>90th</td>
</tr>
<tr>
<td>343.7</td>
<td>95th</td>
</tr>
<tr>
<td>348.4</td>
<td>97th</td>
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<tr>
<td>351.7</td>
<td>98th</td>
</tr>
<tr>
<td>356.6</td>
<td>99th</td>
</tr>
</tbody>
</table>
(37) Neck Circumference, Base

The circumference of the base of the neck is measured by a tape passing over the drawn lateral and anterior neck landmarks. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.
### (37) Neck Circumference, Base

#### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>345.7</td>
<td>13.61</td>
</tr>
<tr>
<td>0.7</td>
<td>0.03</td>
</tr>
<tr>
<td>16.5</td>
<td>0.65</td>
</tr>
<tr>
<td>0.5</td>
<td>0.02</td>
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<tr>
<td>308.0</td>
<td>12.13</td>
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<tr>
<td>398.0</td>
<td>15.67</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 4.8%

Symmetry: Veta I: 0.43

Kurtosis: Veta II: 3.14

Sample Size: 582

#### Males

<table>
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<th>Millimeters</th>
<th>Inches</th>
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<tbody>
<tr>
<td>410.0</td>
<td>16.14</td>
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<tr>
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<td>0.03</td>
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<tr>
<td>21.2</td>
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<tr>
<td>0.6</td>
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<tr>
<td>345.0</td>
<td>13.58</td>
</tr>
<tr>
<td>505.0</td>
<td>19.88</td>
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</table>

Coefficient of Variation: 5.2%

Symmetry: Veta I: 0.30

Kurtosis: Veta II: 3.63

Sample Size: 738

#### Percentiles

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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</thead>
<tbody>
<tr>
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<td>12.40</td>
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<td>317.5</td>
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<td>320.7</td>
<td>12.63</td>
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<td>325.6</td>
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<td>328.9</td>
<td>12.95</td>
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<tr>
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<td>13.64</td>
</tr>
<tr>
<td>348.5</td>
<td>13.72</td>
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<tr>
<td>350.9</td>
<td>13.81</td>
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<tr>
<td>353.4</td>
<td>13.91</td>
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<td>15.14</td>
</tr>
<tr>
<td>390.1</td>
<td>15.36</td>
</tr>
</tbody>
</table>
(38) Overhead Fingertip Reach, Extended

The vertical distance between a standing surface and the tip of the right middle finger when the arm is extended overhead as high as possible is measured on a wall scale. The subject stands on his/her toes facing a wall-mounted scale with both arms parallel and extended overhead as high as possible. The toes are 20 cm from the wall and the feet are about 10 cm apart. The palms of the hands rest on the scale. A block is placed against the tip of the finger to establish the measurement. The measurement is taken at the maximum point of quiet respiration.
## Overhead Fingertip Reach, Extended

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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<tbody>
<tr>
<td>2144.3</td>
<td>84.42</td>
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<tr>
<td>4.1</td>
<td>0.16</td>
</tr>
<tr>
<td>99.4</td>
<td>3.91</td>
</tr>
<tr>
<td>2.9</td>
<td>0.11</td>
</tr>
</tbody>
</table>

Minimum: 1820.0 | 71.65
Maximum: 2464.0 | 97.01

Coefficient of Variation: 4.6%
Symmetry—Veta I: 0.02
Kurtosis—Veta II: 3.17

Sample Size: 580

### Males

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<tbody>
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<td>91.71</td>
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<tr>
<td>3.7</td>
<td>0.15</td>
</tr>
<tr>
<td>100.3</td>
<td>3.95</td>
</tr>
<tr>
<td>2.6</td>
<td>0.10</td>
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</tbody>
</table>

Minimum: 1917.0 | 75.47
Maximum: 2642.0 | 104.02

Coefficient of Variation: 4.3%
Symmetry—Veta I: 0.01
Kurtosis—Veta II: 3.03

Sample Size: 733

### Percentiles

#### Females

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<td>92.45</td>
</tr>
<tr>
<td>2371.4</td>
<td>93.36</td>
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</tbody>
</table>

#### Males

<table>
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<th>Inches</th>
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<tbody>
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<td>2552.8</td>
<td>100.50</td>
</tr>
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</table>
(39) Overhead Fingertip Reach, Sitting

The vertical distance between a sitting surface and the tip of the right middle finger of a seated subject whose arm is extended overhead is measured on a wall scale. The subject sits erect on a flat surface 40.8 cm high with the right arm and hand extended vertically overhead as far as possible and the palm of the hand facing forward. Neither the back nor the arm touches a wall. A block placed at the tip of the middle finger spans the distance between the finger and the wall and establishes the measurement on the wall scale. The measurement is made at the maximum point of quiet respiration.
## (39) Overhead Fingertip Reach, Sitting

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>52.09</td>
</tr>
<tr>
<td>SE(Mean)</td>
<td>0.09</td>
</tr>
<tr>
<td>StDev</td>
<td>2.24</td>
</tr>
<tr>
<td>SE(StDev)</td>
<td>0.07</td>
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Coefficient of Variation 4.3%
Symmetry----Veta I -0.01
Kurtosis----Veta II 3.04

Sample Size 580

### Males

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Coefficient of Variation 4.1%
Symmetry----Veta I -0.01
Kurtosis----Veta II 3.44

Sample Size 733

### Percentiles

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<td>61.47</td>
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<td>1577.8</td>
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</table>
(40) Popliteal Height

The vertical distance from a footrest surface to the back of the right knee (the popliteal fossa at the dorsal juncture of the right calf and thigh) is measured with an anthropometer. The subject sits with the thighs parallel, the feet in line with the thighs, and the knees flexed 90 degrees.
### (40) Popliteal Height

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<th>Females</th>
<th>Males</th>
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<td><strong>Inches</strong></td>
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<td>384.9</td>
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</tr>
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<td>SE(Mean)</td>
</tr>
<tr>
<td>24.4</td>
<td>StDev</td>
</tr>
<tr>
<td>0.7</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>299.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>481.0</td>
<td>Maximum</td>
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<tr>
<td>Coefficient of Variation</td>
<td>6.3%</td>
</tr>
<tr>
<td>Symmetry---Veta I</td>
<td>0.11</td>
</tr>
<tr>
<td>Kurtosis---Veta II</td>
<td>3.12</td>
</tr>
<tr>
<td>Sample Size</td>
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</tr>
<tr>
<td><strong>Percentiles</strong></td>
<td><strong>Inches</strong></td>
</tr>
<tr>
<td>331.3</td>
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<tr>
<td>337.4</td>
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<tr>
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<tr>
<td>444.4</td>
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(41) Scye Circumference

The vertical circumference of the right upper arm (scye) is measured with a tape passing through the armpit and over the acromion landmark on the tip of the shoulder. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed with the palms facing the thighs.
## (41) Scye Circumference

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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<tr>
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<tr>
<td>SE(StDev)</td>
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<tr>
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<tr>
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<tr>
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<tr>
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Sample Size 582

### Males

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<tr>
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<tr>
<td>Minimum</td>
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<td>Maximum</td>
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Sample Size 738

### Percentiles

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<td>338.9</td>
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<td>13.79</td>
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<td>354.0</td>
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<td>14.20</td>
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<td>363.7</td>
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<td>14.55</td>
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<tr>
<td>438.1</td>
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<td>17.25</td>
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</table>
(42) Scye Depth

The surface distance along the spine between the cervicale landmark on the base of the back of the neck and the scye-level-at-midspine landmark is measured with a tape. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed.
### Scye Depth

#### Females

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Coefficient of Variation 7.8%
Symmetry----Veta I 0.28
Kurtosis----Veta II 3.06

Sample Size 582

#### Males

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Coefficient of Variation 7.1%
Symmetry----Veta I 0.33
Kurtosis----Veta II 3.78

Sample Size 738

#### Percentiles

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<td>166.2 5th</td>
<td>6.54</td>
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<tr>
<td>170.4 10th</td>
<td>6.71</td>
</tr>
<tr>
<td>173.3 15th</td>
<td>6.82</td>
</tr>
<tr>
<td>175.6 20th</td>
<td>6.91</td>
</tr>
<tr>
<td>177.7 25th</td>
<td>7.00</td>
</tr>
<tr>
<td>179.7 30th</td>
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<td>8.44</td>
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<td>218.2 97th</td>
<td>8.59</td>
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<tr>
<td>220.8 98th</td>
<td>8.69</td>
</tr>
<tr>
<td>224.4 99th</td>
<td>8.83</td>
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</table>
(43) Shoulder Circumference

The horizontal circumference of the shoulders at the level of the maximum protrusion of the right deltoid muscle is measured with a tape. The subject stands erect looking straight ahead. The shoulders and upper extremities are relaxed with the palms facing the thighs. The measurement is taken at the maximum point of quiet respiration.
### Females

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</tr>
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<tr>
<td>1192.0</td>
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<tr>
<td></td>
<td>Coefficient of Variation</td>
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<td></td>
<td>Kurtosis----Veta II</td>
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<td>Sample Size</td>
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### Males

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<td>1401.0</td>
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<td></td>
<td>Coefficient of Variation</td>
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<tr>
<td></td>
<td>Symmetry----Veta I</td>
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<tr>
<td></td>
<td>Kurtosis----Veta II</td>
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<table>
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<th>Inches</th>
</tr>
</thead>
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<td>2nd</td>
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(44) Shoulder Length

The surface distance between the trapezius landmark at the base of the side of the neck and the acromion landmark on the tip of the right shoulder is measured with a tape. The subject stands looking straight ahead. The shoulders and upper extremities are relaxed.
### (44) Shoulder Length

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Coefficient of Variation: 7.8%
Symmetry: -0.07
Kurtosis: 3.22

Sample Size: 582

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<td>Maximum</td>
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Coefficient of Variation: 7.4%
Symmetry: 0.14
Kurtosis: 3.07

Sample Size: 738

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<td>178.4</td>
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(45) Sitting Height

The vertical distance between a sitting surface and the top of the head is measured with an anthropometer. The subject sits erect with the head in the Frankfort plane. The shoulders and upper arms are relaxed and the forearms and hands are extended forward horizontally with the palms facing each other. The thighs are parallel and the knees are flexed 90 degrees with the feet in line with the thighs. The measurement is made at the maximum point of quiet respiration.
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Coefficient of Variation: 3.9%
Symmetry----Veta I: 0.11
Kurtosis----Veta II: 2.88

**Sample Size**: 582

### Males

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Coefficient of Variation: 3.7%
Symmetry----Veta I: -0.02
Kurtosis----Veta II: 3.09

**Sample Size**: 736

### Percentiles

#### Females

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(46) Sleeve Length: Spine-Elbow

The horizontal surface distance between the midspine landmark and the olecranon-center landmark on the tip of the raised elbow is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.
### (46) Sleeve Length: Spine-Elbow

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Sample Size: 582

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Sample Size: 738

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</tr>
<tr>
<td>99th</td>
<td>26.04</td>
<td>661.5</td>
</tr>
</tbody>
</table>
(47) Sleeve Length: Spine-Scye

The horizontal surface distance between the midspine landmark and the right posterior-diagonal-scye landmark at the back of the raised right arm near the armpit is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.
### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>8.24</td>
</tr>
<tr>
<td>SE(Mean)</td>
<td>0.02</td>
</tr>
<tr>
<td>StDev</td>
<td>0.51</td>
</tr>
<tr>
<td>SE(StDev)</td>
<td>0.01</td>
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<tr>
<td>Minimum</td>
<td>6.89</td>
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<tr>
<td>Maximum</td>
<td>9.92</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 6.2%
Symmetry——Veta I: 0.04
Kurtosis——Veta II: 2.75

Sample Size: 582

### Males

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>SE(Mean)</td>
<td>0.02</td>
</tr>
<tr>
<td>StDev</td>
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</tr>
<tr>
<td>SE(StDev)</td>
<td>0.02</td>
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<tr>
<td>Minimum</td>
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</tr>
<tr>
<td>Maximum</td>
<td>10.83</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 6.6%
Symmetry——Veta I: 0.05
Kurtosis——Veta II: 2.95

Sample Size: 738

### Percentiles

<table>
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<th>Millimeters</th>
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<tbody>
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<td>185.3</td>
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<td>187.6</td>
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<tr>
<td>192.0</td>
<td>10th</td>
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<tr>
<td>195.2</td>
<td>15th</td>
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<td>200.3</td>
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<tr>
<td>225.7</td>
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<tr>
<td>230.2</td>
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<td>233.4</td>
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<td>235.9</td>
<td>98th</td>
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<tr>
<td>240.2</td>
<td>99th</td>
</tr>
</tbody>
</table>
(48) Sleeve Length: Spine-Wrist

The horizontal surface distance from the midspine landmark, across the olecranon-center landmark at the tip of the raised right elbow, to the dorsal wrist landmark is measured with a tape. The measurement is made while the subject holds his/her arms up in a horizontal position parallel to the standing surface and joins them by bringing the fists together at the metacarpophalangeal and proximal interphalangeal knuckles. The forearms and fists are in a straight line.
### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
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<tbody>
<tr>
<td>Mean</td>
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<tr>
<td>SE(Mean)</td>
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<tr>
<td>StdDev</td>
<td>1.46</td>
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<tr>
<td>SE(StdDev)</td>
<td>0.04</td>
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</table>

Coeficient of Variation: 4.6%
Symmetry----Veta I: -0.04
Kurtosis----Veta II: 3.47

Sample Size: 582

### Males

<table>
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<th>Inches</th>
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</thead>
<tbody>
<tr>
<td>Mean</td>
<td>34.90</td>
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<tr>
<td>StdDev</td>
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</tr>
<tr>
<td>SE(StdDev)</td>
<td>0.04</td>
</tr>
</tbody>
</table>

Coeficient of Variation: 4.3%
Symmetry----Veta I: 0.01
Kurtosis----Veta II: 3.03

Sample Size: 738

### Percentiles

#### Females

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<td>787.5</td>
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<td>792.1</td>
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<td>796.5</td>
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</tr>
<tr>
<td>810.0</td>
<td>60th</td>
</tr>
<tr>
<td>814.8</td>
<td>65th</td>
</tr>
<tr>
<td>819.9</td>
<td>70th</td>
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<tr>
<td>825.5</td>
<td>75th</td>
</tr>
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<td>831.9</td>
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<td>839.3</td>
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<tr>
<td>848.7</td>
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<tr>
<td>862.5</td>
<td>95th</td>
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<tr>
<td>871.2</td>
<td>97th</td>
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<td>877.3</td>
<td>98th</td>
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<tr>
<td>886.3</td>
<td>99th</td>
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</tbody>
</table>

#### Males

<table>
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<th>Inches</th>
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<tbody>
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<tr>
<td>810.5</td>
<td>2nd</td>
</tr>
<tr>
<td>816.1</td>
<td>3rd</td>
</tr>
<tr>
<td>824.0</td>
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<td>836.9</td>
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</tr>
<tr>
<td>846.0</td>
<td>15th</td>
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<tr>
<td>853.4</td>
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<td>859.8</td>
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</table>
(49) Sleeve Outseam

The straight-line distance between the acromion landmark on the tip of the right shoulder and the styliion landmark on the right wrist is measured with a tape. The subject stands erect with both arms straight at the sides and the palms facing forward.
### (49) Sleeve Outseam

<table>
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<tr>
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<td>SE(StDev)</td>
<td>0.03</td>
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<tr>
<td>421.0</td>
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<tr>
<td>641.0</td>
<td>Maximum</td>
<td>25.24</td>
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Coefficient of Variation: 5.6%
Symmetry----Veta I: 0.10
Kurtosis----Veta II: 3.49

Sample Size: 582

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<td>Inches</td>
<td></td>
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<td>StDev</td>
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</tr>
<tr>
<td>0.8</td>
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</tr>
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<td>481.0</td>
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<tr>
<td>693.0</td>
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<td>27.28</td>
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Coefficient of Variation: 5.0%
Symmetry----Veta I: 0.08
Kurtosis----Veta II: 3.04

Sample Size: 738

<table>
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<td>23.60</td>
</tr>
<tr>
<td>606.1</td>
<td>98th</td>
<td>23.86</td>
</tr>
<tr>
<td>617.4</td>
<td>99th</td>
<td>24.31</td>
</tr>
</tbody>
</table>
(50) Span

The distance between the tips of the middle fingers of the horizontally outstretched arms is measured on a wall chart. The subject stands erect with his/her back against a wall-mounted scale and with the heels together. Both arms and hands are stretched horizontally against a back wall with the tip of the middle finger of one hand just touching a side wall. A block is placed at the tip of the middle finger of the other hand to establish the measurement on the scale. The measurement is taken at the maximum point of quiet respiration.
### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
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<td>StDev</td>
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<tr>
<td>SE(StDev)</td>
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**Coefficient of Variation**: 4.8%

**Symmetry---Veta I**: 0.13

**Kurtosis---Veta II**: 3.47

**Sample Size**: 579

### Males

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>SE(StDev)</td>
<td>0.08</td>
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</table>

<table>
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**Coefficient of Variation**: 4.3%

**Symmetry---Veta I**: 0.03

**Kurtosis---Veta II**: 3.37

**Sample Size**: 732

### Percentiles

#### Females

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<td>10th</td>
<td>61.10</td>
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<td>15th</td>
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#### Males

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(51) Stature

The vertical distance from a standing surface to the top of the head is measured with an anthropometer. The subject stands erect with the head in the Frankfort plane. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### (51) Stature

#### Females

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<tr>
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Coefficient of Variation: 4.2%
Symmetry----Veta I: 0.15
Kurtosis----Veta II: 3.04

Sample Size: 582

#### Males

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Coefficient of Variation: 3.9%
Symmetry----Veta I: -0.03
Kurtosis----Veta II: 3.04

Sample Size: 738

#### Percentiles

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(52) Tenth Rib Height

The vertical distance between a standing surface and the tenth rib landmark at the bottom of the right side of the rib cage is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.
### (52) Tenth Rib Height

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### Percentiles

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(53) Thigh Circumference

The circumference of the right thigh at its juncture with the buttock is measured with a tape. The measurement is made perpendicular to the long axis of the thigh. The subject stands erect with the weight distributed equally on both feet. The legs are spread apart just enough so that the thighs do not touch.
(53) Thigh Circumference

| Females | | Males | |
|---------|-----------------|-----------------|
| **Millimeters** | **Inches** | **Millimeters** | **Inches** |
| Mean 580.9 | 22.87 | Mean 600.1 | 23.63 |
| SE(Mean) 1.9 | 0.08 | SE(Mean) 1.8 | 0.07 |
| StDev 46.6 | 1.83 | StDev 49.0 | 1.93 |
| SE(StDev) 1.4 | 0.05 | SE(StDev) 1.3 | 0.05 |
| Minimum 423.0 | 16.65 | Minimum 459.0 | 18.07 |
| Maximum 726.0 | 28.58 | Maximum 787.0 | 30.98 |

Coefficient of Variation 8.0%
Symmetry----Veta I 0.25
Kurtosis----Veta II 3.17

Sample Size 582

| Percentiles | | Percentiles | |
|-------------|-----------------|-------------|
| **Millimeters** | **Inches** | **Millimeters** | **Inches** |
| 1st 477.6 | 18.80 | 1st 488.2 | 19.22 |
| 2nd 490.4 | 19.31 | 2nd 499.7 | 19.67 |
| 3rd 498.1 | 19.61 | 3rd 507.5 | 19.98 |
| 5th 508.2 | 20.01 | 5th 518.4 | 20.41 |
| 10th 523.3 | 20.60 | 10th 536.0 | 21.10 |
| 15th 533.4 | 21.00 | 15th 548.1 | 21.58 |
| 20th 541.5 | 21.32 | 20th 557.9 | 21.96 |
| 25th 548.5 | 21.60 | 25th 566.3 | 22.30 |
| 30th 554.9 | 21.85 | 30th 573.9 | 22.59 |
| 35th 561.0 | 22.09 | 35th 580.9 | 22.87 |
| 40th 566.8 | 22.31 | 40th 587.5 | 23.13 |
| 45th 572.5 | 22.54 | 45th 593.9 | 23.38 |
| 50th 578.3 | 22.77 | 50th 600.2 | 23.63 |
| 55th 584.2 | 23.00 | 55th 606.5 | 23.88 |
| 60th 590.3 | 23.24 | 60th 612.9 | 24.13 |
| 65th 596.7 | 23.49 | 65th 619.4 | 24.39 |
| 70th 603.6 | 23.76 | 70th 626.2 | 24.65 |
| 75th 611.2 | 24.06 | 75th 633.6 | 24.94 |
| 80th 619.8 | 24.40 | 80th 641.8 | 25.27 |
| 85th 630.1 | 24.81 | 85th 651.2 | 25.64 |
| 90th 643.4 | 25.33 | 90th 663.0 | 26.10 |
| 95th 663.5 | 26.12 | 95th 680.4 | 26.79 |
| 97th 676.7 | 26.64 | 97th 691.6 | 27.23 |
| 98th 686.3 | 27.02 | 98th 700.0 | 27.56 |
| 99th 701.3 | 27.61 | 99th 713.2 | 28.08 |
(54) Thigh Clearance

The vertical distance between a sitting surface and the highest point on the top of the right thigh is measured with an anthropometer. The subject sits with the thighs parallel, knees flexed 90 degrees, and the feet in line with the thighs.
(54) Thigh Clearance

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<td>189.8</td>
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<td>201.0</td>
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</table>
(55) Thumtip Reach

The horizontal distance from a back wall to the tip of the right thumb is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and shoulders are against the wall. The right arm and hand, palm down, are stretched forward horizontally along a scale on the side wall. The thumb continues the horizontal line of the arm and the index finger curves around to touch the pad at the end of thumb. The subject's right shoulder is held against the rear wall.
### Females

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<td>SE(StDev)</td>
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<tr>
<td>847.0</td>
<td>Maximum</td>
<td>33.35</td>
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Coefficient of Variation: 5.1%
Symmetry----Veta I: 0.16
Kurtosis----Veta II: 3.37

Sample Size: 580

### Males

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<td>StDev</td>
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<td>1.0</td>
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<td>662.0</td>
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<tr>
<td>925.0</td>
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Coefficient of Variation: 4.7%
Symmetry----Veta I: 0.13
Kurtosis----Veta II: 2.97

Sample Size: 733

### Percentiles

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<td>810.1</td>
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<td>31.89</td>
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<tr>
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<td>32.41</td>
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(56) Vertical Trunk Circumference (USA)*

The vertical circumference of the torso is measured with a tape passing over the maximum protrusion of the right buttock, to the right of the genitalia, over the right bustpoint landmark on women or the nipple (thelion) on men, and across the midshoulder landmark. The subject stands erect looking straight ahead with the right arm hanging relaxed at the side. The heels are together with the weight distributed equally on both feet. The measurement is taken at the maximum point of quiet respiration.

*US Army
### (56) Vertical Trunk Circumference (USA)

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<thead>
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<td>2.1 SE(StDev)</td>
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(57) Waist Back Length (Omphalion)

The surface distance between the cervicale landmark at the back of the neck and the posterior-waist (omphalion) landmark at the level of the navel is measured with a tape. The subject stands erect with the head in the Frankfort plane. The shoulders and upper extremities are relaxed. The measurement is taken at the maximum point of quiet respiration.
### (57) Waist Back Length (Omphalion)

#### Females

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<td>Symmetry----Veta I</td>
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<td>Kurtosis----Veta II</td>
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#### Males

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#### Percentiles

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<td>411.0</td>
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<td>512.1</td>
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(58) **Waist Circumference (Natural Indentation)**

The horizontal circumference of the waist at the level of its natural indentation is measured with a tape passing over right and left waist (natural indentation) landmarks. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is made at the maximum point of quiet respiration.
(58) Waist Circumference (Natural Indentation)

<table>
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<tr>
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<th>Males</th>
<th></th>
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<td><strong>Millimeters</strong></td>
<td><strong>Inches</strong></td>
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<td>SE(Means)</td>
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<td>SE(StDev)</td>
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<td>Coefficient of Variation</td>
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<td>Kurtosis----Veta II</td>
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| Sample Size | 582 |

| Percentiles | Females | | Males | |
|-------------|---------|-------|-------|
| **Millimeters** | **Inches** | **Millimeters** | **Inches** |
| 602.6 | 1st | 23.73 | 715.0 | 1st |
| 618.2 | 2nd | 24.34 | 728.1 | 2nd |
| 627.1 | 3rd | 24.69 | 737.1 | 3rd |
| 638.4 | 5th | 25.14 | 750.1 | 5th |
| 655.2 | 10th | 25.80 | 772.0 | 10th |
| 666.7 | 15th | 26.25 | 787.9 | 15th |
| 676.3 | 20th | 26.62 | 801.2 | 20th |
| 684.9 | 25th | 26.96 | 813.2 | 25th |
| 693.0 | 30th | 27.28 | 824.2 | 30th |
| 700.9 | 35th | 27.59 | 834.6 | 35th |
| 708.7 | 40th | 27.90 | 844.7 | 40th |
| 716.7 | 45th | 28.21 | 854.6 | 45th |
| 724.9 | 50th | 28.54 | 864.6 | 50th |
| 733.4 | 55th | 28.88 | 874.8 | 55th |
| 742.5 | 60th | 29.23 | 885.1 | 60th |
| 752.2 | 65th | 29.61 | 895.9 | 65th |
| 762.8 | 70th | 30.03 | 907.4 | 70th |
| 774.8 | 75th | 30.50 | 919.9 | 75th |
| 788.7 | 80th | 31.05 | 933.9 | 80th |
| 805.4 | 85th | 31.71 | 950.0 | 85th |
| 827.3 | 90th | 32.57 | 970.2 | 90th |
| 860.4 | 95th | 33.87 | 999.1 | 95th |
| 881.8 | 97th | 34.72 | 1016.8 | 97th |
| 897.3 | 98th | 35.33 | 1029.2 | 98th |
| 920.5 | 99th | 36.24 | 1047.2 | 99th |

Sample Size: 738
(59) Waist Circumference (Omphalion)

The horizontal circumference of the waist at the level of the center of the navel (omphalion) is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The measurement is made at the maximum point of quiet respiration.
### (59) Waist Circumference (Omphalion)

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(60) Waist Front Length (Omphalion)

The surface distance between the anterior-neck landmark and the center of the navel (omphalion) is measured with a tape. The subject stands erect with the head in the Frankfort plane. The measurement is made at the maximum point of quiet respiration.
### (60) Waist Front Length (Omphalion)

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### Percentiles

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(61) Waist Height (Natural Indentation)

The vertical distance between a standing surface and the landmark at the natural indentation of the right waist is measured with an anthropometer. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet. The shoulders and upper extremities are relaxed. The measurement is made at the maximum point of quiet respiration.
### (61) Waist Height (Natural Indentation)

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Coefficient of Variation: 5.3%

Symmetry----Veta I: 0.13

Kurtosis----Veta II: 3.11

Sample Size: 582

#### Males

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Coefficient of Variation: 4.6%

Symmetry----Veta I: -0.03

Kurtosis----Veta II: 2.97

Sample Size: 738

#### Percentiles

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(62) Waist Height, Sitting (Natural Indentation)

The vertical distance from a sitting surface to the landmark at the natural indentation of the right waist is measured with an anthropometer. The subject sits erect looking straight ahead. The knees are flexed 90 degrees. The measurement is made at the maximum point of quiet respiration.
(62) Waist Height, Sitting (Natural Indentation)

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(63) Waist Height, Sitting (Omphalion)

The vertical distance from a sitting surface to the center of the navel (omphalion) is measured with an anthropometer. The subject sits erect looking straight ahead. The knees are flexed 90 degrees. The measurement is made at the maximum point of quiet respiration.
(63) Waist Height, Sitting (Omphalion)

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(64) Waist-Hip Length

The surface distance between the right waist (omphalion) landmark and the right lateral-buttock-point landmark on the side of the hip is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet.
### (64) Waist-Hip Length

#### Females

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<td>StDev</td>
<td>0.84</td>
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<tr>
<td>SE(StDev)</td>
<td>0.02</td>
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| Minimum     | 3.90   |
| Maximum     | 8.42   |

Coefficient of Variation: 13.9%
Symmetry: --Veta I: -0.00
Kurtosis: --Veta II: 2.58

Sample Size: 582

#### Males

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<tr>
<th>Millimeters</th>
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<td>0.83</td>
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<tr>
<td>SE(StDev)</td>
<td>0.02</td>
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</table>

| Minimum     | 4.72   |
| Maximum     | 9.49   |

Coefficient of Variation: 11.8%
Symmetry: --Veta I: -0.03
Kurtosis: --Veta II: 2.87

Sample Size: 738

#### Percentiles

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(65) Waist (Natural Indentation)-Waist (Omphalion) Length

The surface distance between the right waist (natural indentation) and right waist (omphalion) landmarks is measured with a tape. The subject stands erect looking straight ahead. The heels are together with the weight distributed equally on both feet.
## (65) Waist (Natural Indentation)-Waist (Omphalion) Length

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Coefficient of Variation 30.0%
Symmetry----Veta I 0.22
Kurtosis----Veta II 3.05

**Sample Size** 582

### Males

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Coefficient of Variation 27.8%
Symmetry----Veta I 0.18
Kurtosis----Veta II 2.97

**Sample Size** 738

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<td>4.76</td>
</tr>
</tbody>
</table>
(66) Weight

The weight of the subject is taken to the nearest tenth of a kilogram. The subject stands on the platform of a scale.
### Females

<table>
<thead>
<tr>
<th>Kilograms</th>
<th>Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
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<tr>
<td>SE(Mean)</td>
<td>0.79</td>
</tr>
<tr>
<td>StDev</td>
<td>19.32</td>
</tr>
<tr>
<td>SE(StDev)</td>
<td>0.57</td>
</tr>
<tr>
<td>Minimum</td>
<td>85.58</td>
</tr>
<tr>
<td>Maximum</td>
<td>212.74</td>
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Coefficient of Variation: 1.4%
Symmetry----Veta I: 0.05
Kurtosis----Veta II: 0.36

Sample Size: 582

### Males

<table>
<thead>
<tr>
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<tr>
<td>StDev</td>
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<td>SE(StDev)</td>
<td>0.66</td>
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<td>Minimum</td>
<td>116.38</td>
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<tr>
<td>Maximum</td>
<td>257.18</td>
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Coefficient of Variation: 1.4%
Symmetry----Veta I: 0.03
Kurtosis----Veta II: 0.28

Sample Size: 738
(67) Wrist-Center of Grip Length

The horizontal distance between the styliion landmark on the right wrist and the center of a dowel (1-1/4" diameter) gripped in the right hand is measured with a Poech caliper. The subject sits grasping a dowel in the right hand. The base of the dowel is flush with the bottom of the fist. The subject puts the bottom of the fist on a flat surface in such a way that the base of the dowel rests on the surface. The fist is in line with the long axis of the forearm.
### (67) Wrist-Center of Grip Length

<table>
<thead>
<tr>
<th>Females</th>
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<td>SE(Mean)</td>
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<tr>
<td>5.1</td>
<td>StDev</td>
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<tr>
<td>0.1</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>53.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>81.0</td>
<td>Maximum</td>
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<tr>
<td>Coefficient of Variation</td>
<td>7.7%</td>
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<tr>
<td>Symmetry----Veta I</td>
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<td>Kurtosis----Veta II</td>
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<th><strong>Inches</strong></th>
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<td>3rd</td>
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<td>64.8</td>
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<td>65th</td>
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<td>81.4</td>
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</tbody>
</table>

151
(68) Wrist Circumference

The circumference of the wrist perpendicular to the long axis of the forearm is measured with a tape passing over the styliion landmark on the wrist. The subject extends the right arm forward with the palm up.
## (68) Wrist Circumference

### Females

<table>
<thead>
<tr>
<th>Millimeters</th>
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<tr>
<td>7.0</td>
<td>StDev</td>
</tr>
<tr>
<td>0.2</td>
<td>SE(StDev)</td>
</tr>
<tr>
<td>130.0</td>
<td>Minimum</td>
</tr>
<tr>
<td>180.0</td>
<td>Maximum</td>
</tr>
</tbody>
</table>

Coefficient of Variation: 4.6%

Symmetry---Veta I: 0.23
Kurtosis---Veta II: 3.16

Sample Size: 582

### Males

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<thead>
<tr>
<th>Millimeters</th>
<th>Inches</th>
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<tbody>
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</table>

Coefficient of Variation: 4.9%

Symmetry---Veta I: 0.15
Kurtosis---Veta II: 3.04

Sample Size: 738

### Percentiles

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<table>
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<td>98th</td>
</tr>
<tr>
<td>195.9</td>
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</tr>
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</table>
(69) Wrist-Wall Length

The horizontal distance between a back wall and the stylion landmark on the right wrist of the outstretched arm is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and shoulders are against the wall. The right arm and hand with the palm down is stretched forward horizontally against a scale on the side wall. The thumb continues the horizontal line of the arm and the index finger curves around to touch the pad at the end of the thumb. The subject's right shoulder is held against the rear wall.
### (69) Wrist-Wall Length

<table>
<thead>
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<th>Females</th>
<th>Males</th>
</tr>
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<tbody>
<tr>
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<td><strong>Millimeters</strong></td>
</tr>
<tr>
<td><strong>Inches</strong></td>
<td><strong>Inches</strong></td>
</tr>
<tr>
<td>614.2 Mean</td>
<td>680.6 Mean</td>
</tr>
<tr>
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<td>1.2 SE(Mean)</td>
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<tr>
<td>32.3 StDev</td>
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<tr>
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<tr>
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<td>Symmetry----Veta I</td>
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<tr>
<td>Kurtosis----Veta II</td>
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Sample Size 580

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</table>
(70) Wrist-Wall Length, Extended

The horizontal distance between a back wall and the stylion landmark on the right wrist of the maximally outstretched arm is measured on a wall scale. The subject stands erect in a corner looking straight ahead with the feet together and the heels 20 cm from the back wall. The buttocks and the left shoulder are against the wall. The right arm and hand with the palm down are stretched forward horizontally as far as possible against the side wall. The thumb continues the horizontal line of the arm and the index finger curves around to touch the pad at the end of the thumb. The subject's left shoulder is held against the rear wall.
### Females

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Coefficient of Variation: 5.2%
Symmetry—Veta I: 0.26
Kurtosis—Veta II: 3.59

**Sample Size**: 580

### Males

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Coefficient of Variation: 4.9%
Symmetry—Veta I: 0.12
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**Sample Size**: 733

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| 27.05 |
| 27.25 |
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CHAPTER III

CORRELATIONS
### Male Correlation Coefficients

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| 44 | Shoulder Lgth | .342 | .073 | .099 | .279 | .303 | .284 | .125 | .131 | .441 | .113 |
| 45 | Sitting Height | .977 | .224 | .233 | .474 | .545 | .519 | .356 | .330 | .371 | .315 |
| 46 | Slv Lgth Spine-El | .581 | .397 | .453 | .689 | .740 | .705 | .418 | .405 | .571 | .467 |
| 47 | Slv Lgth Spine-Sc | .383 | .388 | .481 | .323 | .363 | .335 | .327 | .325 | .607 | .344 |
| 48 | Slv Lgth Spine-Wr | .558 | .411 | .429 | .855 | .841 | .820 | .444 | .406 | .539 | .483 |
| 49 | Sleeve Outseam | .509 | .275 | .272 | .885 | .833 | .851 | .398 | .293 | .383 | .389 |
| 50 | Span | .551 | .292 | .303 | .934 | .854 | .878 | .423 | .281 | .429 | .380 |
| 51 | Stature | .803 | .278 | .289 | .798 | .883 | .884 | .438 | .365 | .414 | .403 |
| 52 | Tenth Rib Hght | .649 | .279 | .276 | .828 | .911 | .925 | .420 | .337 | .398 | .404 |
| 53 | Thigh Circ | .215 | .673 | .641 | .290 | .450 | .240 | .343 | .878 | .422 | .825 |
| 55 | Thumblip Reach | .492 | .323 | .323 | .871 | .828 | .817 | .424 | .343 | .462 | .435 |
| 56 | Vert Trnk Circ USA | .695 | .567 | .598 | .472 | .628 | .459 | .427 | .643 | .467 | .628 |
| 58 | Waist Circ, Nl | .074 | .668 | .754 | .299 | .412 | .253 | .329 | .605 | .479 | .630 |
| 59 | Waist Circ, O | .047 | .579 | .694 | .221 | .396 | .205 | .276 | .661 | .415 | .618 |
| 60 | Waist Front Lgth, O | .588 | .315 | .381 | .288 | .419 | .318 | .286 | .396 | .313 | .366 |
| 61 | Waist Hght, Nl | .630 | .320 | .335 | .814 | .897 | .904 | .410 | .389 | .420 | .444 |
| 63 | Waist Hght Sit, O | .593 | .356 | .350 | .311 | .387 | .305 | .278 | .434 | .310 | .426 |
| 64 | Waist Hip Lgth | .477 | -.103 | -.122 | .180 | .163 | .177 | .054 | -.016 | .037 | -.017 |
| 65 | Waist NI Waist O Lg | .054 | .237 | .288 | .064 | .125 | .065 | .091 | .275 | .177 | .262 |
| 66 | Weight | .396 | .775 | .777 | .509 | .657 | .464 | .476 | .813 | .574 | .846 |
| 67 | Wrist Cen Grip Lgth | .241 | .283 | .278 | .395 | .346 | .328 | .171 | .235 | .209 | .252 |
| 68 | Wrist Circ | .417 | .722 | .517 | .524 | .476 | .398 | .423 | .421 | .436 | .599 |
| 69 | Wrist Wall Lgth | .475 | .303 | .315 | .830 | .809 | .797 | .406 | .327 | .455 | .413 |
| 70 | Wrist Wall Lgth, Ex | .479 | .312 | .315 | .799 | .798 | .790 | .391 | .315 | .435 | .405 |

* Correlation not significant at p ≤ .05
|   | Ab Ext Depth, S | Acromial Ht, Sitting | Ankle Circ | Biceps C Flex | Bideltoft Bdh S | Bustpt-Bustpt Bdh | Buttock Circ | Buttock Height | Buttock-Knee Lgth | Buttock-Pop Lgth |
|---|----------------|----------------------|-----------|--------------|----------------|------------------|--------------|----------------|------------------|----------------|----------------|
| 1 | .170           | .469                 | .281      | .139         | .345           | .223             | .334         | .925           | .813             | .816           |                 |
| 3 | .609           | .353                 | .243      | .061         | .132           | .139             | .699         | .444           | .349             | .327           | .275           |
| 5 | .561           | .260                 | .334      | .461         | .524           | .477             | .635         | .227           | .357             | .275           | .282           |
| 7 | .115           | .347                 | .622      | .617         | .392           | .385             | .552         | .898           | .434             | .820           | .820           |
| 10|               |                      |          |              |                |                  |              |                |                  |                |                |
| 11| Calf Circumference | .259                 | .840      | .267         | .308           | .175             | .937         | .350           | .286             | .343           | -.103          |
| 12| Calf Height    | .346                 | .860      | .323         | .369           | .227             | .943         | .540           | .306             | .428           | -.079          |
| 13| Chest Circ     | .195                 | .376      | .144         | .158           | .091             | .418         | .230           | .217             | .227           | -.095          |
| 14| Chest Circ at Scye | .795                 | .351      | .592         | .665           | .566             | .240         | .540           | .128             | .130           | .120           |
| 15| Chest Depth    | .396                 | .158      | .562         | .665           | .616             | .137         | .347           | .150             | .150           | .150           |
| 16| Crotch Height  | .481                 | .259      | .698         | .650           | .604             | .228         | .441           | .198             | .198           | .198           |
| 17| Crotch Length, O | .450                 | .288      | .650         | .328           | .538             | .302         | .431           | .207             | .207           | .207           |
| 18| Crotch Lghth Pos, O | .266                 | .769      | .260         | .328           | .147             | .928         | .438           | .359             | .359           | .359           |
| 19| Elbow Circ     | .288                 | .550      | .629         | .798           | .538             | .798         | .496           | .403             | .403           | .403           |
| 20| Elbow Rest Height | -.091                | .650      | .867         | .791           | .408             | .791         | .491           | .403             | .403           | .403           |
| 21| Eye Height, Sitting | .495                 | .679      | .629         | .629           | .604             | .285         | .751           | .322             | .322           | .322           |
| 22| Forearm Circ, Flex | .521                 | .679      | .661         | .513           | .538             | .390         | .540           | .322             | .322           | .322           |
| 24| Forearm-Hand Lgth | .240                 | .237      | .227         | .338           | .181             | .426         | .426           | .103             | .103           | .103           |
| 25| Functional Leg Lgth | .237                 | .237      | .237         | .338           | .181             | .426         | .426           | .103             | .103           | .103           |
| 26| Gluteal Furrow Hght | .237                 | .237      | .237         | .338           | .181             | .426         | .426           | .103             | .103           | .103           |
| 27| Head Circ      | .396                 | .198      | .352         | .198           | .198             | .198         | .198           | .198             | .198           | .198           |
| 29| Intercyce II   | .466                 | .552      | .552         | .552           | .552             | .552         | .552           | .552             | .552           | .552           |
| 31| Knee Height, Mid | .967                 | .967      | .967         | .967           | .967             | .967         | .967           | .967             | .967           | .967           |
| 32| Knee Height, Sitting | .446                 | .446      | .446         | .446           | .446             | .446         | .446           | .446             | .446           | .446           |
| 34| Lower Thigh Circ | .441                 | .441      | .441         | .441           | .441             | .441         | .441           | .441             | .441           | .441           |
| 35| Neck Bustpt Lgth | .408                 | .408      | .408         | .408           | .408             | .408         | .408           | .408             | .408           | .408           |
| 36| Neck Circ      | .201                 | .201      | .201         | .201           | .201             | .201         | .201           | .201             | .201           | .201           |
| 39| Ovrdh Fngtr Rch S | .504                 | .504      | .504         | .504           | .504             | .504         | .504           | .504             | .504           | .504           |
| 40| Popliteal Height | .411                 | .411      | .411         | .411           | .411             | .411         | .411           | .411             | .411           | .411           |

* Correlation not significant at $p \leq .05$
**Female Correlation Coefficients**

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* Correlation not significant at $p \leq .05$
### Female Correlation Coefficients

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| 2 | Acromial Ht, Sitting | .611 | .562 | .580 | .387 | .103 | .448 | .246 | .419 | .445 | .448 |
| 3 | Ankle Circ | .308 | .259 | .376 | .051 | .120 | .642 | .249 | .618 | .274 | .300 |
| 4 | Biceps C Flex | .208 | .277 | .319 | -.191 | .310 | .796 | .243 | .553 | .180 | .181 |
| 5 | Bideyloid Bdth S | .417 | .335 | .417 | -.055 | .259 | .806 | .282 | .562 | .385 | .375 |
| 6 | Bustpt-Bustpt Bdth | .237 | .148 | .142 | -.108 | .197 | .478 | .118 | .337 | .237 | .211 |
| 7 | Buttock Circ | .415 | .388 | .509 | -.006 | .294 | .899 | .263 | .513 | .365 | .350 |
| 8 | Buttock Height | .905 | .302 | .340 | .061 | .096 | .541 | .358 | .431 | .803 | .806 |
| 9 | Buttock-Knee Lght | .836 | .325 | .421 | .144 | .157 | .721 | .315 | .485 | .748 | .710 |
| 10 | Buttock-Pop Lght | .821 | .260 | .367 | .165 | .092 | .587 | .272 | .393 | .740 | .705 |
| 11 | Calf Circumference | .297 | .265 | .348 | -.008 | .186 | .748 | .231 | .520 | .259 | .270 |
| 12 | Calf Height | .792 | .262 | .251 | -.088 | .110 | .471 | .317 | .378 | .708 | .689 |
| 13 | Chest Circ | .314 | .242 | .285 | -.217 | .310 | .824 | .235 | .533 | .331 | .331 |
| 14 | Chest Circ at Scye | .371 | .303 | .388 | -.144 | .290 | .836 | .259 | .564 | .373 | .369 |
| 15 | Chest Depth | .223 | .234 | .238 | -.242 | .343 | .752 | .157 | .456 | .229 | .231 |
| 16 | Crotch Height | .904 | .269 | .317 | .242 | .021 | .431 | .303 | .373 | .803 | .787 |
| 17 | Crotch Length, O | .464 | .437 | .733 | .456 | -.056 | .647 | .246 | .478 | .363 | .371 |
| 18 | Crotch Lght Pos, O | .354 | .322 | .573 | .538 | -.154 | .375 | .134 | .325 | .276 | .254 |
| 19 | Elbow Circ | .418 | .360 | .401 | -.077 | .288 | .848 | .313 | .768 | .393 | .390 |
| 20 | Elbow Rest Height | .069 | .425 | .407 | .225 | *.101 | .168 | .064 | .140 | -.146 | -.120 |
| 21 | Eye Height, Sitting | .630 | .548 | .593 | .477 | .054 | .396 | .241 | .417 | .475 | .479 |
| 22 | Forearm Circ, Flex | .320 | .295 | .356 | -.103 | .237 | .775 | .283 | .722 | .303 | .312 |
| 23 | Forearm-Forearm B | .335 | .302 | .350 | -.122 | .288 | .777 | .278 | .517 | .315 | .315 |
| 25 | Functional Leg Lght | .897 | .320 | .387 | .163 | .125 | .657 | .346 | .476 | .809 | .798 |
| 26 | Gluteal Furrrow Hght | .904 | .285 | .305 | .177 | .065 | .464 | .328 | .398 | .797 | .790 |
| 27 | Head Circ | .410 | .215 | .278 | .054 | *.091 | .476 | .171 | .423 | .406 | .391 |
| 28 | Hip Breadth, Sitting | .389 | .358 | .434 | -.016 | .275 | .813 | .235 | .421 | .327 | .315 |
| 29 | Interscye I | .420 | .310 | .310 | .037 | .177 | .574 | .209 | .436 | .455 | .435 |
| 30 | Knee Circ | .444 | .362 | .426 | -.017 | .262 | .846 | .252 | .599 | .413 | .405 |
| 31 | Knee Height, Mid | .891 | .279 | .312 | .216 | .061 | .483 | .320 | .419 | .796 | .769 |
| 32 | Knee Height, Sitting | .904 | .299 | .352 | .205 | .079 | .568 | .333 | .484 | .818 | .796 |
| 33 | Lateral Malleolus H | .425 | .212 | .211 | .80 | .054 | .244 | .208 | .283 | .342 | .323 |
| 34 | Lower Thigh Circ | .351 | .331 | .399 | -.057 | .265 | .832 | .241 | .556 | .320 | .320 |
| 35 | Neck Bustpt Lght | .233 | .182 | .207 | -.064 | .192 | .594 | .198 | .374 | .216 | .200 |
| 37 | Neck Circ, Base | .379 | .274 | .332 | -.046 | .185 | .676 | .220 | .567 | .400 | .441 |
| 38 | Ovrhd Fngtrp Rch E | .910 | .365 | .426 | .346 | .036 | .499 | .325 | .467 | .823 | .807 |
| 40 | Popliteal Height | .842 | .205 | .243 | .262 | -.035 | .291 | .280 | .341 | .766 | .754 |

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CHAPTER IV

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Bivariate Regression Results

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### Bivariate Regression Results

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Grand total not 1000 due to rounding

**Bivariate Regression Results**

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Bivariate Regression Results

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#### Bivariate Regression Results

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### Shoulder Circumference vs. Stature: Males

| Stature | 1007  | 1033  | 1059  | 1085  | 1111  | 1137  | 1163  | 1189  | 1215  | 1241  | 1267  | 1293  | 1319  | 1345  | 1371  | Total |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1497    | 1.4   |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1.0   |
| 1528    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.0   |
| 1559    |       | 4.1   | 1.4   |       |       | 1.4   |       |       |       |       |       |       |       |       |       | 7.0   |
| 1590    | 1.4   | 2.7   | 1.4   | 1.4   | 2.7   | 2.7   | 1.4   |       |       |       |       |       |       |       |       | 14.0  |
| 1621    | 2.7   | 4.1   | 4.1   | 2.7   | 10.8  | 4.1   | 4.1   | 1.4   |       |       |       |       |       |       |       | 34.0  |
| 1652    | 2.7   | 5.4   | 8.1   | 12.2  | 12.2  | 13.6  | 6.8   | 2.7   | 2.7   | 1.4   |       |       |       |       |       | 66.0  |
| 1683    | 5.4   | 1.4   | 6.8   | 19.0  | 16.3  | 16.3  | 17.6  | 19.0  | 10.8  | 2.7   | 2.7   | 1.4   |       |       |       | 122.0 |
| 1714    | 1.4   | 4.1   | 14.9  | 20.3  | 23.0  | 37.9  | 21.7  | 20.3  | 9.5   | 9.5   |       |       |       |       |       | 164.0 |
| 1745    | 1.4   | 2.7   | 4.1   | 12.2  | 13.6  | 28.5  | 46.0  | 33.9  | 20.3  | 10.8  | 6.8   | 4.1   | 2.7   | 1.4   |       | 188.0 |
| 1776    | 1.4   | 1.4   | 1.4   | 9.5   | 21.7  | 17.6  | 23.0  | 33.9  | 25.7  | 14.9  | 6.8   | 1.4   | 1.4   | 1.4   |       | 161.0 |
| 1807    | 1.4   | 1.4   | 1.4   | 2.7   | 12.2  | 24.4  | 12.2  | 14.9  | 21.7  | 10.8  | 1.4   | 1.4   |       | 1.4   |       | 107.0 |
| 1838    | 1.4   | 4.1   | 4.1   | 4.1   | 10.8  | 10.8  | 9.5   | 12.2  | 6.8   | 2.7   |       | 1.4   |       |       |       | 66.0  |
| 1869    | 1.4   | 2.7   | 4.1   | 4.1   | 6.8   | 8.1   | 8.1   | 8.1   | 2.7   | 1.4   | 5.4   | 1.4   |       |       |       | 50.0  |
| 1900    | 1.4   | 2.7   | 1.4   | 2.7   | 1.4   | 1.4   | 1.4   |       |       |       |       |       |       |       |       | 14.0  |
| 1931    |       | 4.1   | 1.4   |       |       |       |       |       |       |       |       |       |       |       |       | 5.0   |
| **Totals**: 9.0 | 19.0 | 28.0 | 81.0 | 98.0 | 131.0 | 188.0 | 153.0 | 119.0 | 85.0 | 49.0 | 18.0 | 14.0 | 5.0 | 1.0 | 1000.0 |

### Bivariate Regression Results

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## Sitting Height vs. Functional Leg Length: Males

| Leg Length | Sitting Height 810 | Sitting Height 825 | Sitting Height 840 | Sitting Height 855 | Sitting Height 870 | Sitting Height 885 | Sitting Height 900 | Sitting Height 915 | Sitting Height 930 | Sitting Height 945 | Sitting Height 960 | Sitting Height 975 | Sitting Height 990 | Sitting Height 1005 | Sitting Height 1020 | Total |
|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------|
| 881        | 1.4                |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 1.0   |
| 906        |                    | 1.4                |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 1.0  |
| 931        |                    |                    | 1.4                |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 1.0   |
| 956        | 1.4                | 4.1                | 1.4                | 1.4                | 2.7                | 4.1                |                    |                    |                    |                    |                    |                    |                    |                    |                    | 15.0  |
| 981        | 2.7                | 1.4                | 8.2                | 4.1                | 9.5                | 12.2               | 6.8                | 1.4                | 2.7                |                    |                    |                    |                    |                    |                    | 49.0  |
| 1006       | 2.7                | 1.4                | 4.1                | 8.2                | 8.2                | 19.0               | 23.0               | 16.3               | 6.8                | 1.4                |                    |                    |                    |                    |                    | 91.0  |
| 1031       | 1.4                | 8.2                | 16.3               | 27.1               | 37.9               | 32.5               | 27.1               | 14.9               | 5.4                | 1.4                |                    |                    |                    |                    |                    | 173.0 |
| 1056       | 1.4                | 1.4                | 17.7               | 17.7               | 24.4               | 33.9               | 43.5               | 16.3               | 13.6               | 2.7                | 2.7                |                    |                    |                    |                    | 175.0 |
| 1081       | 1.4                | 4.1                | 12.2               | 17.7               | 29.8               | 27.1               | 35.2               | 24.4               | 17.7               | 4.1                | 2.7                |                    |                    |                    |                    | 177.0 |
| 1106       | 1.4                | 1.4                | 5.4                | 6.8                | 19.0               | 35.2               | 21.7               | 23.0               | 23.0               | 6.8                |                    |                    |                    |                    |                    | 144.0 |
| 1131       | 2.7                | 2.7                |                    | 9.5                | 13.6               | 10.9               | 21.7               | 16.3               | 9.5                | 6.8                | 1.4                |                    |                    |                    |                    | 95.0   |
| 1156       | 1.4                | 2.7                | 2.7                | 4.1                | 5.4                | 12.2               | 8.2                | 9.5                | 1.4                | 1.4                | 4.1                |                    |                    |                    |                    | 53.0   |
| 1181       |                    |                    | 1.4                | 2.7                | 2.7                | 6.8                | 2.7                | 1.4                |                    |                    |                    |                    |                    |                    |                    | 18.0   |
| 1206       |                    |                    |                    | 1.4                |                   |                    |                   |                    |                    |                    |                    |                    |                    |                    |                    | 5.0   |
| 1231       |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    | 1.0   |
| Totals     | 3.0                | 7.0                | 15.0               | 35.0               | 71.0               | 103.0              | 164.0              | 173.0              | 156.0              | 120.0              | 92.0               | 37.0               | 16.0               | 4.0                | 4.0                | 1000.0 |

### Bivariate Regression Results

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Grand total not 1000 due to rounding

**Bivariate Regression Results**

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CHAPTER V

REGRESSION EQUATIONS
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### Regression Results for Stature / Chest Circumference

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Regression Results for Crotch Height / Buttock Circumference

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# Regression Results for Sleeve Outseam / Chest Circumference

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Regression Results for Crotch Height / Vertical Trunk Circumference (USA)

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# Regression Results for Stature / Weight

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## Regression Results for Buttock-Knee Length / Eye Height, Sitting

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Regression Results for Functional Leg Length / Overhead Fingertip Reach, Sitting

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Regression Results for Eye Height, Sitting / Overhead Fingertip Reach, Sitting

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<th>$\beta$ Eye Ht.</th>
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### Regression Results for Thumbtip Reach / Eye Height, Sitting

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### Regression Results for Thumtind Reach / Functional Leg Length

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REFERENCES


