# Weight And Height Of Adults 18-74 Years Of Age: 

United States, 1971-74

Weight and height measurements of white and black adults 18-74 years of age in the United States, 1971-74, are presented and discussed by age, sex, and race and are also compared with measurements of adults of similar ages in the United States, 1960-62.

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COOPERATION OF THE U.S. BUREAU OF THE CENSUS


#### Abstract

In accordance with specifications established by the National Center for Health Statistics, the Bureau of the Census, under a contractual agreement, participated in the design and selection of the sample, and carried out the first stage of the field interviewing and certain parts of the statistical processing.


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## SYMBOLS




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# WEIGHT AND HEIGHT OF ADULTS 18-74 YEARS OF AGE 

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## INTRODUCTION

The height and weight measurements in this report were obtained as a part of the Health and Nutrition Examination Survey (HANES). HANES is a program in which measures of nutritional status are collected for a scientifically designed sample representative of the civilian noninstitutionalized population of the United States in a broad range of ages, 1-74 years. The survey was also designed to obtain some information on the general health status of the entire age group as well as more detailed health assessment data on those 25 through 74 years of age. A detailed description of the specific content and plan of operation, including sample design, has been published. ${ }^{1}$

In previous Health Examination Survey programs, the U.S. Bureau of the Census cooperated in the sample design and in the initial visits and interviewing at selected eligible households in the 65 primary sampling units (PSU's) throughout the United States. Additional household visiting, interviewing, history taking, and explaining the examination portion of the program were performed by members of the field teams of the mobile examination center. The selected

[^1]sample persons for whom an appointment could be made were brought into the specially constructed mobile examination centers which were moved into a central location in each of the PSU's. The teams which traveled to the various survey locations throughout the country included professional and paraprofessional medical and dental examiners along with technicians, interviewers, and other staff.

The probability sample design used in the study provided for a higher sampling ratio of the poor, preschool children, women of childbearing ages, and the elderly than of others in the civilian noninstitutionalized population.

Field data collection operations for the first HANES survey were started in April 1971 and completed in June 1974. Of the 28,043 persons aged 1-74 years who were selected in the national probability sample to represent the 194 million persons in that age group in the civilian noninstitutionalized population, 20,749 , or 74 percent, were examined. When adjustments are made for the differential sampling ratios used to ensure oversampling among the poor, preschool children, women of childbearing age, and the elderly, the effective response rate is 75 percent. Among those $18-74$ years of age at the time of interview for whom height and weight determinations were made, there were 13,645 examined out of the probability sample of 19,572 selected to represent the 128 million persons of those ages in the population. This is an unadjusted response rate of 70 percent and an effective adjusted response rate of 70 percent.

In this report, weight and height data are analyzed and discussed by age, sex, and race. The techniques of measurement are discussed. The present findings are compared with the Health Examination Survey (HES) of 1960-62. ${ }^{2}$ Analysis of weight and height studies with variables other than age, race, and sex will be presented in future reports. Consideration of body composition and configuration, of obesity, and of nutritional status will also be subjects of future reports.

## METHODS

The examinees changed from their street clothing into disposable paper examination uniforms and foam rubber slippers designed to facilitate and standardize various elements of the examination. Body measurements were made at various times throughout the day at each examination center and in different seasons of the year; thus body measurements were not standardized with regard to diurnal and seasonal variations. Weights vary between winter and summer and may differ depending upon recency of food and water intake.

## Height

For persons aged 18-74 years, height was measured with the examinee wearing disposable foam rubber slippers, standing with feet together, back and heels against the upright bar of the height scale, head approximately in the Frankfort horizontal plant ("look straight ahead"), and erect ("stand up tall" or "stand up real straight" with some assistance and demonstration when necessary). However, upward pressure was not exerted by the examiner on the subject's mastoid processes to purposefully "stretch everyone in a standard manner," as is recommended by some.

[^2]The equipment consisted of a level platform to which was attached a vertical bar with a steel tape. Attached to the vertical bar perpendicularly was a horizontal bar which was brought down snugly on the examinee's head. Attached to another bar in the same plane as the horizontal measuring bar was a Polaroid camera which recorded the subject's identification number next to the pointer on the scale giving a precise reading. The camera not only gave a permanent record minimizing observer and recording error but, by sliding up and down with a horizontal bar and always being in the same plane, also completely eliminated parallax. That is, if the pointer had been in the space in front of the scale, it would have been read too high if the observer had looked up at the scale from below or too low if read down from above.

## Weight

A Toledo self-balancing scale that mechanically printed the weight to one-quarter of a pound directly onto the permanent record was used. This direct printing was used to minimize observer and recording errors. The scale was calibrated with a set of known weights, and any necessary fine adjustments were made at the beginning of each new trailer location, i.e., approximately every month. The recorded weight was later transferred to a punched card to the nearest 0.25 pound (lb.). The total weights of all clothing worn ranged from 0.20 to 0.62 lb .; this was not deducted from weights presented in this report. (The weights, then, are 0.20 to 0.62 lb . above nude weight recorded to the nearest 0.25 lb .). The examination clothing used was the same throughout the year so there is no seasonal variation in the weight of clothing.

## FINDINGS

## Weight

Age and sex.-The estimated numbers and percent distributions of men and women aged 18-74 years in each of the weight groups are presented in tables 1-3. Table 4 summarizes these distributions in terms of basic statistics for examined persons by age for men and women.

Table 4 shows that the mean weight of men aged 18-74 years was 172 pounds. Table 4 and figure 1 show that the mean weight of men increased from 165 pounds in age group 18-24 years to 178 pounds in age group 35-44 years. Thereafter it decreased with age to 175 pounds in age group $45-54$ years, 171 pounds at $55-64$ years, and a low of 164 pounds in the oldest age group measured, 65-74 years.

The mean weight of women was 143 pounds, 29 pounds less than that for men (table 4). Table 4 and figure 1 show that the mean weight increased with age from a low of 132 pounds at 18-24 years to a high of 149 pounds at ages $45-64$ years and then declined to 146 pounds in the oldest age group.

The age patterns of men and women described previously for mean weight were also generally evident when the percentiles at both the upper and lower ends of the distribution were examined (table 4, figure 2).

Race, sex, and age.-Estimated numbers and percent distributions of white and black adults in each of the age groups according to their weights are shown in tables 5-10. Table 11 and figure 3 summarize these distributions. The pattern in mean weight with age found for adult men in the United States was also found for


Figure 1. Mean weight in pounds of adults 18-74 years, by age and sex: United States, 1971-74
black and for white males separately. Mean weight increased among white men from a low of 165 pounds at $18-24$ years to a high of 178 pounds at $35-44$ years. Among black males, mean weight increased consistently with age from 166 pounds at age 18-24 to 182 pounds at age $35-44$ years. The mean weights of white men


Figure 2. Selected estimated percentiles of weight distribution in pounds of adults $18-74$ years, by age and sex: United States, 1971-74


Figure 3. Mean weight in pounds of adults 18-74 years, by age, sex, and race: United States, 1971-1974
decreased consistently with age from 45-54 years of age on. A similar pattern was not evident for black men. There was little consistent difference among the various age groups between the mean weights of black and white men.

Data on weight by age for black and white women tend to parallel with those shown for men, with the exception that the increase in mean weight of white women continued up to the age group 45-54 years and then declined (table 11). The means for black women showed a plateau effect and a slight decrease, however, at each age black women had larger mean weights than white women, with the differences averaging about 20 pounds for the age groups 35-64 years.

The interracial differences in weight for both men and women were generally greater, particularly for women, at the upper end of the distribution than at the lower end (figure 4). The weight distribution for black men had more variability than that for white men. The standard deviation of the weight distribution is greater at each age group for black men than for white men, as is the distance between the 95th


Figure 4. Selected estimated percentiles of weight distribution in pounds of men and women 18-74 years, bv age and race: United States, 1971-74
and 5 th percentiles, which represents about 90 percent of the men in the population. This pattern is also observed for black women when compared with white women.

## Height

Age and sex.-The estimated numbers and percent distributions of men and women aged 18-74 years by height are presented in tables 12-14. Table 15 and figure 5 summarize these distributions in terms of basic statistics for examined persons by age for men and women.

The mean height for men aged 18-74 years was 69.0 inches. The highest mean height, 69.7 inches, was found in the youngest age group, $18-24$ years, and is 2.4 inches taller than the mean height in age group 65-74 years, 67.3 inches. This corresponds with a small decrease in height with increasing age, which averages less than one-half inch per decade of age over the range $18-74$ years.

For women the mean height was 63.6 inches, 5.4 inches less than the mean height for men. The mean height for women was highest, 64.3 inches, in the youngest age group, as it was for men. The mean height decreased slightly to 64.1 inches at $25-34$ years, remained constant at $35-44$ years, and then declined to 63.6 inches at $45-54$ years, 62.8 inches at 55-64 years, and 62.3 inches in the oldest age group, 65 years and over. The difference between the youngest and oldest age group is 2.0 inches. The decrease in height with age averages less than one-half inch per decade over the age range of $18-74$ years (figure 5).

The age patterns of men and women described previously for the mean height were also generally evident when the percentiles at the upper and lower ends of the distribution were examined (figure 6).

Race, sex, and age.-The estimated population of white and black adults by height is presented in tables 16-19 and equivalently as percent distributions in tables 20 and 21. Mean heights are shown by age for white and black men and women in table 22 and figure 7. In each of the five age groups in the age range 18-64 years, white men were taller than black men. The average difference between heights of


Figure 5. Mean height in inches of adults $18-74$ years, by age and sex: United States, 1971-74
white and black men in these age groups was about one-half inch, which difference could be attributed to sampling variability. At age group 65-74 years, the mean height for black and white men was the same. This pattern by age and race is not observed for women, but average differences for women, as for men, were small. At age groups 18-24 and 25-34 years, white women were, on the average, 0.25 inch taller than black women. At ages 35-44 years, black women were 0.1 inch taller than white women; at ages 45-54 years, they were 0.2 inch taller; and at ages 65-74 years, they were 0.3 inch taller. At ages $55-64$ years, the mean height for both races was the same. Small differences such as these could easily arise through sampling error, and there seems to be no justification for stating that there is any difference in average height between black and white women.

The decrease in mean height with age shown previously for the total population of men is also observed for black and white men separately. This pattern is also evident for black and white women with the exception of the mean height for black women at age $35-44$ years.


Figure 6. Selected estimated percentiles of height distribution in inches of adults 18-74 years, by age and sex: United States, 1971-74


Figure 7. Mean height in inches of adults 18-74 vears, by age, sex, and race: United States, 1971-74

Here, there is an increase in height and then a decline.

Interracial differences for men of ages 45-74 years were greater at the upper end of the height distribution than at the lower end. This picture was reversed for men at the lower ages. The interracial differences in height, however, were small and could easily arise through sampling error (figure 8).

The differences between white and black women discussed previously for the mean of the height distribution were also observed at about the same order of magnitude for the lower end of the distribution, for the median, and for the upper end of the distribution (figure 8).

## Comparison With the Health Examination Survey (1960-62)

Comparison is made here of the present findings for the adult population of the United States with those from the previous Health Examination Survey, 1960-62. Table 2.3 shows the number of persons examined with height and weight measurements by sex and age for 1960-62 and 1971-74.


Figure 8. Selected estimated percentiles of height distribution in inches of men and women 18-74 years, by age and race: United States, 1971-74

Findings from the present study show that adults in the United States weighed more, on the average, than their counterparts in 1960-62. The HANES data on weights for men are consistently higher by an average of 6 pounds across the age range $18-74$ years; for women, they are higher by an average of 3 pounds for this age range.

The pattern of differences in average weight for men shows a slight variation with age. The differences ranged from an average of 5 pounds in ages $45-54$ years to an average of 8 pounds in ages $35-44$ years. For women, the differences in average weight ranged from less than 1 pound in ages $55-64$ years to an average of 6 pounds in ages 25-44 years (table 23, figure 9).

Tables 24 and 25 show cumulative percent distributions of weight for men and women by age in 1960-62 and 1971-74. In the most recent survey, 1971-74, the percent of men in each age group at the cutoff points indicated were greater than the corresponding percents of those in HES, 1960-62. This observation was also generally true for women with the exception of women ages 45 years and older.

The pattern of differences in weight at
various cutoff points found between the two surveys for total male adults in the United States was also consistently found for white males (table 26) but not for black males. Relatively


Figure 9. Mean weight in pounds of adults $18-74$ years, by age and sex in HES (1960-62) and HANES (1971-74): United States
$L$
more black males ages 25-34 weighing 160 pounds or more were found in HES, 1960-62, than in HANES, 1971-74. There were also some indications of this pattern in percent of males of weights 170 pounds or more in ages 25-44 and 45-54 years. The proportion with those body weights in both HES and HANES was greater among white men than among black men in almost all age groups.

The proportion of white and black females in ages through 44 years having body weights above 140 and 150 pounds was greater in HANES than in HES (table 27). This pattern in difference in proportion was not consistent in the older ages (tables 28-30). There was a greater percent of women at ages $18-44$ years who weighed 170 pounds or more, a crude estimate of obesity, in HANES than in HES. Women at these ages were heavier on the average than those of 10 years ago, particularly black women. The proportion of women with these body weights in both HES and HANES was greater among black women than among white women in all age groups.

Although heights of U.S. adults as measured from the Health and Nutrition Examination Survey, 1971-74, were taller than those from the Health Examination Survey, 1960-62, the differences are numerically small. HANES data for men's heights range from less than one-half inch to an inch taller than HES data. Corresponding values for women are from less than one-half inch to slightly more than three-quarters of an inch taller (table 23, figure 10).

Tables 31 and 32 show the cumulative percent distributions of height for men and women by age in 1960-62 and 1971-74. Men and women in HANES, 1971-74, were taller than those in HES, 1960-62. Fifty percent of the men in HANES were 69 inches or more as compared with 38 percent in HES across the age range of 18-74 years. The corresponding values for HANES and HES for heights of 70 inches or more are 36 and 28 percent, respectively. In this age range, 45 percent of the women in HANES were 64 inches or more as compared with 37 percent for HES. The corresponding values for HANES and HES for 65 inches or more are 30 and 21 percent, respectively. The proportions of men and women whose height exceeded any


Figure 10. Mean height in inches of adults $18-74$ years, by age and sex in HES (1960-62) and HANES (1971-74): United States
other specified height may be found in tables 31-32.

Tables $33-36$ show by age the percent of white and black men and women having heights of 69 inches or more and 64 inches or more. (These are the median heights for men and women, respectively.) In most ages and in each of the sex and race groups the proportions of persons above these selected heights were greater in 1971-74 than in 1960-62. The proportion of persons whose heights exceeded any other specified level may be calculated from the data presented in table 37.

The HANES data on weights for men were consistently higher by an average of 6 pounds across the age range $18-74$ years. The corresponding values for women were higher by an average of 3 pounds over the same age range. Heights of adults as measured during HANES were slightly greater than those from HES. Since weight increases per inch of height usually range on an average from 4 to 5 pounds in men and from 2 to 4 pounds in women, it can be stated that the increase in average weight for the population between 1960-62 and 1971-74 can be
attributed only in part to a corresponding increase in height.

The pattern of weight gain in the middle years and gradual decline with increasing age, in both surveys for men as well as for women, is illustrated in figure 11, which shows the proportionate change in average weight with age over the mean for the group aged $18-24$ years. This trend in both surveys is influenced by secular changes in body size for successive generations represented in this cross-sectional data.

Women in HES generally attained their maximum weight about two decades later than men did and had a greater relative gain with age. The latter pattern is also evident for women in HANES but they attained their maximum weight about one decade later than men did. This delay, in both periods, may be attributed to the greater effort of weight-conscious younger women. Here again, it is not possible to determine from the data how much these findings may be influenced by any changes in body size for the successive generations in this crosssection of the population.

On the average, the relative decrease of height with age from 45 years or more was simi-
lar for men and women in both surveys (figure 12).

Comparable response rates and similar measurement processes for recording height and weight are necessary to compare the body measurements from the two surveys.

The HES sample had a response rate of 95 percent interviewed and 86 percent examined, a highly representative sample of the civilian noninstitutionalized population of the United States. The corresponding rates for HANES were over 95 percent interviewed and 70 percent examined. The lower examination rate in the HANES sample than in the HES sample might have biased the mean weight-but not the mean height-downward because heavier persons, who are reported to be associated with more medical problems, might be less likely to come for examination. This is, however, unlikely, because an analysis of medical histories comparing the nonexaminees with the examinees indicates no large differences between the nonexamined group and the examined group for the medical statistics compared. For example, 12 percent of the persons examined reported having an illness or condition which interfered with their eating as com-


Figure 11. Relative change in weight with age over the mean for men and women $18-74$ years in HES (1960-62) and HANES (1971-74); United States


Figure 12. Relative change in height with age over the mean for men and women $18-74$ years in HES (1960-62) and HANES (1971-74); United States
pared with 10 percent of persons not examined. The percent of examined persons who reported ever being told by a doctor that they had arthritis was 20 percent; the proportion for high blood pressure was 18 percent; and the proportion for diabetes was 4 percent. The corresponding percents for nonexamined persons were: arthritis, 18 percent; high blood pressure, 22 percent; and diabetes, 4 percent.

Measurement processes employed in both surveys for heights and weights were similar, highly standardized, and closely controlled. Two pounds were deducted from HES data to allow for weight of clothing. Total weights of all clothing for HANES ranged from 0.20 to 0.62 pound, which was not deducted from weight. In both surveys, height was measured without shoes.

## SUMMARY

Findings on height and weight among adults in the civilian noninstitutionalized population of the United States obtained in the Health and Nutrition Examination Survey of 1971-74 are presented and analyzed in this report. Major findings are as follows:

- Men average 172 pounds in weight, with
about 90 percent falling between 128 and 225 pounds. Weight decreases with age from the maximum average of 178 pounds for those $35-44$ years of age to 164 pounds at 65-74 years. - For white men, the average weight is 173 pounds, with about 90 percent falling between 129 and 224 pounds. Their maximum and minimum average weight is similar to that of all men within the same age group.
- The average weight of black men decreases with age from the maximum average of 182 pounds for those $35-44$ years of age to 161 pounds at $65-74$ years. The overall average weight is 171 pounds, with about 90 percent falling between 125 and 239 pounds.
- Women average 143 pounds, with about 90 percent falling between 104 and 203 pounds. Their maximum average weight is 149 pounds in the 45-64 year age group.
- White women average 142 pounds, with about 90 percent falling between 104 and 199 pounds. Their maximum average weight is 147 pounds for those 45-64 years of age, an increase of 15 pounds from 132 pounds at $18-24$ years. - About 90 percent of black women fall between 104 and 228 pounds, with an average of 156 pounds. The maximum average weight is 169 pounds for those $45-54$ years of age, and
the minimum average weight is 138 pounds a 18-24 years.
- Men average 69.0 inches in height, with some 90 percent between 64.4 and 73.6 inches Their average height decreases with age from a maximum of 69.7 inches to to 67.3 inches.
- The average height for white men is similar to that of all men, 69.1 inches, with about 9 ( percent falling between 64.6 and 73.6 inche: The average height of white men ranges from : maximum of 69.8 inches at ages $18-24$ years to 67.3 inches in the oldest age group.
- Black men average 68.6 inches, with about 90 percent between 64.1 inches and 73.3 inches. Average height decreases with age from a maximum of 69.5 inches to 67.3 inches.
- Women average 63.6 inches in height. However, there is a general decline in stature with age, beginning with 64.3 inches at $18-24$ years and falling to 62.3 inches at 65-74 years. About 90 percent of all adult women are between 59.5 and 67.8 inches in height.
- For white women, the average height is 63.7 inches, with some 90 percent between 59.5 and 67.8 inches. The maximum average height is 64.3 inches at ages $18-24$ years and declines to 62.3 inches at ages $65-74$ years.
- For black women, the average height is 63.7 inches, with some 90 percent between 59.6 and 67.8 inches. The maximum average height of 64.2 inches at ages $35-44$ years declines to 62.6 inches at ages 65-74 years.
- For the age range $18-74$ years, about 50 percent of men are 69.0 inches or taller and 45 percent of women are 64.0 inches or taller in HANES as compared with 38 percent of men and 37 percent of women in HES.
- For the age range $18-74$ years, about 49 percent of the men are 170 pounds or more and 45 percent of the women are 140 pounds or more in HANES as compared with 45 percent of men and 45 percent of women in HES.
- At ages 18 through 44 years, there is a greater percent of women weighing 170 pounds or more in HANES than in HES; relatively more women, particularly black women, are heavy, possible obese, than was the case about 10 years ago.
- The maximum average weight of women in HES, 150 pounds, is in the $55-64$ year age group, or about 20 years later than that for men. The maximum weight for women in HANES occurs in 45-64 years, or about 10 years later than that for men.


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Table 1. Estimated number of men aged 18-74 years, by age and weight: United States, 1971-74

| Weight in pounds | Age of men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $\begin{aligned} & 1.8-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $55-64$ years | $65-74$ years |
| All weights----------- | Estimated number in thousands |  |  |  |  |  |  |
|  | 61,091 | 11,753 | 13,002 | 10,692 | 11,150 | 8,998 | 5,496 |
| Less than 100--- | 86 | - | - | 4 | 9 | 53 | 20 |
| 100-109 | 401 | 63 | 39 | 20 | 85 | 118 | 76 |
| 110-119 | 821 | 208 | 107 | 89 | 107 | 168 | 142 |
| 120-129- | 2,359 | 686 | 375 | 356 | 368 | 254 | 320 |
| 130-139 | 3,888 | 1,115 | 740 | 493 | 574 | 543 | 423 |
| 140-149 | 6,203 | 1,795 | 1,328 | 694 | 893 | 877 | 616. |
| 150-159 | 8,492 | 1,959 | 2,101 | 1,082 | 1,292 | 1,125 | 933 |
| 160-169 | 8,762 | 1,818 | 1,518 | 1,648 | 1,662 | 1,297 | 819 |
| 170-179 | 8,349 | 1,198 | 1,676 | 1,473 | 1,564 | 1,662 | 776 |
| 180-189 | 6,902 | 883 | 1,448 | 1,507 | 1,491 | 1,044 | 529 |
| 190-199 | 5,141 | 706 | 1,218 | 1,224 | 1,140 | 513 | 340 |
| 200-209 | 3,339 | 357 | 740 | 962 | 564 | 515 | 201 |
| 210-219 | 2,329 | 333 | 547 | 319 | 622 | 322 | 186 |
| 220-229. | 1,636 | 268 | 445 | 355 | 364 | 166 | 38 |
| 230-239- | 879 | 173 | 217 | 122 | 197 | 139 | 31 |
| 240-249- | 439 | 75 | 99 | 81 | 75 | 93 | 16 |
| 250 or mor | 1,067 | 118 | 404 | 262 | 143 | 108 | 32 |

Table 2. Estimated number of women aged 18-74 years, by age and weight: United States, 1971-74

| Weight in pounds | Age of women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | 18-24 | $25-34$ years | 35-44 years | 45-54 years | 55-64 years | $65-74$ years |
|  | Estimated number in thousands |  |  |  |  |  |  |
| A11 weights | 67,925 | 12,924 | 13,933 | 11,576 | 12,163 | 10,052 | 7,277 |
| Less than 90-- | 554 | 128 | 69 | 26 | 71 | 180 | 80 |
| 90-99------ | 1,585 | 546 | 380 | 162 | 105 | 205 | 187 |
| 100-109 | 4,516 | 1,317 | 1,200 | 527 | 548 | 573 | 351 |
| 110-119 | 8,722 | 2,559 | 2,147 | 1,314 | 1,240 | 770 | 692 |
| 120-129 | 10,733 | 2,391 | 2,669 | 1,966 | 1,707 | 1,086 | 914 |
| 130-139 | 11,364 | 2,428 | 2,298 | 2,011 | 1,816 | 1,719 | 1,092 |
| 140-149 | 8,084 | 1,282 | 1,450 | 1,390 | 1,601 | 1,221 | 1,140 |
| 150-159 | 6,021 | 672 | 970 | 1,109 | 1,349 | 1,136 | 785 |
| 160-169 | 4,994 | 589 | 634 | 750 | 1,285 | 1,045 | 691 |
| 170-179 | 3,404 | 348 | 657 | 576 | 653 | 643 | 527 |
| 180-189 | 2,301 | 177 | 439 | 428 | 488 | 462 | 307 |
| 190-199 | 1,857 | 186 | 238 | 349 | 490 | 372 | 222 |
| 200-209 | 1,022 | 46 | 223 | 248 | 144 | 253 | 108 |
| 210-219 | 929 | 73 | 121 | 249 | 298 | 119 | 69 |
| 220-229 | 535 | 22 | 165 | 104 | 80 | 130 | 34 |
| 230-239 | 399 | 69 | 72 | 111 | 93 | 19 | 35 |
| 240-249 | 244 | 13 | 50 | 71 | 90 | 7 | 13 |
| 250-259 | 109 | 13 | 49 | 13 | 23 | - | 11 |
| 260-269 | 130 | 18 | 27 | 25 | 12 | 44 | 4 |
| 270-279 | 122 | 10 | 24 | 39 | 43 | 4 | 2 |
| 280 or mo | 301 | 37 | 51 | 109 | 25 | 64 | 15 |

Table 3. Percent distribution of adults aged 18-74 years by sex and weight, according to age: United States, 1971-74

| Sex and weight in pounds | Age of adults |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | 18-24 years | $\begin{aligned} & 25-34 \\ & \text { years } \end{aligned}$ | $35-44$ <br> years | $45-54$ years | 55-64 years | 65-74 years |
| Men | Percent distribution |  |  |  |  |  |  |
| All weights | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 100 | 0.14 | - | - | 0.0 | 0.0 | 0.60 | 0.36 |
| 100-109----- | 0.66 | 0.54 | 0.31 | 0.20 | 0.76 | 1.31 | 1.39 |
| 110-119 | 1.35 | 1.76 | 0.91 | 0.75 | 0.96 | 1.86 | 2.59 |
| 120-129 | 3.84 | 5.75 | 2.92 | 3.34 | 3.30 | 2.83 | 5.83 |
| 130-139 | 6.30 | 9.36 | 5.76 | 4.39 | 5.18 | 6.03 | 7.68 |
| 140-149 | 10.13 | 15.45 | 10.24 | 6.40 | 8.03 | 9.72 | 11.21 |
| 150-159 | 13.85 | 16.41 | 16.21 | 10.29 | 11.59 | 12.48 | 16.98 |
| 160-169 | 14.37 | 15.46 | 11.67 | 15.54 | 14.89 | 14.42 | 14.90 |
| 170-179 | 13.68 | 10.21 | 12.81 | 13.82 | 14.02 | 18.49 | 14.11 |
| 180-189 | 11.37 | 7.67 | 11.00 | 14.32 | 13.36 | 11.62 | 9.63 |
| 190-199 | 8.42 | 7.00 | 9.36 | 11.34 | 10.21 | 5.72 | 6.17 |
| 200-209 | 5.50 | 3.12 | 5.63 | 9.05 | 5.06 | 5.71 | 3.66 |
| 210-219 | 3.81 | 2.85 | 4.22 | 2.92 | 5.57 | 3.60 | 3.38 |
| 220-229 | 2.69 | 2.29 | 3.38 | 3.40 | 3.26 | 1.85 | 0.68 |
| 230-239 | 1.43 | 1.44 | 1.71 | 1.06 | 1.77 | 1.54 | 0.57 |
| 240-249 | 0.72 | 0.64 | 0.75 | 0.77 | 0.68 | 1.03 | 0.28 |
| 250 or more | 1.74 | 1.05 | 3.12 | 2.38 | 1.28 | 1.19 | 0.58 |
| Women |  |  |  |  |  |  |  |
| All weights | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 90 | 0.80 | 0.99 | 0.49 | 0.22 | 0.59 | 1.77 | 1.10 |
| 90-99 | 2.32 | 4.28 | 2.72 | 1.40 | 0.87 | 2.04 | 2.57 |
| 100-109 | 6.60 | 10.18 | 8.62 | 4.55 | 4.51 | 5.69 | 4.82 |
| 110-119 | 12.77 | 19.74 | 15.50 | 11.34 | 10.27 | 7.59 | 9.51 |
| 120-129 | 15.75 | 18.30 | 19.24 | 16.96 | 14.06 | 10.72 | 12.54 |
| 130-139 | 16.68 | 18.70 | 16.44 | 17.37 | 14.98 | 17.08 | 15.01 |
| 140-149 | 11.95 | 9.99 | 10.42 | 12.00 | 13.23 | 12.13 | 15.66 |
| 150-159 | 8.93 | 5.33 | 6.93 | 9.59 | 11.11 | 11.32 | 10.79 |
| 160-169 | 7.37 | 4.58 | 4.54 | 6.49 | 10.52 | 10.38 | 9.49 |
| 170-179 | 5.01 | 2.66 | 4.68 | 4.98 | 5.30 | 6.36 | 7.25 |
| 180-189 | 3.42 | 1.38 | 3.12 | 3.70 | 4.01 | 4.65 | 4.21 |
| 190-19 | 2.76 | 1.48 | 1.70 | 3.01 | 4.01 | 3.76 | 3.05 |
| 200-209 | 1.52 | 0.38 | 1.60 | 2.14 | 1.17 | 2.54 | 1.49 |
| 210-219 | 1.39 | 0.57 | 0.87 | 2.15 | 2.42 | 1.24 | 0.96 |
| 220-229 | 0.79 | 0.17 | 1.17 | 0.90 | 0.66 | 1.30 | 0.46 |
| 230-239 | 0.59 | 0.56 | 0.52 | 0.96 | 0.76 | 0.19 | 0.48 |
| 240-249 | 0.36 | 0.10 | 0.36 | 0.62 | 0.71 | 0.07 | 0.18 |
| 250-259 | 0.17 | 0.10 | 0.35 | 0.12 | 0.20 | - | 0.15 |
| 260-269 | 0.19 | 0.15 | 0.19 | 0.22 | 0.10 | 0.43 | 0.0 |
| 270-279 | 0.17 | 0.07 | 0.17 | 0.34 | 0.32 | 0.0 | 0.0 |
| 280 or more---------------- | 0.46 | 0.29 | 0.37 | 0.94 | 0.20 | 0.70 | 0.20 |

NOTE: Percents may not add to 100.00 due to rounding.

Table 4. Weight in pounds of adults aged $18-74$ years, by sex and age: sample size, estimated population in thousands, mean, standard deviation, standard error of the mean, and selected percentiles: United States, 1971-74

| Sex and age | $\begin{gathered} \text { Sample } \\ \begin{array}{c} \text { size } \end{array} \end{gathered}$ | Estimated population in thousands | Mean | Standard deviation | Standard error of the mean | Percentiles |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 5th | 10th | 25th | 50th | 75th | 90th | 95th |
| Men |  |  | Weight in pounds |  |  |  |  |  |  |  |  |  |
| 18-74 years--- | 5,260 | 61,091 | 172 | 31.1 | 0.64 | 128 | 137 | 152 | 170 | 189 | 211 | 225 |
| 18-24 years--------- | 772 | 11,753 | 165 | 29.6 | 1.64 | 124 | 132 | 145 | 161 | 180 | 204 | 222 |
| 25-34 years--------- | 804 | 13,002 | 176 | 35.0 | 1.45 | 132 | 140 | 153 | 172 | 193 | 217 | 233 |
| 45-54 years--..--..-- | 765 | 11,150 | 175 | 29.2 | 1.12 | 130 | 139 | 157 | 175 | 192 | 215 | 225 |
| 55-64 years-------- | 597 | 8,998 | 171 | 30.0 | 1.28 | 125 | 137 | 152 | 170 | 187 | 208 | 222 |
| 65-74 years--------- | 1,657 | 5,496 | 164 | 27.0 | 0.88 | 122 | 130 | 147 | 163 | 180 | 198 | 211 |
| Women |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years--- | 8,411 | 67,925 | 143 | 32.3 | 0.53 | 104 | 110 | 122 | 137 | 159 | 185 | 203 |
| 18-24 years--------- | 1,524 | 12,924 | 132 | 27.4 | 0.69 | 100 | 106 | 114 | 128 | 142 | 163 | 181 |
| 25-34 years--------- | 1,896 | 13, 933 | 140 | 32.0 | 0.82 | 103 | 109 | 119 | 132 | 152 | 181 | 202 |
| 35-44 years--------- | 1,663 | 11,576 | 148 | 35.0 | 1.14 | 109 | 114 | 124 | 139 | 163 | 195 | 215 |
|  | 836 670 | 12,163 10,052 | 149 | 32.0 33 3 | 1.39 1.26 | 109 | 114 | 127 | 145 | 164 | 191 | 213 |
| 65-74 years--.------ | 1,822 | 7,277 | 146 | 29.1 | 1.07 | 105 | 112 | 126 | 142 | 163 | 183 | 195 |

NOTE: Total weights of all clothing ranged from 0.20 to 0.62 lb ., which is not deducted from weights shown in table.

Table 5. Estimated number of white men aged $18-74$ years, by age and weight: United States, 1971-74

| Weight in pounds | Age of white men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages 18-74 years | $18-24$ years | $25-34$ years | $35-44$ years | $45-54$ years | 55-64 years | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
|  | Estimated number in thousands |  |  |  |  |  |  |
| All weights | 54,606 | 10,271 | 11,594 | 9,532 | 10,039 | 8,200 | 4,970 |
| Less than 100- | 81 | - | - | - | 9 | 53 | 19 |
| 100-109- | 369 | 60 | 24 | 20 | 82 | 114 | 69 |
| 110-119 | 585 | 166 | 28 | 40 | 93 | 134 | 124 |
| 120-129 | 1,983 | 501 | 299 | 324 | 351 | 244 | 264 |
| 130-139 | 3,115 | 957 | 602 | 333 | 385 | 489 | 349 |
| 140-149 | 5,265 | 1,523 | 1,159 | 569 | 744 | 723 | 547 |
| 150-159 | 7,598 | 1,745 | 1,837 | 1,033 | 1,168 | 957 | 858 |
| 160-169 | 7,953 | 1,623 | 1,356 | 1,538 | 1,446 | 1,227 | 763 |
| 170-179 | 7,720 | 1,039 | 1,562 | 1,347 | 1,469 | 1,572 | 731 |
| 180-189 | 6,572 | 802 | 1,400 | 1,455 | 1,428 | 989 | 498 |
| 190-199 | 4,692 | 676 | 1,091 | 1,035 | 1,087 | 497 | 306 |
| 200-209 | 3,074 | 318 | 712 | 883 | 515 | 465 | 181 |
| 210-219 | 2,108 | 298 | 479 | 254 | 593 | 322 | 162 |
| 220-229 | 1,557 | 261 | 431 | 355 | 311 | 166 | 33 |
| 230-239 | 712 | 173 | 163 | 66 | 176 | 111 | 23 |
| 240-249- | 398 | 75 | 99 | 81 | 68 | 59 | 16 |
| 250 or more-------m- | 824 | 55 | 350 | 198 | 115 | 78 | 28 |

Table 6. Estimated number of black men aged $18-74$ years, by age and weight: United States, 1971-74

| Weight in pounds | Age of black men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | 25-34 years | $35-44$ years | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | 65-74 years |
|  | Estimated number in thousands |  |  |  |  |  |  |
| A11 weights-- | 5,753 | 1,270 | 1,232 | 1,005 | 1,057 | 703 | 486 |
| Less than 100-- | 1 | - | - | - | - | - | 1 |
| 100-109- | 12 | 3 | - | - | 3 | 4 | 2 |
| 110-119- | 166 | 34 | 47 | 18 | 14 | 34 | 19 |
| 120-129 | 211 | 75 | 35 | 32 | 15 | 10 | 44 |
| 130-139 | 642 | 125 | 115 | 98 | 189 | 44 | 71 |
| 140-149 | 853 | 244 | 169 | 99 | 132 | 149 | 60 |
| 150-159 | 738 | 187 | 212 | 50 | 117 | 97 | 75 |
| 160-169 | 795 | 192 | 155 | 106 | 216 | 70 | 56 |
| 170-179 | 579 | 156 | 114 | 97 | 80 | 90 | 42 |
| 180-189 | 323 | 81 | 48 | 53 | 63 | 49 | 29 |
| 190-199 | 449 | 30 | 127 | 189 | 53 | 16 | 34 |
| 200-209- | 258 | 39 | 28 | 79 | 50 | 47 | 15 |
| 210-219 | 204 | 35 | 64 | 64 | 18 | - | 23 |
| 220-229- | 75 | 7 | 10 | - | 53 | - | 5 |
| 230-239 | 165 | - | 54 | 56 | 21 | 28 | 6 |
| 240-249- | 41 | - | - | - | 7 | 34 | - |
| 250 or more | 243 | 63 | 54 | 65 | 27 | 30 | 4 |

Table 7. Estimated number of white women aged 18-74 years, by age and weight: United States, 1971-74

| Weight in pounds | Age of white women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | 25-34 years | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | 45-54 years | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | 65-74 years |
|  | Estimated number in thousands |  |  |  |  |  |  |
| All weights----------- | 60,011 | 11,161 | 12,161 | 10,095 | 10,879 | 9,112 | 6,603 |
| Less than 90----------------- | 496 | 101 | 46 | 22 | 71 | 180 | 76 |
| 90-99- | 1,345 | 462 | 315 | 141 | 97 | 186 | 144 |
|  | 3,968 | 1,124 | 1,072 | 457 | 504 | 511 | 300 |
| 110-119 | 8,053 | 2,233 | 2,019 | 1,202 | 1,194 | 748 | 657 |
| 120-129- | 9,937 | 2,090 | 2,489 | 1,904 | 1,559 | 1,023 | 872 |
| 130-139 | 10,138 | 2,190 | 1,903 | 1,757 | 1,676 | 1,590 | 1,022 |
| 140-149 | 7,332 | 1,112 | 1,289 | 1,243 | 1,508 | 1,125 | 1,055 |
| 150-159 | 5,274 | 573 | 809 | 928 | 1,232 | 1,021 | 711 |
| 160-169 | 4,324 | 503 | 524 | 631 | 1,090 | 959 | 617 |
| 170-179 | 2,859 | 296 | 525 | 439 | 506 | 614 | 479 |
| 180-189 | 1,875 | 134 | 322 | 342 | 438 | 374 | 265 |
| 190-199 | 1,531 | 124 | 204 | 308 | 408 | 300 | 187 |
| 200-209---------------------- | 804 | 25 | 193 | 160 | 120 | 213 | 93 |
| 210-219- | 685 | 61 | 106 | 193 | 227 | 69 | 29 |
| 220-229----------------------- | 437 | 22 | 118 | 81 | 76 | 110 | 30 |
| 230-239- | 317 | 38 | 67 | 85 | 76 | 19 | 32 |
| 240-249 | 179 | 10 | 41 | 59 | 49 | 7 | 13 |
| 250-259----------------------- | 97 | 13 | 49 | 8 | 23 | - | 4 |
| 260-269----------------------- | 66 | 9 | - | 3 | 8 | 44 | 2 |
|  | 76 | 9 | 23 | 30 | 8 | 4 | 2 |
| 280 or more-------------------- | 221 | 32 | 46 | 102 | 11 | 17 | 13 |

Table 8. Estimated number of black women aged $18-74$ years, by age and weight: United States, 1971-74

| Weight in pounds | Age of black women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | 25-34 | 35-44 | 45-54 years | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
|  | Estimated number in thousands |  |  |  |  |  |  |
| A11 weights-- | 7,302 | 1,578 | 1,646 | 1,318 | 1,237 | 871 | 652 |
| Less than 90---------- | 54 | 27 | 23 | - | - | - | 4 |
| 90-99- | 186 | 53 | 65 | 10 | - | 19 | 39 |
| 100-109 | 427 | 150 | 109 | 37 | 33 | 62 | 36 |
| 110-119- | 581 | 305 | 95 | 81 | 45 | 22 | 33 |
| 120-129- | 687 | 265 | 161 | 49 | 127 | 44 | 41 |
| 130-139- | 1,100 | 226 | 356 | 207 | 137 | 104 | 70 |
| 140-149- | - 735 | 162 | 154 | 144 | 93 | 96 | 86 |
| 150-159 | 712 | 88 | 160 | 162 | 114 | 116 | 72 |
| 160-169- | 629 | 77 | 110 | 114 | 195 | 61 | 72 |
| 170-179- | 540 | 47 | 132 | 137 | 147 | 29 | 48 |
| 180-189 | 425 | 43 | 118 | 86 | 50 | 87 | 41 |
| 190-199 | 308 | 54 | 24 | 41 | 82 | 72 | 35 |
| 200-209- | 216 | 21 | 30 | 87 | 24 | 40 | 14 |
| 210-219-- | 244 | 11 | 15 | 56 | 71 | 51 | 40 |
| 220-229 | 99 | - | 48 | 23 | 4 | 20 | 4 |
| 230-239- | 83 | 31 | 5 | 26 | 18 | - | 3 |
| 240-249-- | 66 | 3 | 9 | 12 | 42 | - | - |
| 250-259 | 13 | - | - | 6 | - | - | 7 |
| 260-269 | 65 | 8 | 27 | 23 | 5 | - | 2 |
| 270-279--- | 47 | 1 | 1 | 10 | 35 | - | - |
| 280 or more-- | 82 | 4 | 6 | 7 | 15 | 48 | 2 |

Table 9. Percent distribution of white adults aged 18-74 years by sex and weight, according to age: United States, 1971-74

| Sex and weight in pounds | Age of white adults |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A11 } \\ & \text { ages } \\ & 18-74 \\ & \text { years } \end{aligned}$ | $18-24$ years | $25-34$ years | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | 55-64 years | 65-74 years |
| Men | Percent distribution |  |  |  |  |  |  |
| All weights----m------ | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 100----------.---- | 0.15 | - | - | 0.21 | 0.09 | 0.65 | 0.37 |
| 100-109------------------------ | 0.68 | 0.59 | 0.21 |  | 0.81 | 1.39 | 1.39 |
|  | 1.06 | 1.62 | 0.24 | 0.42 | 0.93 | 1.63 | 2.49 |
|  | 3.61 | 4.76 | 2.58 | 3.40 | 3.49 | 2.97 | 5.31 |
| 130-139 | 5.64 | $\dot{9} .17$ | 5.20 | 3.50 | 3.84 | 5.97 | 7.03 |
| 140-149 | 9.61 | 15.04 | 9.99 | 5.98 | 7.41 | 8.81 | 11.02 |
|  | 13.81 | 16.71 | 15.85 | 10.84 | 11.64 | 11.67 | 17.26 |
| 160-169 | 14.59 | 15.80 | 11.70 | 16.13 | 14.40 | 14.96 | 15.35 |
|  | 14.15 | 10.09 | 13.47 | 14.11 | 14.63 | 19.17 | 14.71 |
| 180-189 | 12.12 | 7.98 | 12.07 | 15.26 | 14.23 | 12.07 | 10.01 |
| 190-199 | 8.63 | 6.62 | 9.41 | 10.86 | 10.82 | 6.06 | 6.15 |
| 200-209---------------.---.-- | 5.68 | 3.18 | 6.14 | 9.27 | 5.13 | 5.66 | 3.643.27 |
| 210-219 | 3.87 | 2.92 | 4.13 | 2.67 | 5.90 | 3.93 |  |
| 220-229 | 2.86 | 2.56 | 3.73 | 3.73 | 3.10 | 2.03 | 3.27 0.66 |
| 230-239 | 1.30 | 1.66 | 1.41 | 0.70 | 1.75 | 1.36 | 0.66 0.47 |
| 240-249 | 0.73 | 0.74 | 0.85 | 0.84 | 0.68 | 0.72 | 0.320.55 |
| 250 or more | 1.51 | 0.56 | 3.02 | 2.08 | 1.15 | 0.95 |  |
| Women |  |  |  |  |  |  |  |
| A11 weights----------- | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 90--.---.-- | 0.81 | 0.89 | 0.38 | 0.22 | 0.65 | 1.97 | 1.15 |
| 90-99-------------------------1 | 2.22 | 4.18 | 2.59 | 1.39 | $\begin{aligned} & 0.89 \\ & 4.63 \end{aligned}$ | $\begin{aligned} & 2.04 \\ & 5.60 \end{aligned}$ | 2.18 |
| 100-109--------------------- | 6.56 | 10.06 | 8.82 | 4.53 |  |  | 4.55 |
| 110-119 | 13.34 | 20.01 | 16.60 | 11.90 | $\begin{array}{r} 4.63 \\ 10.98 \end{array}$ | 5.60 8.21 | 9.95 |
| 120-129--------------------- | 16.52 | 18.52 | 20.47 | 18.87 | 14.33 | 11.23 | 13.21 |
| 130-139 | 16.84 | 19.61 | 15.65 | 17.40 | 15.41 | 17.46 | 15.48 |
| 140-149 | 12.27 | 10.104 | 10.60 | 12.32 | 13.86 | 12.35 | 15.96 |
|  | 8.85 | 5.26 | 6.66 | 9.19 | 11.32 | 11.20 | 10.77 |
|  | 7.24 | 4.51 | 4.30 | 6.25 | 10.03 | 10.52 | 9.34 |
|  | 4.77 | 2.60 | 4.32 | $\begin{aligned} & 4.35 \\ & 3.39 \end{aligned}$ | $\begin{aligned} & 4.65 \\ & 4.02 \end{aligned}$ | 6.74 | $\begin{aligned} & 7.26 \\ & 4.02 \end{aligned}$ |
| 180-189---------------------- | 3.15 | 1.18 | 2.65 |  |  | 4.11 |  |
| 190-199 | 2.57 | 1.12 | 1.67 | 3.39 3.04 | 4.02 3.75 | 3.28 | 4.82 2.83 |
|  | 1.36 | 0.24 | 1.59 | 1.59 | 1.10 | 2.34 | 1.410.44 |
| 210-219 | 1.16 | 0.55 | 0.88 | 1.92 | 2.09 | 0.75 |  |
| 220-229 | 0.73 | 0.20 | 0.97 | 0.80 | 0.70 | 1.21 | 0.45 |
| 230-239 | 0.54 | 0.35 | 0.55 | 0.84 | 0.69 | 0.20 | 0.49 |
|  | 0.30 | 0.10 | 0.33 | 0.59 | 0.45 | 0.08 | 0.19 |
| 250-259 | 0.16 | 0.12 | 0.41 | 0.08 | 0.21 | - | 0.07 |
| 260-269 | 0.11 | 0.09 | - | 0.0 | 0.07 | 0.48 | 0.0 |
| 270-279 | 0.13 | 0.07 | 0.18 | 0.30 | 0.07 | 0.0 | 0.0 |
| 280 or more------------------ | $0.37$ | $0.30$ | $0.38$ | $1.01$ | $0.10$ | $0.18$ | $0.20$ |

NOTE: Percents may not add to 100.00 due to rounding.
ble 10. Percent distribution of black adults aged 18-74 years by sex and weight, according to age: United States, 1971-74

| Sex and weight in pounds | Age of black adults |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A11 } \\ & \text { ages } \\ & 18-74 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 18-24 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 25-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $45-54$ years | $55-64$ years | 65-74 years |
| Men | Percent distribution |  |  |  |  |  |  |
| All weights----------- | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
|  | 0.0 | - | - | - | - | - | 0.19 |
| 100-109 | 0.21 | 0.21 | - | - | 0.30 | 0.62 | 0.49 |
| 110-119 | 2.91 | 2.55 | 3.83 | 1.76 | 1.37 | 4.87 | 3.90 |
| 120-129 | 3.60 | 5.67 | 2.77 | 3.16 | 1.41 | 1.49 | 9.05 |
| 130-139 | 11.21 | 9.80 | 9.35 | 9.74 | 17.95 | 6.19 | 14.50 |
| 140-149 | 14.86 | 18.97 | 13.75 | 9.76 | 12.48 | 21.18 | 12.31 |
| 150-159 | 13.19 | 14.59 | 17.15 | 5.30 | 11.06 | 13.78 | 15.51 |
| 160-169 | 13.96 | 15.30 | 12.59 | 10.53 | 20.29 | 9.96 | 11.52 |
| 170-179 | 10.11 | 12.58 | 9.23 | 9.62 | 7.56 | 12.77 | 8.73 |
| 180-189 | 5.60 | 6.57 | 3.88 | 5.20 | 5.96 | 7.03 | 5.87 |
| 190-199 | 7.49 | 2.27 | 10.33 | 18.74 | 5.02 | 2.29 | 6.93 |
| 200-209 | 4.32 | 3.12 | 2.30 | 7.85 | 4.70 | 6.73 | 3.12 |
| 210-219 | 3.52 | 2.83 | 5.22 | 6.36 | 1.66 | - | 4.78 |
| 220-229 | 1.37 | 0.57 | 0.85 | 0.0 | 5.00 | - | 1.02 |
| 230-239 | 2.79 | - | 4.36 | 5.57 | 1.95 | 3.99 | 1.23 |
| 240-249 | 0.71 | - | - | - | 0.70 | 4.90 | - |
| 250 or more | 4.14 | 4.97 | 4.39 | 6.41 | 2.59 | 4.20 | 0.85 |
| Women |  |  |  |  |  |  |  |
| All weights | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 90------------------ | 0.74 | 1.75 | 1.38 | 0.76 | - | - ${ }^{-}$ | 0.63 |
| 90-99- | 2.58 | 3.46 | 3.93 | 0.76 | - | 2.24 | 5.96 |
| 100-109 | 5.83 | 9.23 | 6.60 | 2.83 | 2.67 | 6.98 | 5.56 |
| 110-119 | 8.00 | 19.04 | 5.88 | 6.17 | 3.67 | 2.52 | 5.11 |
| 120-129 | 9.31 | 16.74 | 9.80 | 3.74 | 10.31 | 4.80 | 6.11 |
| 130-139 | 15.02 | 14.41 | 21.63 | 15.72 | 11.10 | 12.04 | 10.67 |
| 140-149 | 10.16 | 10.40 | 9.31 | 10.96 | 7.51 | 11.03 | 13.23 |
| 150-159 | 9.83 | 5.67 | 9.71 | 12.30 | 9.19 | 13.34 | 11.20 |
| 160-169 | 8.51 | 4.94 | 6.70 | 8.63 | 15.72 | 7.06 | 11.07 |
| 170-179 | 7.28 | 3.06 | 8.00 | 10.39 | 11.91 | 3.33 | 7.37 |
| 180-189 | 5.91 | 2.82 | 7.13 | 6.54 | 4.07 | 10.08 | 6.34 |
| 190-199 | 4.27 | 3.44 | 1.43 | 3.10 | 6.75 | 8.32 | 5.37 |
| 200-209 | 3.04 | 1.35 | 1.79 | 6.62 | 1.95 | 4.62 | 2.28 |
| 210-219 | 3.37 | 0.73 | 0.89 | 4.21 | 5.72 | 5.83 | 6.22 |
| 220-229 | 1.34 | 0.0 | 2.88 | 1.73 | 0.30 | 2.32 | 0.61 |
| 230-239 | 1.12 | 1.92 | 0.29 | 1.97 | 1.42 | - | 0.44 |
|  | 0.86 | 0.17 | 0.57 | 0.94 | 3.40 | - | - |
| 250-259 | 0.17 | - | - | 0.42 | - | - | 1.06 |
| 260-269 | 0.87 | 0.50 | 1.66 | 1.72 | 0.37 | - | 0.30 |
| 270-279----------------------- | 0.62 | 0.09 | 0.07 | 0.73 | 2.85 | - | - |
| 280 or more-------------------- | 1.17 | 0.28 | 0.35 | 0.52 | 1.19 | 5.49 | 0.27 |

NOTE: Percents may not add to 100.00 due to rounding.

Table ll. Weight in pounds of adults aged $18-74$ years, by sex, race, and age: sample size, estimated population in thousands, mean, standard deviation, standard error of the mean, and selected percentiles: United States, 1971-74

| Sex, race, and age | $\begin{gathered} \text { Sample } \\ \text { size } \end{gathered}$ | Estimated population in thousands | Mean | Stiandard deviation | Standard error of the mean | Percentile |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 5th | 10th | 25th | 50th | 75th | 90th | 95th |
| MEN |  |  | Weight in pounds |  |  |  |  |  |  |  |  |  |
| 18-74 years--------0.- | 4,343 | 54,606 | 173 | 30 | 0.75 | 129 | 138 | 153 | 171 | 190 | 211 | 224 |
| $18-24$25-34 year$35-44$ year$45-54$$55-64$year$65-74$year | $\begin{array}{r} 625 \\ 672 \\ 570 \\ 628 \\ 504 \\ 1,344 \end{array}$ | 10,271 | 165 | 28 | 1.89 | 125 | 133 | 146 | 162 | 182 | 205 | 222 |
|  |  | 11,594 | 177 | 32 | 1.40 | 134 | 142 | 155 | 173 | 194 | 217 |  |
|  |  | 9,532 | 178 | 29 | 1.66 | 133 | 145 | 160 | 177 | 195 | 211 | 224 |
|  |  | 10,039 | 176 | 29 | 1.23 | 129 | 141 | 158 | 176 | 193 | 214 | 225 |
|  |  | 8,200 | 171 | 29 | 1.49 | 125 | 136 | 153 | 171 | 187 | 208 | 220 |
|  |  | 4,970 | 164 | 27 | 0.99 | 123 | 131 | 148 | 164 | 180 | 198 | 210 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years~--m------- | 847 | 5,753 | 171 | 40 | 2.54 | 125 | 134 | 145 | 163 | 189 | 217 | 239 |
|  | 132 | 1,270 | 166 | 37 | 4.04 | 123 | 131 | 142 | 159 | 176 | 202 | 227 |
| 25-34 years---m-m------m----- | 119 | 1,232 | 175 | 51 | 8.17 | 124 | 134 | 148 | 162 | 193 | 219 |  |
| 35-44 years | 87 | 1,005 | 182 | 37 | 4.59 | 130 | 137 | 151 | 180 | 201 | 236 | 255 |
|  | 130 | 1,057 | 168 | 32 | 3.75 | 135 | 136 | 145 | 162 | 185 | 220 | 230 |
|  | 85 | 703 | 172 | 41 | 6.34 | 119 | 138 | 145 | 163 | 186 | 237 | 249 |
|  | 294 | 486 | 161 | 30 | 2.31 | 121 | 127 | 137 | 156 | 179 | 205 | 218 |
| WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| White |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years- | 6,758 | 60,011 | 142 | 31 | 0.59 | 104 | 110 | 121 | 136 | 157 | 182 | 199 |
| 18-24 years---w----n-w--m-n... | 1,165 | 11,161 | 132 | 26 | 0.82 | 100 | 106 | 115 | 128 | 142 | 162 | 177 |
|  | 1,539 | 12,161 | 138 | 31 | 1.02 | 104 | 109 | 118 | 131 | 150 | 179 | 201 |
| 35-44 years------------------- | 1,301 | 10,095 | 146 | 34 | 1.29 | 109 | 114 | 124 | 137 | 159 | 191 | 213 |
| 45-54 years-m--------------- |  | 10,879 | 147 | 30 | 1.32 | 109 | 113 | 126 | 143 | 162 | 188 | 204 |
|  | 705 552 | 9,112 | 147 | 30 | 1.35 | 103 | 111 | 127 | 143 | 164 | 187 | 201 |
|  | 1,496 | 6,603 | 145 | 28 | 1.08 | 105 | 113 | 126 | 142 | 162 | 180 | 192 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years----------- | 1,557 | 7,302 | 156 | 41 | 1.53 | 104 | 111 | 129 | 148 | 176 | 207 | 228 |
|  | 329 | 1,578 | 138 | 34 | 2.47 | 100 | 107 | 114 | 130 | 150 | 184 | 203 |
| 25-34 years-------m-----n-m- | 335 | 1,646 | 149 | 37 | 3.20 | 100 | 108 | 127 | 141 | 170 | 190 | 226 |
|  | 334 | 1,318 | 165 | 39 | 2.68 | 112 | 121 | 136 | 158 | 185 | 216 | 238 |
|  | 126 | 1,237 | 169 | 42 | 4.53 | 115 | 128 | 139 | 162 | 186 | 215 | 244 |
| 55-64 years | 115 | 871 | 168 | 48 | 6.37 | 104 | 118 | 139 | 156 | 191 | 215 | 297 |
|  | 318 | 652 | 155 | 36 | 3.28 | 94 | 109 | 133 | 153 | 177 | 202 | 219 |

NOTE: Total weights of all clothing ranged from 0.20 to 0.62 lb ., which is not deducted from weights shown in tables.

Table 12. Estimated number of men aged $18-74$ years, by age and height: United States, 1971-74

| Height in inches | Age of men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 <br> ages 18-74 years | $18-24$ years | 25-34 years | 35-44 years | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
|  | Estimated number in thousands |  |  |  |  |  |  |
| A11 heights- | 61,091 | 11,753 | 13,002 | 10,692 | 11,150 | 8,998 | 5,496 |
| Less than 60 | 77 | - | - | 7 | 18 | 20 | 32 |
| 60 | 164 | 39 | 19 | 40 | 3 | 23 | 40 |
| 61 | 152 | 5 | 11 | 47 | 31 | 12 | 46 |
| 62 | 646 | 147 | 13 | 88 | 141 | 133 | 124 |
| 63 | 1,218 | 120 | 273 | 200 | 211 | 192 | 222 |
| 64 | 2,167 | 212 | 383 | 299 | 290 | 485 | 498 |
| 65 | 3,867 | 549 | 546 | 525 | 764 | 757 | 726 |
| 66 | 6,004 | 889 | 1,217 | 986 | 1,076 | 1,090 | 746 |
| 67 | 7,558 | 1,140 | 1,305 | 1,241 | 1,605 | 1,439 | 828 |
| 68 | 8,352 | 1,501 | 1,404 | 1,603 | 1,719 | 1,313 | 812 |
| 69 | 8,642 | 1,666 | 2,045 | 1,537 | 1,595 | 1,241 | 558 |
| 70 | 7,555 | 1,808 | 1,763 | 1,343 | 1,34] | 841 | 459 |
| 71 | 5,494 | 1,342 | 1,192 | 1,127 | 817 | 834 | 182 |
| 72 | 4,270 | 871 | 1,142 | 883 | 870 | 325 | 179 |
| 73 | 2,806 | 764 | 931 | 465 | 425 | 195 | 26 |
| 74 | 1,154 | 329 | 366 | 198 | 173 | 70 | 18 |
| 75 | 417 | 112 | 177 | 72 | 50 | 5 | 1 |
| 76 or more | 552 | 260 | 216 | 30 | 22 | 24 | - |

Table 13. Estimated number of women aged $18-74$ years, by age and height: United States, 1971-74

| Height in inches | Age of women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 <br> ages 18-74 years | $18-24$ years | $\begin{aligned} & 25-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
|  | Estimated number in thousands |  |  |  |  |  |  |
| All heights | 67,925 | L2,924 | 13,933 | 11,576 | 12,163 | 10,052 | 7,277 |
| Less than 55--n-----2 | 33 | 10 | 6 | 4 | - | - | 13 |
| 55 | 155 | 4 | 17 | 7 | - | 100 | 27 |
| 56 | 216 | 19 | 2 | 27 | 42 | 76 | 50 |
| 57 | 536 | 70 | 80 | 31 | 27 | 124 | 204 |
| 58 | 1,105 | 162 | 159 | 106 | 58 | 323 | 297 |
| 59 | 2,503 | 248 | 295 | 427 | 493 | 558 | 482 |
| 60 | 4,583 | 561 | 528 | 689 | 1,003 | 895 | 907 |
| 61 | 7,494 | 1,039 | 1,444 | 966 | 1,258 | 1,613 | 1,174 |
| 62 | 10,165 | 1,689 | 2,082 | 1,555 | 1,969 | 1,565 | 1,305 |
| 63 | 10,315 | 1,963 | 2,256 | 1,654 | 1,841 | 1,570 | 1,031 |
| 64 | 10,150 | 1,982 | 1,943 | 1,891 | 2,118 | 1,438 | 778 |
| 65 | 9,078 | 2,151 | 2,046 | 1,829 | 1,450 | 1,032 | 570 |
| 66 | 5,325 | 1,257 | 1,381 | 977 | 1,031 | 428 | 251 |
| 67 | 3,134 | 887 | 842 | 637 | 488 | 189 | 91 |
| 68 | 1,819 | 431 | 539 | 458 | 228 | 85 | 78 |
| 69 | 744 | 244 | 161 | 197 | 90 | 37 | 15 |
| 70 | 347 | 113 | 113 | 73 | 31 | 17 | - |
| 71 or more | 225 | 95 | 40 | 49 | 34 | 4 | 3 |

Table 14. Percent distribution of adults aged 18-74 years by sex and height, according to age: United States, 1971-74

| Sex and height in inches | Age of adults |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | 18-24 years | $25-34$ years | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $65-74$ years |
| Men | Percent distribution |  |  |  |  |  |  |
| A11 heights----------- | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 60-0----------m---- | 0.13 | - | - | 0.07 | 0.16 | 0.22 | 0.58 |
| 60----- | 0.27 | 0.35 | 0.17 | 0.36 | 0.03 | 0.26 | 0.73 |
| 61 | 0.25 | 0.05 | 0.08 | 0.42 | 0.27 | 0.13 | 0.83 |
|  | 1.05 | 1.28 | 0.10 | 0.73 | 1.27 | 1.47 | 2.25 |
|  | 1.99 | 0.98 | 2.11 | 1.85 | 1.89 | 2.13 | 4.05 |
| 64 | 3.59 | 1.81 | 3.11 | 2.80 | 2.61 | 5.39 | 9.05 |
|  | 6.35 | 4.68 | 4.27 | 4.86 | 6.85 | 8.41 | 13.20 |
| 66 | 9.87 | 7.72 | 9.34 | 9.27 | 9.64 | 12.13 | 13.57 |
| 67 | 12.35 | 9.51 | 10.07 | 11.48 | 14.41 | 15.98 | 15.07 |
| 68 | 13.69 | 12.62 | 10.82 | 15.13 | 15.44 | 14.59 | 14.77 |
|  | 14.14 | 14.20 | 15.68 | 14.42 | 14.30 | 13.80 | 10.15 |
| 70 | 12.34 | 15.31 | 13.49 | 12.66 | 12.02 | 9.32 | 8.36 |
| 71 | 9.01 | 11.59 | 9.11 | 10.66 | 7.33 | 9.28 | 3.30 |
| 72 | 6.97 | 7.41 | 8.76 | 8.15 | 7.79 | 3.62 | 3.27 |
| 73 | 4.55 | 6.38 | 7.08 | 4.43 | 3.80 | 2.17 | 0.48 |
| 74 | 1.87 | 2.86 | 2.81 | 1.74 | 1.55 | 0.77 | 0.33 |
| 75 | 0.68 | 0.95 | 1.36 | 0.68 | 0.45 | 0.06 | 0.0 |
| 76 or mor | 0.90 | 2.30 | 1.64 | 0.29 | 0.19 | 0.27 | - |
| Women |  |  |  |  |  |  |  |
| All heights | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
|  | 0.05 | 0.08 | 0.0 | 0.0 | - | - | 0.18 |
| 55 | 0.23 | 0.0 | 0.13 | 0.06 | - | 1.03 | 0.37 |
| 56 | 0.32 | 0.16 | 0.0 | 0.23 | 0.35 | 0.75 | 0.69 |
| 57 | 0.79 | 0.55 | 0.58 | 0.27 | 0.22 | 1.22 | 2.80 |
| 58 | 1.63 | 1.28 | 1.13 | 0.92 | 0.47 | 3.23 | 4.09 |
| 59 | 3.73 | 1.96 | 2.13 | 3.70 | 4.07 | 5.60 | 6.62 |
| 60 | 6.79 | 4.48 | 3.80 | 5.95 | 8.24 | 8.86 | 12.46 |
| 61 | 11.06 | 8.10 | 10.36 | 8.34 | 10.39 | 16.04 | 16.12 |
| 62 | 14.99 | 13.14. | 14.92 | 13.42 | 16.13 | 15.57 | 17.96 |
| 63 | 15.17 | 15.17 | 16.16 | 14.29 | 15.15 | 15.56 | 14.17 |
| 64 | 14.94 | 15.37 | 13.93 | 16.34 | 17.42 | 14.24 | 10.69 |
| 65 | 13.30 | 16.42 | 14.68 | 15.80 | 11.93 | 10.30 | 7.84 |
| 66 | 7.83 | 9.72 | 9.93 | 8.43 | 8.48 | 4.29 | 3.43 |
| 67 | 4.58 | 6.83 | 6.05 | 5.51 | 3.98 | 1.89 | 1.25 |
| 68 | 2.68 | 3.30 | 3.88 | 3.95 | 1.88 | 0.85 | 1.08 |
| 69 | 1.08 | 1.84 | 1.17 | 1.70 | 0.74 | 0.37 | 0.21 |
| 70- | 0.51 | 0.86 | 0.81 | 0.63 | 0.27 | 0.16 | 0.21 |
|  | 0.32 | 0.71 | 0.29 | 0.42 | 0.28 | 0.0 | 0.0 |

NOTE: Percents may not add to 100.00 due to rounding.

Table 15. Height in inches of adults aged 18-74 years, by sex and age: sample size, estimated population in thousands, mean, standard deviation, standard error of the mean, and selected percentiles: United States, 1971-74

| Sex and age | $\begin{gathered} \text { Sample } \\ \text { size } \end{gathered}$ | Estimated population in thous ands | Mean | Standard deviation | Standard error of the mean | Percentile |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 5th | 10th | 25th | 50th | 75th | 90th | 95th |
| Men |  |  | Height in inches |  |  |  |  |  |  |  |  |  |
| 18-74 years--- | 5,260 | 61,091 | 69.0 | 2.8 | 0.07 | 64.4 | 65.5 | 67.1 | 69.0 | 70.8 | 72.6 | 73.6 |
| 18-24 years-------m- | 772 | 11,753 | 69.7 | 2.8 | 0.18 | 65.1 | 66.1 | 67.8 | 69.7 | 71.5 | 73.4 | 74.4 |
| 25-34 years--------- | 804 | 13,002 | 69.6 | 2.9 | 0.12 | 64.8 | 66.0 | 67.6 | 69.5 | 71.5 | 73.4 | 74.3 |
| 35-44 years-------*- | 665 | 10,692 | 69.1 | 2.7 | 0.13 | 64.7 | 65.8 | 67.3 | 69.2 | 71.1 | 72.6 | 73.4 |
| 45-54 years---------- | 765 | 11,150 | 68.9 | 2.6 | 0.13 | 64.7 | 65.6 | 67.1 | 68.8 | 70.6 | 72.4 | 73.2 |
| 55-64 years--------- | 597 | 8,998 | 68.3 | 2.6 | 0.16 | 64.1 | 65.1 | 66.7 | 68.2 | 70.1 | 71.7 | 72.5 |
| 65-74 years--------- | 1,657 | 5,496 | 67.3 | 2.6 | 0.08 | 63.2 | 64.2 | 65.6 | 67.3 | 69.1 | 70.6 | 71.6 |
| Women |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years--- | 8,411 | 67,925 | 63.6 | 2.5 | 0.04 | 59.5 | 60.5 | 62.0 | 63.7 | 65.3 | 66.8 | 67.8 |
| 18-24 years--0------ | 1,524 | 12,924 | 64.3 | 2.5 | 0.08 | 60.2 | 61.2 | 62.6 | 64.3 | 65.8 | 67.4 | 68.4 |
| 25-34 years--w----m- | 1,896 | 13,933 | 64.1 | 2.4 | 0.08 | 60.2 | 61.2 | 62.4 | 64.0 | 65.7 | 67.3 | 68.2 |
| 35-44 years--------- | 1,663 | 11,576 | 64.1 | 2.5 | 0.09 | 59.9 | 60.8 | 62.3 | 64.1 | 65.7 | 67.3 | 68.4 |
| 45-54 years------n-- | - 836 | 12,163 | 63.6 | 2.3 | 0.10 | 59.9 | 60.6 | 62.1 | 63.7 | 65.2 | 66.7 | 67.3 |
| 55-64 years--------- | 670 | 10,052 | 62.8 | 2.4 | 0.10 | 58.6 | 59.6 | 61.2 | 62.8 | 64.5 | 65.6 | 66.6 |
| 65-74 years-o--m-n-m | 1,822 | 7,277 | 62.3 | 2.4 | 0.08 | 58.2 | 59.3 | 60.8 | 62.3 | 63.9 | 65.3 | 66.2 |

NOTE: Height was measured without shoes.
Table 16. Estimated number of white men aged 18-74 years, by age and height: United States, 1971-74

| Height in inches | Age of white men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | $25-34$ years | $35-44$ years | $45-54$ years | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $65-74$ years |
| All heights--..-.-.--- | Estimated number in thousands |  |  |  |  |  |  |
|  | 54,606 | 10,271 | 11,594 | 9,532 | 10,039 | 8,200 | 4,970 |
|  | 75129 | 39 | - | 726 | 18 | 20 | 30 |
| 60------ |  |  | 11 |  | 326 | 23 | 3832 |
| 61 | 119 | 5 |  | 35 |  | 10 |  |
| 62 | 534 | 122 | 13 | 30 | 141 | 120 | 108 |
| 63 | 1,003 | 67 | 230 | 165 | 170 | 172 | 199 |
| 64 | 1,737 | 141 | 205 | 269 | 241 | 425 | 456 |
| 65 | 3,392 | 469 | 432 | 446. | 698 | $\begin{array}{r} 694 \\ 1,028 \end{array}$ | 653 |
| 66 | 5,399 | 765 | 1,107 | 881 | 930 |  | 688 |
| 67 | 6,524 | 976 | 1,123 | 1,044 | 1,354 | 1,299 | 728 |
| 68 | 7,537 | 1,340 | 1,232 | 1,508 | 1,537 | 1,172 | - 748 |
| 69 | 7,858 | 1,520 | 1,860 | 1,390 | 1,461 | 1,138 | 489 |
| 70 | 6,855 | 1,592 | 1,632 | 1,247 | 1,251 | 714 | 419 |
| 71 | 5,002 | 1,133 | 1,112 | 1,062 | 1,737 | 792 | 166 |
| 72 | 3,850 | 757 | 1,039 | 735 | 829 | $\begin{aligned} & 314 \\ & 180 \end{aligned}$ | 176 |
| 73 | 2,652 | 681 | 890 | 465 | 413 |  | 23 |
| 74 | 1,005 | 292 | 336 | 120 | 170 | $\begin{array}{r} 180 \\ 70 \end{array}$ | 17 |
| 75 | 385 | 312 | 155216 | 72 | 41 | 5 | - - |
| 76 or mor | 548 | 260 |  | 30 | 18 | 24 |  |

Table 17. Estimated number of black men aged 18-74 years, by age and height: United States, 1971-74

| Height in inches | Age of black men |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | $25-34$ years | $35-44$ years | 45-54 | $55-64$ years | $65-74$ years |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Less than 60- | 2 | - | - | - | - | - | 2 |
| 60- | 16 | - | - | 14 | - | - | 2 |
| 61 - | 23 | - | - | 12 | 3 | - | 8 |
| 62 | 74 | 25 | - | 27 | - | 12 | 10 |
| 63 | 124 | 25 | 35 | 9 | 31 | 4 | 20 |
| 64-- | 366 | 61 | 141 | 22 | 50 | 58 | 34 |
| 65- | 393 | 41 | 80 | 75 | $\therefore 65$ | 63 | 69 |
| 66 | 504 | 86 | 103 | 49 | $\cdots 146$ | 62 | 58 |
| 67 | 953 | 138 | 178 | 169 | 236 | 139 | 93 |
| 68---. | 662 | 145 | 119 | 95 | 170 | 72 | 61 |
| 69 | 747 | 132 | 186 | 147 | 119 | 98 | 65 |
| 70 | 643 | 174 | 116 | 96 | 90 | 127 | 40 |
| 71. | 493 | 210 | 80 | 65 | 80 | 42 | 16 |
| 72 | 416 | 114 | 102 | 147 | 40 | 10 | 3 |
| 73 | 155 | 83 | 41 | - | 12 | 15 | 4 |
| 74-- | 149 | 37 | 29 | 79 | 3 | - | 1 |
| 75 | 32 | - | 22 | - | 9 | - | 1 |
| 76 or more | 3 | - | - | - | 3 | - | - |

Table 18. Estimated number of white women aged 18-74 years, by age and height: United States, 1971-74

| Height in inches | Age of white women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | $18-24$ years | $\begin{aligned} & 25-34 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
|  | Estimated number in thousands |  |  |  |  |  |  |
| A11 heights | 60,011 | 11,161 | 12,161 | 10,095 | 10,879 | 9,112 | 6,603 |
| Less than 55 | 29 | 10 | 6 | 4 | - | - | 9 |
| 55 | 123 | 4 | 17 | 7 | - | 68 | 27 |
| 56 | 210 | 16 | - | 27 | 42 | 76 | 49 |
| 57 - | 484 | 53 | 78 | 22 | 23 | 124 | 184 |
| 58 | 913 | 127 | 120 | 63 | 50 | 278 | 275 |
| 59 | 2,144 | 208 | 260 | 306 | 454 | 479 | 437 |
| 60 | 4,036 | 420 | 464 | 581 | 886 | 847 | 838 |
| 61 | 6,745 | 901 | 1,249 | 889 | 1,186 | 1,471 | 1,049 |
| 62 | 8,881 | 1,418 | 1,793 | 1,409 | 1,693 | 1,394 | 1,174 |
| 63 | 9,139 | 1:712 | 1,916 | 1,448 | 1,657 | 1,463 | 943 |
| 64 | 8,924 | 1,713 | 1,694 | 1,567 | 1,902 | 1,339 | 709 |
| 65 | 8,026 | 1,870 | 1,788 | 1,641 | 1,302 | - 914 | 511 |
| 66 | 4,796 | 1,112 | 1,258 | 901 | 925 | 369 | 231 |
| 67 | 2,761 | 797 | 739 | 580 | 405 | 164 | 76 |
| 68 | 1,633 | 395 | 489 | 393 | 207 | 73 | 76 |
| 69 | 654 | 226 | 152 | 146 | 82 | 33 | 15 |
| 70- | 303 | 95 | 98 | 62 | 31 | 17 | - |
| 71 or more | 211 | 84 | 40 | 49 | 34 | 4 | - |

Table 19. Estimated number of black women aged 18-74 years, by age and height: United States, 1971-74

| Height in inches | Age of black women |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A11 } \\ & \text { ages } \\ & 18-74 \\ & \text { years } \end{aligned}$ | 18-24 | $25-34$ years | $35-44$ years | $\begin{aligned} & 45-54 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 55-64 \\ & \text { years } \end{aligned}$ | 65-74 years |
|  | Estimated number in thousands |  |  |  |  |  |  |
| All heights---- | 7,302 | 1,578 | 1,646 | 1,318 | 1,237 | 871 | 652 |
| Less than 55---- | - | - | - | - | - | - | - |
| 55-- | 32 | - | - | - | - | 32 | - |
| 57 | 41 | 17 | 2 | 4 | 3 | - | 15 |
| 58 | 109 | 15 | 33 | 13 | - | 26 | 22 |
| 59----- | 236 | 25 | 33 | 55 | 28 | 54 | 41 |
| 60 | 470 | 103 | 54 | 86 | 117 | 48 | 62 |
| 61 | 717 | 131 | 188 | 59 | 72 | 142 | 125 |
| 62- | 1,197 | 247 | 267 | 125 | 256 | 171 | 131 |
| 63 | 1,116 | 240 | 293 | 206 | 182 | 107 | 88 |
| 64 | 1,176 | 247 | 223 | 323 | 215 | 99 | 69 |
| 65- | 1,010 | 274 | 250 | 189 | 145 | 93 | 59 |
| 66 | - 509 | 126 | 123 | 76 | 106 | 59 | 19 |
| 67 | 353 | 71 | 102 | 57 | 83 | 25 | 15 |
| 68 | 187 | 36 | 50 | 65 | 22 | 12 | 2 |
| 69 | 89 | 17 | 10 | 50 | 8 | 4 | - |
| 70- | 43 | 17 | 15 | 11 | - | - | - |
| 71 or more | 14 | 11 |  |  | - | - | 3 |

Table 20. Percent distribution of white adults aged $18-74$ years by sex and height, according to age: United States, 1971-74


NOTE: Percents may not add to 100.00 due to rounding.

Table 2l. Percent distribution of black adults aged 18-74 years by sex and height, according to age: United States, 1971-74

| Sex and height in inches | Age of black adults |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years | 18-24 years | $25-34$ years | $\begin{aligned} & 35-44 \\ & \text { years } \end{aligned}$ | 45-54 years | 55-64 years | $\begin{aligned} & 65-74 \\ & \text { years } \end{aligned}$ |
| Men | Percent distribution |  |  |  |  |  |  |
| All heights----------- | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 60---------------1 | 0.0 | - | - | - | - | - | 0.38 |
|  | 0.24 | - | - | 1.42 | - |  | 0.42 |
| 61 | 0.38 | -- | - | 1.21 | 0.30 | - | 1.72 |
| 62 | 1.20 | 2.00 | - | 2.65 | - | 1.73 | 2.00 |
| 63 | 2.18 | 1.83 | 2.86 | 0.85 | 2.91 | 0.56 | 4.10 |
| 64 | 6.60 | 4.80 | 11.46 | 2.16 | 4.70 | 8.26 | 6.98 |
| 65 | 6.74 | 3.11 | 6.48 | 7.44 | 6.18 | 8.95 | 14.13 |
| 66 | 8.93 | 6.95 | 8.33 | 5.25 | 13.55 | 8.80 | 11.92 |
| 67 | 16.43 | 10.48 | 14.43 | 16.72 | 22.43 | 19.84 | 19.16 |
| 68 | 11.54 | 11.28 | 9.67 | 9.41 | 16.15 | 10.31 | 12.57 |
| 69 | 12.97 | 10.55 | 15.05 | 14.54 | 11.29 | 13.92 | 13.32 |
| 70 | 11.15 | 13.66 | 9.43 | 9.48 | 8.57 | 18.10 | 8.31 |
| 71 | 8.62 | 16.60 | 6.48 | 6.46 | 7.56 | 5.96 | 3.23 |
| 72 | 7.09 | 9.13 | 8.33 | 14.59 | 3.81 | 1.49 | 0.67 |
| 73 | 2.82 | 6.61 | 3.33 |  | 1.13 | 2.08 | 0.81 |
| 74 | 2.43 | 3.00 | 2.39 | 7.82 | 0.26 | - | 0.16 |
| 75- | 0.59 | - | 1.76 | - | 0.85 | - | 0.12 |
|  | 0.06 | - | - | - | 0.31 | - | - |
| Women |  |  |  |  |  |  |  |
| All heights | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Less than 55----------------- | - $\square^{-}$ | - | - | - | - | - | - |
|  | 0.49 | - | - | - | - | 3.69 | - |
| 56 | 0.04 | - | 0.10 | - | - $\square^{-}$ | - | 0.15 |
| 57 | 0.57 | 1.11 | 0.12 | 0.27 | 0.27 | - ${ }^{-}$ | 2.26 |
| 58 | 1.53 | 0.96 | 2.02 | 0.97 | - | 3.02 | 3.40 |
| 59 | 3.33 | 1.63 | 2.11 | 4.14 | 2.30 | 6.22 | 6.26 |
| 60 | 6.48 | 6.64 | 3.40 | 6.54 | 9.44 | 5.50 | 9.50 |
| 61 | 9.92 | 8.40 | 11.41 | 4.45 | 5.81 | 16.40 | 19.03 |
| 62 | 16.30 | 15.53 | 16.23 | 9.47 | 20.67 | 19.39 | 20.31 |
| 63 | 15.22 | 15.27 | 17.77 | 15.63 | 14.70 | 12.33 | 13.50 |
|  | 16.07 | 15.57 | 13.53 | 24.50 | 17.40 | 11.27 | 10.62 |
| 65 | 13.73 | 17.00 | 15.16 | 14.34 | 11.74 | 10.71 | 8.97 |
| 66 | 6.94 | 8.00 | 7.46 | 5.76 | 8.56 | 6.79 | 2.95 |
| 67 | 4.78 | 4.61 | 6.16 | 4.36 | 6.73 | 2.88 | 2.29 |
| 68 | 2.56 | 2.30 | 3.02 | 4.90 | 1.76 | 1.39 | 0.32 |
| 69 | 1.24 | 1.14 | 0.60 | 3.82 | 0.62 | 0.41 | - |
|  | 0.60 | 1.11 | 0.91 | 0.85 | - | - | - |
|  | 0.20 | 0.73 | - | - | - | - | 0.44 |

NOTE: Percents may not add to 100.00 due to rounding.

Table 22. Height in inches of adults aged $18-74$ years, by sex, race, and age: sample size, estimated population in thousands, mean, standard deviation, standard error of the mean, and selected percentiles: United States, 1971-74

| Sex, race, and age | Sample size | Estimated population in thousands | Mean | Standard deviation | Standard error of the mean | Percentile |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 5th | 10th | 25th | 50th | 75th | 90th | 95th |
| MEN |  |  | Height in inches |  |  |  |  |  |  |  |  |  |
| 18-74 years------------ | 4,343 | 54,606 | 69.1 | 2.8 | 0.08 | 64.6 | 65.6 | 67.2 | 69.1 | 70.9 | 72.7 | 73.6 |
|  | 625 | 10,271 | 69.8 | 2.8 | 0.20 | 65.3 | 66.3 | 67.9 | 69.8 | 71.4 | 73.4 | 74.5 |
|  | 672 | 11,594 | 69.7 | 2.8 | 0.13 | 65.3 | 66.3 | 67.7 | 69.7 | 71.7 | 73.4 | 74.3 |
|  | 570 | 9,532 | 69.2 | 2.6 | 0.13 | 64.8 | 65.9 | 67.5 | 69.3 | 71.1 | 72.6 | 73.4 |
|  | 628 | 10,039 | 168.9 | 2.6 | 0.14 | 64.7 | 65.6 | 67.2 | 68.9 | 70.7 | 72.5 | 73.3 |
|  | 504 | 8,200 | 68.3 | 2.6 | 0.17 | 64.2 | 65.1 | 66.7 | 68.2 | 70.1 | 71.7 | 72.5 |
|  | 1,344 | 4,970 | 67.3 | 2.6 | 0.09 | 63.2 | 64.2 | 65.6 | 67.3 | 69.1 | 70.6 | 71.7 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years------------ | 847 | 5,753 | 68.6 | 2.8 | 0.16 | 64.1 | 64.8 | 66.8 | 68.6 | 70.6 | 72.4 | 73.3 |
|  | 132 | 1,270 | 69.5 | 2.8 | 0.45 | 64.6 | 65.3 | 67.4 | 69.8 | 71.7 | 72.9 | 73.6 |
|  | 119 | 1,232 | 68.6 | 2.9 | 0.38 | 64.1 | 64.4 | 66.6 | 68.6 | 70.6 | 72.6 | 73.7 |
|  | 87 | 1,005 | 69.1 | 3.1 | 0.44 | 62.4 | 65.6 | 67.2 | 69.2 | 71.3 | 72.8 | 74.3 |
|  | 130 | 1,057 | 68.2 | 2.4 | 0.26 | 64.5 | 65.4 | 66.6 | 67.9 | 69.5 | 71.3 | 72.3 |
| 55-64 years | 85 | 703 | 68.2 | 2.3 | 0.32 | 64.1 | 64.4 | 66.6 | 68.1 | 70.1 | 70.9 | 71.8 |
| 65-74 years | 294 | 486 | 67.3 | 2.4 | 0.18 | 63.1 | 64.2 | 65.6 | 67.5 | 69.1 | 70.2 | 70.9 |
| WOMEN |  |  |  |  |  |  |  |  |  |  |  |  |
| White |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years----m------ | 6,758 | 60,011 | 63.7 | 2.5 | 0.05 | 59.5 | 60.6 | 62.0 | 63.7 | 65.3 | 66.8 | 67.8 |
|  | 1,165 | 11,161 | 64.3 | 2.5 | 0.09 | 60.3 | 61.3 | 62.7 | 64.3 | 65.9 | 67.4 | 68.4 |
| 25-34 years | 1,539 | 12,161 | 64.1 | 2.5 | 0.08 | 60.2 | 61.2 | 62.4 | 64.1 | 65.8 | 67.3 | 68.3 |
| 35-44 years-------------------- | 1,301 | 10,095 | 64.1 | 2.5 | 0.09 | 60.1 | 60.9 | 62.4 | 64.1 | 65.7 | 67.3 | 68.4 |
| 45-54 years | 705 | 10,879 | 63.6 | 2.4 | 0.11 | 59.9 | 60.6 | 62.0 | 63.7 | 65.2 | 66.7 | 67.3 |
|  | 552 | 9,112 | 62.8 | 2.4 | 0.11 | 58.6 | 59.7 | 61.2 | 62.8 | 64.5 | 65.6 | 66.6 |
| 65-74 years------------------- | 1,496 | 6,603 | 62.3 | 2.4 | 0.09 | 58.2 | 59.2 | 60.7 | 62.3 | 63.9 | 65.3 | 66.2 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |
| 18-74 years------------ | 1,557 | 7,302 | 63.7 | 2.5 | 0.09 | 59.6 | 60.6 | 62.1 | 63.7 | 65.3 | 66.8 | 67.8 |
|  | 329 | 1,578 | 64.0 | 2.4 | 0.20 | 60.2 | 60.9 | 62.4 | 64.0 | 65.4 | 66.9 | 68.1 |
|  | 335 | I,646 | 63.9 | 2.3 | 0.20 | 60.2 | 61.2 | 62.3 | 63.7 | 65.3 | 67.1 | 67.8 |
|  | 334 | 1,318 | 64.2 | 2.5 | 0.19 | 59.8 | 60.7 | 62.8 | 64.3 | 65.6 | 67.7 | 68.8 |
| 45-54 years-------m-n--n---- | 126 | 1,237 | 63.8 | 2.2 | 0.30 | 60.2 | 60.7 | 62.3 | 63.6 | 65.6 | 66.8 | 67.6 |
|  | 115 | - 871 | 62.8 | 2.6 | 0.24 | 58.4 | 59.5 | 61.3 | 62.8 | 64.7 | 66.2 | 66.9 |
|  | 318 | 652 | 62.6 | 2.4 | 0.18 | 58.7 | 59.6 | 61.2 | 62.5 | 64.1 | 65.5 | 66.2 |

NOTE: Height was measured without shoes.

Table 23. Comparison of mean heights and weights in HES (1960-62) and HANES (1971-74), by sex and age: United States

| Age | Sex and height |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men |  |  |  |  | Women |  |  |  |  |
|  | 1960-62 |  | 1971-74 |  | ExcessofHANESoverHES | 1960-62 |  | 1971-74 |  | ExcessofHANESoverHES |
|  | ```Number of examined persons``` | Mean height in inches | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { examined } \\ & \text { persons } \end{aligned}$ | $\begin{gathered} \text { Mean } \\ \text { height } \\ \text { in } \\ \text { inches } \end{gathered}$ |  | ```Number of examined persons``` | $\begin{aligned} & \text { Mean } \\ & \text { height } \\ & \text { in } \\ & \text { inches } \end{aligned}$ | Number of examined persons | $\begin{aligned} & \text { Mean } \\ & \text { hefght } \\ & \text { In } \\ & \text { inches } \end{aligned}$ |  |
| 18-74 years------------ | 3,019 | 68.3 | 5,260 | 69.0 | +0.7 | 3,511 | 63.1 | 8,411 | 63.6 | +0.5 |
|  | 411 | 68.7 | 772 | 69.7 | +1.0 | 534 | 63.8 | 1,524 | 64.3 | +0.5 |
|  | 675 | 69.1 | 804 | 69.6 | +0.5 | 746 | 63.7 | 1,896 | 64.1 | +0.4 |
|  | 703 | 68.5 | 665 | 69.1 | +0.6 | 784 | 63.5 | 1,663 | 64.1 | +0.6 |
| 45-54 years | 547 | 68.2 | 765 | 68.9 | +0.7 | 705 | 62.9 | 836 | 63.6 | +0.7 |
| 55-64 years | 418 | 67.4 | 597 | 68.3 | +0.9 | 443 | 62.4 | 670 | 62.8 | +0.4 |
| 65-74 years- | 265 | 66.9 | 1,657 | 67.3 | +0.4 | 299 | 61.5 | 1,822 | 62.3 | +0.8 |
| Age | Sex and weight |  |  |  |  |  |  |  |  |  |
|  | Men |  |  |  |  | Women |  |  |  |  |
|  | 1960-62 |  | 1971-74 |  | ExcessofHANESOverHES | 1960-62 |  | 1971-74 |  | Excess of HANES over HES |
|  | ```Number of examined persons``` | Mean weight in pounds | ```Number ``` | $\begin{gathered} \text { Mean } \\ \text { weight } \\ \text { in } \\ \text { pounds } \end{gathered}$ |  | $\begin{aligned} & \text { Number } \\ & \text { of } \\ & \text { examined } \\ & \text { persons } \end{aligned}$ | $\begin{aligned} & \text { Mean } \\ & \text { weight } \\ & \text { in } \\ & \text { pounds } \end{aligned}$ | ```Number ``` | $\begin{gathered} \text { Mean } \\ \text { weight } \\ \text { in } \\ \text { pounds } \end{gathered}$ |  |
| 18-74 years- | 3,019 | 166 | 5,260 | 172 | $+6$ | 3,511 | 140 | 8,411 | 143 | +3 |
|  | 411 | 158 | 772 | 165 | +7 | 534 | 127 | 1,524 | 132 | +5 |
| 25-34 years- | 675 | 169 | 804 | 176 | +7 | 746 | 134 | 1,896 | 140 | +6 |
|  | 703 | 170 | 665 | 178 | +8 | 784 | 142 | 1,663 | 148 | +6 |
|  | 547 | 170 | 765 | 175 | +5 | 705 | 145 | 1,836 | 149 | +4 |
|  | 418 | 164 | 597 | 171 | +7 | 443 | 150 | 670 | 149 | -1 |
|  | 265 | 158 | 1,657 | 164 | +6 | 299 | 144 | 1,822 | 146 | +2 |

NOTE: Hefght was measured without shoes. 2 lbs. are deducted from HES data to allow for weight of clothing; total weights of alI clothing for HANES ranged from 0.20 to 0.62 lb ., which is not deducted from weights shown.

Table 24. Cumulative percent distribution of weight in pounds of men in HES (1960-62) and HANES (1971-74), by age: United States

| Weight in pounds | Age of men |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages 18-74 years |  | 18-24 years |  | 25-34 years |  | 35.44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ 74 | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | 1971- | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 100--- | 0.21 0.14 |  | - | $-1$ | 0.08 | - | - | 0.0 | 0.21 | 0.08 | 0.29 | 0.60 | 1.15 | 0.36 |
| Under 110--- | 0.58 | 0.80 |  | 0.54 | 0.21 | 0.31 | 0.40 | 0.23 | 0.52 | 0.84 | 0.54 | $\frac{1}{3} .91$ | 2.80 | 1.75 |
| Under 120--- | $\begin{aligned} & 2.13 \\ & 6.39 \end{aligned}$ | 2.15 | 2.03 | 2.30 | 2.05 | 1.22 | 0.77 | 0.98 | 1.35 | 1.80 | 2.85 | 3.77 | 6.06 | 4.34 |
| Under 130---- |  | 5.99 | 9.37 | 8.05 | 5.33 | 4.14 | 2.62 | 4.32 | 4.33 | 5.10 | 4.92 | 6.60 | 12.56 | 10.17 |
| Under 140---- | $\begin{array}{r} 6.39 \\ 14.06 \end{array}$ | 12.29 | 20.55 | 17.41 | 12.75 | 9.90 | 9.10 | 8.71 | 10.62 | 10.28 | 16.93 | 12.63 | 21.43 | 17.85 |
| Under 150--- | 26.14 | 22.42 | 38.83 | 32.86 | 24.11 | 20.14 | 18.04 | 15.11 | 20.97 | 18.31 | 29.18 | 22.35 | 36.49 | 29.06 |
| Under 160--- | 40.64 | 36.27 | 54.55 | 49:27 | 37.76 | 36.35 | 34.04 | 25.40 | 35.60 | 29.90 | 43.14 | 34.83 | 48.14 | 46.04 |
| Under 170--- | $\begin{aligned} & 55.34 \\ & 68.54 \end{aligned}$ | 50.64 | 69.29 | 64.73 | 51.03 | 48.02 | 48.74 | 40.94 | 43.12 | 44.79 | 57.77 | 49.25 | 68.19 | 60.94 |
| Under 180--.-. |  | 64.32 | 80.02 | 74.94 | 64.57 | 60.83 | 64.56 | 54.76 | 63.35 | 58.81 | 70.04 | 67.74 | 77.60 | 75.05 |
| Under 190--... | $\begin{array}{r} 68.54 \\ 79.75 \end{array}$ | 75.69 | 89.21 | 82.61 | 75.88 | 71.83 | 77.38 | 69.08 | 76.63 | 72.17 | 80.27 | 79.36 85 | 85.06 | 86.68 |
| Under 200---- | $\begin{aligned} & 79.75 \\ & 87.18 \\ & 92.60 \end{aligned}$ | 84.11 | 92.12 | 88.61 | 84.45 | 81.19 | 85.86 | 80.42 | 85.23 | 82.38 | 88.07 | 85.08 90 | 91.32 | 90.85 |
| Under ${ }^{\text {Under }}$ 210----- | 95.88 | 89.61 93.42 | 94.28 96.20 | 91.73 94.58 | 91.22 94.36 | 86.82 91.04 | 91.94 95.48 | 89.47 92.39 | 90.60 95.33 | 87.44 93.01 | 94.12 97.38 | 90.79 94.39 | 96.29 98.34 | 94.51 97.89 |
| Under 230-.... | $\begin{aligned} & 98.02 \\ & 98.90 \end{aligned}$ | 96.11 | 98.97 | 96.87 | 96.67 | 94.42 | 97.54 | 95.79 | 97.75 | 96.27 | 98.90 | 96.24 | 99.75 | 98.57 |
| Under 240---- |  | 97.54 | 99.26 | 98.31 | 98.46 | 95.13 | 98.67 | 96.85 | 98.85 | 98.04 | 99.02 | 97.78 | 99.75 | 99.14 |
| Under 250--- | $\begin{aligned} & 98.90 \\ & 99.51 \end{aligned}$ | 98.26 | 99.79 | 98.95 | 99.21 | 95.88 | 99.39 | 97.62 | 99.77 | 98.72 | . 99.14 | 98.81 | 100.00 | 99.42 |

Table 25. Cumulative percent distribution of weight in pounds of women in HES (1960-62) and HANES (1971-74), by age: United States

| Weight in pounds | Age of women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Al1 ages } \\ & 18-74 \text { years } \end{aligned}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\begin{gathered} 1960 \mathrm{~m} \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $1960-$ 62 | $\underset{74}{1971-}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\frac{1971-}{74}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $\begin{gathered} 1960 \cdots \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ |
| Cumallative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 90-- | 0.40 | 0.80 | 0.47 | 0.99 | 0.45 | 0.49 |  | 0.22 | 0.16 | 0.59 | 0.95 | 1.77 | 0.68 | 1.10 |
| Under 100 | 2.41 | 3.12 | 5.39 | 5.27 | 3.54 | 3.21 | 0.84 | 1.62 | 1.87 | 1.46 | 1.05 | 3.81 | 2.05 | 3.67 |
| Under 110- | 9.05 | 9.72 | 18.15 | 15.45 | 12.32 | 11.83 | 5.65 | 6.17 | 7.28 | 5.97 | 3.86 | 9.50 | 7.23 | 8.49 |
| Under 120-- | 22.05 | 22.49 | 35.87 | 35.19 | 29.95 | 27.33 | 21.37 | 17.51 | 17.25 | 16.24 | 9.98 | 17.09 | 14.13 | 18.00 |
| Under 130-- | 38.41 | 38.24 | 58.99 | 53.49 | 49.89 | 46.57 | 37.89 | 34.47 | 29.85 | 30.30 | 21.63 | 27.81 | 27.13 | 30.54 |
| Under 140 | 54.82 | 54.92 | 74.53 | 72.19 | 66.66 | 63.01 | 54.59 | 51.84 | 44.60 | 45.28 | 40.54 | 44.89 | 42.95 | 45.55 |
| Under 150 | 68.72 | 66.87 | 86.10 | 82.18 | 78.63 | 73.43 | 67.08 | 63.84 | 61.73 | 58.51 | 56.28 | 57.02 | 58.49 | 61.21 |
| Under 160- | 77.32 | 75.80 | 91.94 | 87.51 | 84.78 | 80.36 | 76.65 | 73.43 | 71.90 | 69.62 | 65.34 | 68.34 | 70.10 | 72.00 |
| Under 170-- | 83.88 | 83.17 | 94.96 | 92.09 | 89.22 | 84.90 | 83.05 | 79.92 | 79.19 | 80.14 | 74.42 | 78.72 | 81.07 | 81.49 |
| Under 180 | 89.43 | 88.18 | 97.32 | 94.75 | 92.28 | 89.58 | 88.58 | 84.90 | 86.17 | 85.44 | 83.37 | 85.08 | 88.68 | 88.74 |
| Under 190-- | 92.60 | 91.60 | 97.70 | 96.13 | 94.79 | 92.70 | 92.10 | 88.60 | 90.14 | 89.45 | 87.82 | 89.73 | 93.11 | 92.95 |
| Under 200-- | 95.13 | 94.36 | 98.14 | 97.61 | 96.47 | 94.40 | 94.19 | 91.61 | 93.93 | 93.46 | 92.33 | 93.49 | 96.15 | 96.00 |
| Under 210- | 96.93 | 95.88 | 98.71 | 97.99 | 97.70 | 96.00 | 96.16 | 93.75 | 96.13 | 94.63 | 94.90 | 96.03 | 98.59 | 97.49 |
| Under 220.... | 98.04 | 97.27 | 99.05 | 98.56 | 98.41 | 96.87 | 97.36 | 95.90 | 97.68 | 97.05 | 96.65 | 97.27 | 99.75 | 98.45 |
| Under 230 | 98.69 | 98.06 | 99.32 | 98.73 | 98.74 | 98.04 | 98.67 | 96.80 | 98.33 | 97.71 | 97.45 | 98.57 | 100.00 | 98.91 |
| Under 240-.. | 99.20 | 98.65 | 99.66 | 99.29 | 99.05 | 98.56 | 99.07 | 97.76 | 99.00 | 98.47 | 98.77 | 98.76 | 100.00 | 99.39 |
| Under 250- | 99.45 | 99.01 | 99.66 | 99.39 | 99.39 | 98.92 | 99.31 | 98.38 | 99.27 | 99.18 | 99.39 | 98.83 | 100.00 | 99.57 |
| Under 260-- | 99.63 | 99.18 | 99.87 | 99.49 | 99.39 | 99.27 | 99.63 | 98.50 | 99.27 | 99.38 | 99.92 | 98.83 | 100.00 | 99.72 |
| Under 270---- | 99.77 | 99.37 | 99.87 | 99.64 | 99.62 | 99.46 | 99.74 | 98.72 | 99.65 | 99.48 | 99.92 | 99.26 | 100.00 | 99.77 |
| Under 280---- | 99.84 | 99.54 | 99.98 | 99.71 | 99.62 | 99.63 | 99.93 | 99.06 | 99.65 | 99.80 | 100.00 | 99.30 | 100.00 | 99.80 |

Table 26. Cumulative percent distribution of weight in pounds of white men in HES (1960-62) and HANES (1971-74), by age: United States

|  | Age of white men |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Al1 ages } \\ & 18-74 \text { years } \end{aligned}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\underset{62}{1960-}$ | ${ }_{1971} 78$ | $1960-$ 62 | ${ }_{74} 1971-$ | $1960-$ 62 | ${ }_{74} 1971-$ | $1960-$ 62 | $1971-$ | $1960-$ 62 | 1971- | $1960-$ 62 | $1971-$ | ${ }_{62}^{1960-}$ | $1971-$ |
| umulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 100--- | 0.27 | 0.15 |  | - | 0.08 | - |  |  | 0.25 | 0.09 | 0.33 | 0.65 | 1.44 | 0.37 |
| Under 110---- | 0.60 | 0.83 | - | 0.59 | 0.08 | 0.21 | 0.46 | 0.21 | 0.45 | 0.90 | 0.61 | 2.04 | 2.74 | 1.76 |
| Under 120---- | 2.04 | 1.89 | 2.08 | 2.21 | 2.06 | 0.45 | 0.78 | 0.63 | 1.21 | 1.83 | 2.38 | 3.67 | 5.41 | 4.25 9.56 |
| Under Under 140---- | 6.02 13.39 | 5.50 11.14 | 8.51 18.63 | 16.14 | 14.61 | 8.03 | 8.93 | 4.03 | 4.08 | 1.32 9.16 | 15.61 | 12.61 | 21.91 | 9.56 16.59 |
| Under 150-- | 25.34 | 20.75 | 37.18 | 31.18 | 23.06 | 18.22 | 18.05 | 13.51 | 19.85 | 16.57 | 26.14 | 21.42 | 37.56 | 27.61 |
| Under 160---- | 39.53 | 34.56 | 52.66 | 47.89 | 36.19 | 34.07 | 33.52 | 24.35 | 34.28 | 28.21 | 40.37 | 33.09 | 49.07 | 44.87 |
| Under 170- | 54.61 | 49.15 | 67.75 | 63.69 | 50.07 | 45.77 | 49.53 | 40.48 | 47.35 | 42.61 | 55.38 | 48.05 | 68.01 | 60.22 |
| Under 180 | 67.91 | 63.30 | 79.37 | 73.78 | 63.53 | 59.24 | 64.33 | 54.59 | 61.85 | 57.24 | 68.84 | 67.22 | 77.88 | 74.93 |
| Under 190~-. | 79.22 | 75.42 | 88.21 | 81.76 | 75.62 | 71.31 | 76.89 | 69.85 | 75.87 | 71.47 | 79.26 | 79.29 | 84.84 | 84.94 |
| Under 200 | 86.94 | 84.05 |  | 88.38 | 84.44 | 80.72 | 85.62 | 80.71 | 84.76 | 82.29 | 87.59 | 85.35 | 91.61 | 91.09 |
| Under 210-.-- | 92.41 | 89.73 | 93.47 | 91.56 | 91.20 | 86.86 | 91.61 | 89.98 | 90.49 | 87.42 | 93.80 | 91.01 | 96.32 | 94.73 |
| Under 220---- | 95.95 | 93.60 | 95.66 | 94.48 | 94.27 | 90.99 | 95.66 | 92.65 | 95.67 | 93.32 | 97.38 | 94.94 | 98.35 | 98.00 |
| Under 230---- | 98.04 | 96.46 | 98.83 | 97.04 | 96.46 | 94.72 | 97.86 | 96.38 | 97.61 | 96.42 | 98.95 | 96.97 | 99.75 | 98.66 |
| Under 240~-... | 98.89 | 97.76 | 99.16 | 98.70 | 98.36 | 96.13 | 98.67 | 97.08 | 98.89 | 98.17 | 99.09 | 98.33 | 99.76 | 99.13 |
| Under 250-..- | 99.52 | 98.49 | 99.76 | 99.40 | 99.07 | 96.98 | 99.50 | 97.92 | 99.76 | 98.85 | 99.23 | 99.05 | 100.00 | 99.41 |

Table 27. Cumulative percent distribution of weight in pounds of black men in HES (1960-62) and HANES (1971-74), by age: United States

| Height. in Inches | Age of black ren |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages 18-74 years |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\begin{gathered} 1960- \end{gathered}$ | 1971- | $1960-$ 62 | 1971- | $1960-$ 62 | $\frac{1971-}{74}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $1960-$ | $1971-$ |
|  | Cumiative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 100------- | - | 0.01 | - | - - |  |  |  |  | - | - |  | - | - | 0.19 |
| Under L10------- | 0.98 | 0.23 | - | 0.21 | 1.26 | 3.83 | 0.85 | 1.76 | 1.11 | 0.30 | 7 | 0.62 | 9.67 | 0.68 |
| Under 120------- | 3.38 | 3.14 | , | 2.76 | 1.26 | 3.83 | 0.85 | 1.76 | 2.56 | 1.67 | 7.69 | 5.49 | 16.91 | 4.58 |
| Under 130------- | 7.57 | 6.74 | 10.35 | 8.43 | 6.26 | 6.60 | 0.85 | 4.92 | 5.22 | 3.08 | 13.42 | 6.98 | 21.87 | 13.63 |
| Under 140---w-- | 18.39 | 17.95 | 26.50 | 18.23 | 17.48 | 15.95 | 9.70 | 14.66 | 13.99 | 21.03 | 25.92 | 13.17 | 30.43 | 28.13 |
| under 150------ | 32.76 | 32.81 | 44.15 | 37.20 | 27.81 | 29.70 | 17.69 | 24.42 | 27.46 | 33.51 | 50.81 | 34.35 | 50.21 | 40.44 |
| Under 160------- | 48.56 | 46.00 | 64.68 | 51.79 | 42.33 | 45.85 | 34.24 | 27.72 | 45.14 | 44.57 | 60.59 | 48.13 | 63.56 | 55.95 |
| Under 170------ | 61.06 | 59.96 | 79.12 | 67.09 | 51.18 | 59.44 | 39.69 | 40.25 | 63.63 | 64.86 | 72.57 | 58.09 | 85.80 | 67.47 |
| Under 180------m | 72.41 | 70.06 | 84.27 | 79.67 | 63.94 | 63.67 | 64.10 | 49.87 | 72.37 | 72.42 | 76.03 | 70.86 | 88.36 | 76.20 |
| Under 190--.-n-n | 83.16 | 75.56 | 98.07 | 86.24 | 69.51 | 72.55 | 79.31 | 55.07 | 81.53 | 78.38 | 86.19 | 77.89 | 97.55 | 82.07 |
| Under 200-m----- | 88.16 | 83.15 | 98.07 | 88.51 | 77.77 | 82.88 | 86.24 | 73.81 | 87.38 | 83.40 | 90.36 | 80.18 | 97.55 | 89.00 |
| Under 210----n-- | 93.50 | 87.47 | 100.00 | 91.63 | 87.56 | 85.18 | 93.14 | 81.66 | 90.64 | 88.10 | 95.92 | 86.91 | 100.00 | 92.12 |
| Under 220------- | 94.82 | 90.99 | 100.00 | 94.46 | 92.69 | 90.40 | 93.14 | 88.02 | 92.46 | 89.76 | 95.92 | 86.91 | 100.00 | 96.90 |
| Under 230------- | 97.64 | 92.36 | 100.00 | 95.03 | 97.21 | 91.25 | 94.34 | 83.02 | 98.79 | 94.76 | 98.06 | 86.91 | 100.00 | 97.92 |
| Under 240-n---0.- | 98.83 | 95.15 | 100.00 | 95.03 | 98.55 | 95.61 | 98.44 | 93.59 | 98.79 | 96.71 | 98.06 | 90.90 | 100.00 | 99.15 |
| Under 250------- | 99.36 | 95.86 | 100.00 | 95.03 | 100.00 | 95.61 | 98.44 | 93.59 | 100.00 | 97.41 | 98.06 | 95.80 | 100.00 | 99.15 |

Table 28. Cumulative percent distribution of weight in pounds of white women in HES (1960-62) and HANES (1971-74), by age: United States

| Weight in pounds | Age of white women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All ages } \\ 18-74 \text { years } \end{gathered}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | 1960- | 1971- | $1960-$ 62 | $1971-$ 74 | $1960-$ | $1971-$ 74 | $1960-$ | 1971- | $1960-$ 62 | $1971-$ | $1960-$ 62 | 1971- | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 90- | 0.41 | 0.81 | 0.44 | 0.89 | 0.46 | 0.38 | - | 0.22 | 0.81 | 0.65 | 0.95 | 1.97 | 0.72 | 1.15 |
| Under 100--.---- | 2.21 | 3.03 | 5.08 | 5.07 | 3.09 | 2.97 | 0.81 | 1.61 | 1.68 | 1.54 | 0.95 | 4.01 | 2.17 | 3.33 |
| Under 110--.---- | 9.09 | 9.59 | 18.40 | 15.13 | 12.41 | 11.79 | 6.02 | 6.14 | 7.45 | 6.17 | 3.85 | 9.61 | 6.93 | 7.88 |
| Under 120---m--- | 22.61 | 22.93 | 36.49 | 35.14 | 30.59 | 28.39 | 22.76 | 18.04 | 18.00 | 17.15 | 10.42 | 17.82 | 14.62 | 17.83 |
| Under 130-n-m--- | 39.53 | 39.45 | 59.71 | 53.66 | 51.94 | 48.86 | 39.95 | 36.91 | 30.85 | 31.48 | 22.97 | 29.05 | 27.86 | 31.04 |
| Under 140-------- | 56.40 | 56.29 | 74.97 | 73.27 | 69.09 | 64.51 | 56.86 | 54.31 | 46.46 | 46.89 | 43.06 | 46.51 | 44 +14 | 46.52 |
| Under 150------- | 70.74 | 68.56 | 87.19 | 83.31 | 81.35 | 75.11 | 69.89 | 66.63 | 64.07 | 60.75 | 59.04 | 58.86 | 59.68 | 62.48 |
| Under 160------- | 79.31 | 77.41 | 92.65 | 88.57 | 87.00 | 81.77 | 79.92 | 75.82 | 74.42 | 72.07 | 68.60 | 70.06 | 71.12 | 73.25 |
| Under 170------- | 85.69 | 84.65 | 95.64 | 93.08 | 90.65 | 86.07 | 85.59 | 82.07 | 81.97 | 82.10 | 77.07 | 80.58 | 82.02 | 82.59 |
| Under 180------- | 90.57 | 89.42 | 97.54 | 95.68 | 93.03 | 90.39 | 90.61 | 86.42 | 87.99 | 86.75 | 85.25 | 87.32 | 88.60 | 89.85 |
| Under 190------- | 93.53 | 92.57 | 97.89 | 96.86 | 95.53 | 93.04 | 93.94 | 89.81 | 91.11 | 90.77 | 89.55 | 91.43 | 92.94 | 93.81 |
| Under 200------- | 95.85 | 95.14 | 98.40 | 97.98 | 97.04 | 94.71 | 95.36 | 92.85 | 94.69 | 94.52 | 93.73 | 94.71 | 96.16 | 96.70 |
| Under 210------- | 97.47 | 96.50 | 99.06 | 98.22 | 98.25 | 96.30 | 96.94 | 94.44 | 96.67 | 95.62 | 95.67 | 97.05 | 98.74 | 98.11 |
| Under 220------- | 98.45 | 97.66 | 99.27 | 98.77 | 98.50 | 97.18 | 98.19 | 96.36 | 97.93 | 97.71 | 97.59 | 97.80 | 99.73 | 98.55 |
| Under 230-m-...- | 98.96 | 98.39 | 99.49 | 98.97 | 98.78 | 98.15 | 99.02 | 97.16 | 98.59 | 98.41 | 98.22 | 99.01 | 100.00 | 99.00 |
| Under 240------- | 99.37 | 98.93 | 99.88 | 99.32 | 99.08 | 98.70 | 99.31 | 98.00 | 99.12 | 99.10 | 99.13 | 99.21 | 100,00 | 99.49 |
| Under 250------- | 99.60 | 99.23 | 99.88 | 99.42 | 99.47 | 99.03 | 99.52 | 98.59 | 99.42 | 99.55 | 99.55 | 99.29 | 100, 00 | 99.68 |
| Under 260-------- | 99.70 | 99.39 | 99.88 | 99.54 | 99.47 | 99.44 | 99.72 | 98.67 | 99.42 | 99.76 | 99.89 | 99.29 | 100"00 | 99.75 |
| Under 270------- | 99.81 | 99.50 | 99.88 | 99.63 | 99.47 | 99.44 | 99.85 | 98.69 | 99.61 | 99.83 | 99.89 | 99.77 | 100.00 | 99.79 |
| Under 280------- | 99.88 | 99.63 | 100.00 | 99.70 | 99.47 | 99.62 | 100.06 | 98.99 | 99.61 | 99.90 | 100.00 | 99.82 | 100.00 | 99.80 |

Table 29. Cumulative percent distribution of weight in pounds of black women in HES (1960-62) and HANES (1971-74), by age: United States

| Weight in pounds | Age of black women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A11 ages } \\ & 18-74 \text { years } \end{aligned}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1.971- \\ \hline 14 \end{gathered}$ | $1960-$ 62 | $\underset{74}{1971-}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960 \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 90-------- | 0.71 | 0.74 | 0.76 | 1.75 | 0.49 | 1.38 | - 2 |  | $5{ }^{-}$ | - | 1.06 |  | 4.22 | 0.63 |
| Under 100------- | 3.72 | 3.32 | 6.05 | 5.21 | 5.41 | 5.31 | 1.22 | 0.76 | 3.51 | - | 2.21 | 2.24 | 4.22 | 6.59 |
| Under 110------- | 8.66 | 9.15 | 16.27 | 14.44 | 10.61 | 11.91 | 3.77 | 3.59 | 6.38 | 2.67 | 4.29 | 9.22 | 13.79 | 12.15 |
| Under 120------- | 17.45 | 17.15 | 31.23 50 | 33.48 | 24.02 | 17.79 | 12.67 | 9.76 | 9.98 | 6.34 | 4.29 | 11.74 | 22.66 | 17.26 |
| Under 130-n-..-- | 29.00 | 26.46 | 50.75 | 50.22 | 34.26 | 27.59 | 26.56 | 13.50 | 20.55 | 16.65 | 7.72 | 16.54 | 30.16 | 23.57 |
| Under 140------- | 42.99 | 41.48 | 70.77 | 64.63 | 49.41 | 49.22 | 41.81 | 29.22 | 29.68 | 27.75 | 16.35 | 28.58 | 44.93 | 34.24 |
| Under 150------- | 53.17 | 51.64 | 78.83 | 75.03 | 60.02 | 58.53 | 49.07 | 40.18 | 44.23 | 35.26 | 29.20 | 39.61 | 52.14 | 47.47 |
| Under 160------- | 62.06 | 61.47 | 87.72 | 80.70 | 69.91 | 63.24 | 58.06 | 52.48 | 53.77 | 44.45 | 34.01 | 52.95 | 62.37 | 58.67 |
| Under 170------- | 69.74 | 69.98 | 91.73 | 85.64 | 77.91 | 74.94 | 64.99 | 61.11 | 59.64 | 60.17 | 47.92 | 60.01 | 73.45 | 69.74 |
| Under 180------- | 80.25 | 77.26 | 96.61 | 88.70 | 85.39 | 82.94 | 73.26 | 71.50 | 74.86 | 72.08 | 63.28 | 63.34 | 91.13 | 77.11 |
| Under 190-.------ | 84.97 | 83.17 | 97.38 | 91.52 | 88.41 | 90.07 | 78.83 | 78.04 | 83.13 | 76.15 | 69.51 | 73.42 | 95.27 | 83.45 |
| Under 200----m- | 89.45 | 87.44 | 97.38 | 94.96 | 91.55 | 91.50 | 86.34 | 81.14 | 88.95 | 82.80 | 77.73 | 81.74 | 95.27 | 88.82 |
| Under 210---.--- | 92.58 | 90.48 | 97.38 | 96.31 | 93.25 | 93.29 | 89.52 | 87.76 | 93.06 | 84.75 | 86.83 | 86.36 | 97.20 | 91.10 |
| Under 220------ | 94.43 | 93.85 | 97.38 | 97.04 | 97.33 | 94.18 | 90.56 | 91.97 | 95.52 | 90.47 | 86.83 | 92.19 | 100.00 | 97.32 |
| Under 230---*--- | 96.32 | 95.19 | 98.15 | 97.04 | 98.01 | 97.06 | 95.77 | 93.70 | 96.21 | 90.77 | 89.42 | 94.51 | 100.00 | 97.93 |
| Under 240------- | 97.75 | 96.31 | 98.15 | 98.96 | 98.50 | 97.35 | 97.06 | 95.67 | 98.12 | 92.19 | 94.93 | 94.51 | 100.00 | 98.37 |
| Under 250------- | 98.16 | 97.17 | 98.15 | 99.13 | 98.50 | 97.92 | 97.58 | 96.61 | 98.12 | 95.59 | 97.42 | 94.51 | 100.00 | 98.37 |
| Under 260-m----- | 99.06 | 97.34 | 100.00 | 99.13 | 98.50 | 97.92 | 98.91 | 97.03 | 98.12 | 95.59 | 100.00 | 94.51 | 100.00 | 99.43 |
| Under 270--.-a-- | 99.42 | 98.21 | 100.00 | 99.63 | 98.50 | 99.58 | 98.91 | 98.75 | 100.00 | 95.96 | 100.00 | 94.51 | 100.00 | 99.73 |
| ,Under 280------- | 99.55 | 98.83 | 100.00 | 99.72 | 98.50 | 99.65 | 99.51 | 99.48 | 100.00 | 98.81 | 100.00 | 94.51 | 100.00 | 99.73 |

Table 30. Percent of adults aged $18-74$ years above selected weights in HES (1960-62) and HANES (1971-74), by age, sex, and race: United States

| Sex and race | Age of adults |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { A11 ages } \\ 18-74 \text { years } \end{gathered}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | ${ }_{62}^{1960-}$ | ${ }_{74}^{1971-}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $\begin{gathered} 1960 \sim \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $\underset{74}{1971-}$ | $\begin{gathered} 1960 \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | ${ }_{74}^{1971-}$ | $\underset{62}{1960-}$ | ${ }_{74}^{1971-}$ |
| Men | Percent 160 pounds or more |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ${ }^{1}$------- | 59.4 | 63.7 | 45.4 | 50.7 | 62.2 | 63.6 | 66.0 | 74.6 | 64.4 | 70.1 | 56.9 | 65.2 | 51.9 | 54.0 |
| White $\qquad$ <br> Black | 60.5 51.4 | 65.4 54.0 | 47.3 35.3 | 52.1 48.2 | 63.8 57.7 | 65.9 53.1 | 66.5 65.8 | 75.6 70.3 | 65.7 54.9 | 71.8 55.4 | 59.6 39.4 | 66.9 51.9 | 50.9 36.4 | 55.1 |
|  | Percent 170 pounds or more |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ${ }^{1}-$----- | 44.7 | 49.4 | 30.7 | 35.3 | 49.0 |  | 51.3 | 59.1 | 50.9 | 55.2 | 42.2 | 51.0 | 31.8 | 39.1 |
| Women | Percent 140 pounds or more |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tota $1^{1}$-..---- | 45.2 | 45.1 | 25.5 | 27.8 | 33.3 | 37.0 | 45.4 | 48.2 | 55.4 | 54.7 | 59.5 | 55.1 | 57.0 | 54.4 |
| White-n-n----n-n---- <br> Black- | 43.6 57.0 | 43.7 58.5 | 25.0 29.2 | 26.7 35.4 | 30.9 50.6 | 35.5 50.8 | 43.1 58.2 | 45.7 | 53.5 70.3 | 53.1 72.2 | 56.9 83.6 | 53.5 71.4 | 55.9 55.1 | 53.7 65.8 |
|  | Percent 150 pounds or more |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total ${ }^{\text {------ }}$ | 31.3 | 33.1 | 13.9 | 17.8 | 21.4 | 26.6 | 32.9 | 36.2 | 38.3 | 41.5 | 43.7 | 43.0 | 41.5 | 38.8 |
| White--------------- | 29.3 46.8 | 31.4 48.4 | 12.8 21.2 | 16.7 25.0 | 18.6 40.0 | 24.9 41.5 | 30.1 | 33.4 59.8 | 35.9 5.8 | 39.2 | 41.0 | 41.1 | 40.3 | 37.5 |
|  | Percent 170 pounds or more |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tota1 ${ }^{\text {- }}$----- | 16.1 | 16.8 | 5.0 | 7.9 | 10.8 | 15.1 | 16.9 | 20.1 | 20.8 | 19.9 | 25.6 | 21.3 | 18.9 | 18.5 |
| White------------- | 14.3 | 15.3 | 4.4 | 6.9 | 9.3 | 13.9 | 14.4 | 17.9 | 18.0 | 17.9 | 22.9 | 19.4 | 18.0 | 17.4 |
| Black-------------- | 30.3 | 30.0 | 8.3 | 14.4 | 22.1 | 25.1 | 35.0 | 38.9 | 40.4 | 39.8 | 52.1 | 40.0 | 26.5 | 30.3 |

${ }^{1}$ Includes all races.

Table 31. Cumulative percent distribution of height in inches of men in HES (1960-62) and HANES (1971-74), by age: United'States

| Height in inches | Age of men |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages <br> 18-74 years |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $1960-$ 62 | $1971-$ | $1960-$ 62 | $1971-$ | $1960-$ 62 | $1971-$ 74 | 1960 62 | $\mathrm{ch}_{74} \mathbf{7}$ | $1960-$ 62 | $7971-$ | $1960-1$ | $1971-$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 60--.- | 0.1 | 0.1 | - | - | - 1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0. | 0.2 | 0.7 | 0.6 |
| Under 61---- | 0.3 | 0.4 |  | . 0.4 | 0.1 | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.5 | 0.5 | 1.1 | 1.3 |
| Under Under $63-\cdots$ | 1.0 2.6 | 1.7 | 0.2 1.5 | 0.4 1.7 | 0.2 | 0.3 | 1.9 | 1.9 | 0.7 1.8 | 1.7 | 2.8 5.2 | 2.6 | 5.7 | 4.4 |
| Under 64---- | 5.6 | 3.7 | 3.7 | 2.7 | 3.1 | 2.5 | 3.8 | 3.4 | 4.8 | 3.6 | 12.3 | 4.2 | 9.0 | 8.4 |
| Under 65- | 12.4 | 7.3 | 7.7 | 4.5 | 7.8 | 5.6 | 8.7 | 6.2 | 11.4 | 6.2 | 23.1 | 9.6 | 23.4 | 17.5 |
| Under 66 | 19.1 | 13.6 | 12.8 | 9.2 | 12.2 | 9.8 | 14.8 | 11.1 | 19.1 | 13.1 | 30.3 | 18.0 | 35.7 | 30.7 |
| Under 67 | 32.1 | 23.5 | 28.6 | 16.9 | 22.1 | 19.2 | 27.0 | 20.4 | 31.5 | 22.7 | 43.1 | 30.1 | 54.2 | 44.3 |
| Under 68- | 44.0 | 35.9 | 41.3 | 26.4 | 33.0 | 29.3 | 38.6 | 31.8 | 44.3 | 37.1 | 55.4 | 46.1 | 65.4 | 59.3 |
| Under 69---- | 62.1 | 49.5 | 56.1 | 39.0 | 50.4 | 40.1 | 57.8 | 47.0 | 65.0 | 52.6 | 72.9 | 60.7 | 82.0 | 74.1 |
| Under 70-- | 72.5 | 63.7 | 68.7 | 53.2 | 62.4 | 55.8 | 69.6 | 61.4 | 74.3 | 66.9 | 81.3 | 74.5 | 88.4 | 84.3 |
| Under 71- | 84.5 | 76.0 | 81.0 | 68.5 | 76.6 | 69.2 | 84.0 | 74.1 | 86.4 | 78.9 | 89.8 | 83.8 | 95.4 | 92.6 |
| Under 72--.- | 90.8 | 85.0 | 86.2 | 80.1 | 84.4 | 78.4 | 92.9 | 84.7 | 91.5 | 86.2 | 94.3 | 93.1 | 99.0 | 95.9 |
| Under 73----. | 96.2 | 92.0 | 94.7 | 87.5 | 92.4 | 87.1 | 97.3 | 92.9 | 96.7 | 94.0 | 98.4 | 96.7 | 99.6 | 99.2 |
| Under 74-- | 98.4 | 96.6 | 97.8 | 93.9 | 95.7 | 94.2 | 98.9 | 97.3 | 99.0 | 97.8 | 99.6 | 98.9 | 100.0 | 99.7 |
| Under 75--- | 99.5 | 98.4 | 99.2 | 96.8 | 98.8 | 97.0 | 99.8 | 99.0 | 99.6 | 99.4 | 99.8 | 99.7 | 100.0 | 100.0 |
| Under 76----- | 99.7 | 99.1 | 99.8 | 97.7 | 99.0 | 98.4 | 100.0 | 99.7 | 99.9 | 99.8 | 99.8 | 99.7 | 100.0 | 100.0 |

Table 32. Cumulative percent distribution of height in inches of women in HES (1960-62) and HANES (1971-74), by age: United States

| $\begin{aligned} & \text { He ight in } \\ & \text { Inches } \end{aligned}$ | Age of women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A11 ages } \\ & 18-74 \text { years } \end{aligned}$ |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $1960-$ 62 | ${ }_{74} 1971-$ | $1960-$ 62 | ${ }_{1971-}$ | ${ }_{62} 196$ | ${ }_{74}^{1971-}$ | ${ }_{1}^{1960-}$ | ${ }_{1971-}$ | 1960. 62 | $1971-$ | ${ }^{1960-}$ | $1971-$ | ${ }_{62} 190-$ | $1971-$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 55----- | 0.2 | 0.1 | - | 0.1 | - | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.6 | 0.0 | - | 0.2 |
| Under 56-----. | 0.4 | 0.3 | $\bar{\square}$ | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.5 | 0.0 | 1.0 | 1.0 | 1.3 | 0.6 |
| Under 57------ | 0.7 | 0.6 | 0.1 | 0.3 | 0.3 | 0.2 | 0.5 | 0.3 | 0.5 | 0.4 | 1.6 | 1.8 | 2.0 | 1.2 |
| Under 58---..- | 2.3 | 1.4 | 0.3 | 0.8 | 0.9 | 0.8 | 1.3 | 0.6 | 2.2 | 0.6 | 3.3 | 3.0 | 8.3 | 4.0 |
| Under 59----- | 4.4 | 3.0 | 2.1 | 2.1 | 1.6 | 1.9 | 2.2 | 1.5 | 4.0 | 1.0 | 7.3 | 6.2 | 13.9 | 8.1 |
| Under 60----- | 10.8 | 6.8 | 5.1 | 4.1 | 6.7 | 4.0 | 6.9 | 5.2 | 11.5 | 5.1 | 14.9 | 11.8 | 27.5 | 14.8 |
| Under 61- | 18.5 | 13.5 | 12.0 | 8.5 | 12.2 | 7.8 | 14.1 | 11.2 | 20.8 | 13.4 | 22.9 | 20.7 | 38.4 | 27.2 |
| Under 62------ | 32.8 | 24.6 | 24.6 | 16.6 | 22.4 | 18.2 | 27.2 | 19.5 | 34.0 | 23.7 | 43.5 | 36.7 | 58.0 | 43.3 |
| Under 63- | 50.7 | 39.6 | 40.1 | 29.8 | 42.0 | 33.1 | 43.8 | 32.9 | 55.2 | 39.9 | 62.2 | 52.3 | 72.1 | 61.3 |
| Under 64-- | 63.2 | 54.8 | 51.3 | 45.0 | 53.5 | 49.3 | 57.6 | 47.2 | 68.1 | 55.0 | 76.3 | 67.9 | 82.9 | 75.5 |
| Under 65----- | 78.8 | 69.7 | 70.6 | 60.3 | 71.7 | 63.2 | 75.4 | 63.6 | 82.5 | 72.4 | 87.0 | 82.1 | 92.6 | 86.2 |
| Under 66-m- | 87.1 | 83.0 | 81.2 | 76.7 | 83.1 | 77.9 | 83.9 | 79.4 | 89.4 | 84.4 | 92.4 | 92.4 | 97.5 | 94.0 |
| Under 67----- | 94.8 | 90.8 | 91.9 | 86.5 | 93.9 | 87.8 | 94.6 | 87.8 | 94.4 | 92.9 | 96.4 | 96.7 | 99.0 | 97.4 |
| Under 68--- | 97.2 | 95.4 | 95.3 | 93.3 | 97.2 | 93.9 | 97.0 | 93.3 | 97.2 | 96.8 | 98.1 | 98.6 | 99.2 | 98.7 |
| Under 69 | 99.3 | 98.1 | 98.8 | 96.6 | 99.0 | 97.7 | 99.1 | 97.3 | 99.8 | 98.7 | 99.4 | 99.4 | 99.3 | 99.8 |
| Under 70----- | 99.6 | 99.2 | 99.5 | 98.4 | 99.3 | 98.9 | 99.8 | 99.0 | 99.9 | 99.5 | 99.4 | 99.8 | 99.33 | 100.0 |
| Under 71------ | 99.9 | 99.7 | 99.9 | 99.3 | 99.6 | 99.7 | 99.9 | 99.6 | 99.9 | 99.7 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 33. Cumulative percent distribution of height in inches of white men in HES (1960-62) and HANES (1971-74), by age: United States


Table 34. Cumulative percent distribution of height in inches of black men in HES (1960-62) and HANES (1971-74), by age: United States


Table 35. Cumulative percent distribution of height in inches of white women in HES (1960-62) and HANES (1971-74), by age: United States

| Height in inches | Age of white women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages 18-74 years |  | 18-24 years |  | 25-34 jrears |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ 74 | $1960-1$ | 1971- | $1960-$ 62 | 1971- | $1960-$ 62 | 1971- | 1960 62 | 1971- | $1960-$ 62 | ${ }^{1971-}$ | $\begin{gathered} 1950- \\ 6.2 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ |
|  | Cumulative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 55--....- | 0.210 .1 |  | - |  | - | 0.1 | 0.2 | - | 0.2 | - | 0.5 | - |  | 0.1 |
| Under 56---.... | 0.5 | 0.3 | - | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.6 | - | 1.0 | 0.8 | 1.4 |  |
| Under 57----- | 0.7 | 0.6 | 0.1 | 0.3 | 0.4 | 0.20.8 | 0.5  <br> 1.1 0.4 <br> 0.6  |  | 0.6 | 0.4 |  |  | 1.4 | 1.3 |
| Under 58---- | 2.2 | 1.4 | 0.4 | 0.8 | 0.9 |  |  |  | 1.9 | 0.6 | 1.4 | 2.9 | 8.3 | 4.1 |
| Under 59 | 4.3 | 2.9 | 1.9 | 1.93.8 | 1.6 | 1.8 | 1.7 | 1.2 | 3.6 | 1.1 | 7.114.9 | 6.0 | 13.9 | 8.214.9 |
| Under 60-- | 10.6 | 6.5 |  |  | 6.2 | 4.0 | 13.1 | 10.0 | 11.3 | 13.213.4 |  | 11.3 |  |  |
| Under 61- | 18.2 | 13.3 | 10.623.7 | 7.615.8 | 11.4 | 7.8 |  |  | 20.6 |  | 23.343.6 | 20.6 | 38.058.0 | 27.543.4 |
| Under 62- | 32.5 | 24.6 |  |  | 21.4 | 18.1 | 26.5 | 18.8 | 32.8 | 24.3 |  | 36.7 |  |  |
| Under 63-- | 50.3 | 39.4 | 46.3 | 28.5 | 40.7 | 32.8 | 42.2 | 32.8 | 54.268.0 | 39.8 | 61.9 | 52.0 | 72.282.8 | 61.275.5 |
| Under 64--.- | 63.2 | 54.6 | 51.6 | 43.9 | 52.5 | 48.6 | 56.6 | 47.1 |  | 55.1 | 87.0 | 82.7 |  |  |
| Under 65- | 78.5 | 69.5 | 70.480.9 | 59.375.8 | 70.4 | 62.5 | 74.983.8 | 62.6 | 82.2 | 72.6 |  |  | 92.3 | 86.2 |
| Under 66- | 86.9 | 82.8 |  |  | 82.3 | 77.2 |  | 78.9 | 89.3 | 84.5 | 92.3 | 92.8 | 97.1 | 94.0 |
| Dnder 67- | 94.8 | 90.8 | 91.7 | 85.8 | 93.9 | 87.5 | 94.897.4 | 87.8 | 94.5 | 93.0 | 96.6 | 96.8 | 98.7 | 97.5 |
| Under 68--- | 97.3 | 95.4 | 95.598.9 | 92.9 | 97.3 | 93.6 |  | 93.6 | 96.9 | 96.7 | 98.5 | 98.6 | 98.899.8 | 98.699.8100.0100.0 |
| Under 69--. | 99.4 | 98.1 |  | 96.5 | 99.1 | 97.6 | 97.4 | 97.5 | 99.7 |  | 99.8 | 99.4 |  |  |
| Under 70--- | 99.7 | 99.2 | 99.6 | 98.5 | 99.4 | $\begin{aligned} & 98.9 \\ & 99.7 \end{aligned}$ | 99.899.9 | $\begin{aligned} & 98.9 \\ & 99.5 \end{aligned}$ | $\begin{aligned} & 99.9 \\ & 99.9 \end{aligned}$ | 99.499.7 | $\begin{array}{r} 99.8 \\ 100.0 \end{array}$ | 99.8 | 99.8100.0 |  |
| Under 71----- | 99.9 | 99.7 | 100.0 | 99.3 | 99.8 |  |  |  |  |  |  | 100.0 |  | 100.0 |

Table 36. Cumulative percent distribution of height in inches of black women in HES (1960-62) and HANES (1971-74), by age: United States

| Height in inches | Age of black women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A11 ages 18-74 years |  | 18-24 years |  | 25-34 years |  | 35-44 years |  | 45-54 years |  | 55-64 years |  | 65-74 years |  |
|  | ${ }^{1960} 6$ | ${ }_{74} 1971-$ | ${ }_{62} 1960$ | 1971- | $1960-$ 62 | 1971- | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ | $\begin{gathered} \text { 1960- } \\ 62 \end{gathered}$ | $\begin{gathered} 1971- \\ 74 \end{gathered}$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971 \text { - }$ | $\begin{gathered} 1960- \\ 62 \end{gathered}$ | $1971-$ |
|  | Cumilative percent distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 55---m- | 0.1 - |  | - - |  | - | - | - |  | - | - | 1.1 | - | $\cdots$ | - |
| Under 56---w- | 0.1 | 0.5 | - | - | - |  | - |  | - | - | 1.1 | 3.7 | 3.7 | 0.2 |
| Under 57-0--- | 0.9 | 0.5 |  | - | 1 | 0.1 | 0.9 | 0.3 | 4.3 | 3 | 3.25.4 | 3.7 |  |  |
| Under 58------ | 2.4 | 1.1 | 5 | 1.11 | 1.1 | 0.2 | 0.9 |  |  | 0.3 |  |  | 5.9 | 2.4 |
| Under 59-an- | 4.9 | 2.6 | 2.8 | 2.1 | 1.8 | 2.2 | 4.5 | 1.2 | 6.212.8 | 0.3 | 9.0 | 6.7 | 9.1 | 5.812.1 |
| Under 60----- | 12.4 | 6.0 | 7.3 | 3.7 10.3 | 9.3 | 4.4 | 12.6 | 5.4 |  | 2.6 | 17.1 | 18.4 | 26.4 |  |
| Under 62----- | 33.7 | 22.4 | 25.5 | 18.7 | 14.9 24.1 | 7.8 19.2 | 20.3 30.4 | 16.4 | 22.4 | 12.0 17.8 |  |  | 34.3 51.6 | 21.6 |
| Under 63---- | 51.9 | 38.7 | 35.1 | 34.3 | 42.0 | 35.4 | 50.4 | 25.841.5 | 62.667.9 | 38.5 | 62.471.3 | 54.2 | 67.3 | 60.974.4 |
| Under 64---- | 60.5 | 53.9 | 44.7 | 49.5 | 51.9 | 53.2 | 61.2 |  |  | 53.2 |  | 66.677.8 | 80.094.7 |  |
| Under 65-----20. | 78.7 | 70.0 | 68.4 | 65.1 | 75.9 | 66.7 | 75.3 | 66.0 | 83.3 | 70.6 | 85.8 |  |  | 74.4 85.0 |
| Onder 66--m- | 86.9 | 83.7 | 80.7 | 82.1 | 85.6 | 81.9 | 82.2 | 80.3 | 89.3 | 82.3 | 93.7 | 88.5 | 100.0 | 94.0 |
| Under 67- | 93.6 | 90.6 | 91.3 | 90.1 | 93.2 | 89.3 | 92.6 | 86.190.4 | 93.4 | 90.9 | $\begin{aligned} & 94.8 \\ & 94.8 \end{aligned}$ | $\begin{aligned} & 90.3 \\ & 95.3 \\ & 98.2 \end{aligned}$ | $\begin{aligned} & 100.0 \\ & 100.0 \end{aligned}$ | 97.099.2 |
| Under 68---- | 95.8 | 95.4 | 92.8 | 94.7 | 96.2 | 95.5 | 93.6 |  | 99.3 | 97.6 |  |  |  |  |
| Under 69-a-m | 98.7 | 98.0 | 97.9 | 97.0 | 99.0 | 98.5 | 98.7 | 95.3 | 100.0 | 99.4 | 94.8 95.9 | $\begin{aligned} & 98.2 \\ & 99.6 \end{aligned}$ | 100.0 100.0 | 99.699.6 |
| Under 70-- | 99.1 | 99.2 | 98.9 | 98.2 | 99.0 | 99.1 | 100.0 |  | 100.0 | 100.0 | 95.9 | 100.0 | 100.0 |  |
| Under 7l---m- | 99.6 | 99.8 | 98.9 | 99.3 | 99.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 |

Table 37. Percent of adults aged 18-74 years above selected heights in HES (1960-62) and HANES (1971-74), by age, sex, and race: United States


[^3]
## APPENDIXES

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## APPENDIXI STATISTICAL NOTES

## Survey Design

The sampling plan of the Health and Nutrition Examination Survey (HANES) followed a highly stratified multistage probability design in which a sample of the civilian noninstitutionalized population of the coterminous United States, 1-74 years of age, was selected. Excluded from the selection process were those persons confined to institutions or residing on any of the reservation lands set aside for use by American Indians. Successive elements dealt with in the process of sampling are the primary sampling unit (PSU), census enumeration district (ED), segment (a cluster of households), household, eligible person, and finally, sample person.

The starting points in the first stage of this design were the 1960 decennial census lists of addresses and the nearly 1,900 PSU's into which the coterminous United States was divided. Each PSU is either a standard metropolitan statistical area, a single county, or two or three contiguous counties. The PSU's were grouped into 357 strata for use in the Health Interview Survey and subsequently collapsed into 40 superstrata for the Health and Nutrition Examination Survey.

Of the 40 superstrata, 15 contained a single large metropolitan area of more than 2 million population. These 15 large metropolitan areas were chosen for the sample with certainty. The remaining 25 superstrata were formed by classifying the noncertainty strata into 4 population density groups within each of 4 geographic regions. Then using a modified Goodman-Kish controlled-selection technique to assure proportionate representation of specified State groups and rate-of-population-change classes, 2 PSU's were chosen from each of the 25 noncertainty superstrata with the probability of selection of a

PSU proportionate to its 1960 population. In this manner, a total first-stage sample of 65 PSU's or "stands" included the areas within which a sample of persons would be selected for examination. The PSU's were scheduled to be sampled over a 3 -year period with 300-600 persons to be examined per stand.

Although the 1970 census data were used as the frame for selecting the sample within the PSU when they became available, the calendar of operations required that the 1960 census data be used for the first 44 locations in the HANES sample. The 1970 census data were used for the last 21 stands of the sample.

Beginning with the use of the 1970 census data, the segment size was changed from an expected 6 households selected from compact clusters of 18 households to an expected compact cluster of 8 households. The change was made because of operational advantages, and research by the Census Bureau indicated that precision of estimates would not be appreciably affected by the change from noncompact clusters to compact clusters.

For ED's not having usable addresses (generally located in rural areas), area sampling was employed and consequently some variation in the segment size occurred. To make the sample representative of the current population of the United States, the address or ED segments were supplemented by a sample of housing units that had been constructed since the 1960 and 1970 decennial censuses.

Within each PSU, a systematic sample of segments was selected. The enumeration districts that fell into the sample were coded into one of two economic classes. The first class, identified as the "poverty stratum," was composed of
"Current Poverty Areas" that had been identified by the Bureau of the Census in 1970 (pre-1970 census), plus other ED's in the PSU with a mean family income of less than $\$ 3,000$ in 1959 (based on the 1960 census). The second economic class, the "nonpoverty stratum," included all ED's not designated as belonging to the poverty stratum.

All sample segments classified as being in the poverty stratum were retained in the sample. For the first 42 stands, sample segments in nonpoverty stratum ED's were divided into 8 random subgroups and one of the subgroups was chosen to remain in the HANES sample. Research indicated tiat efficiency of estimates could be increased by changing the ratio of poverty to nonpoverty segments from 8:l to 2:1. Therefore in the later stands, the selected segments in the nonpoverty-stratum ED's were divided into two random subgroups and one of the subgroups was chosen to remain in the HANES sample. The differential sampling permits a separate analysis with adequate reliability of those classified as being below the poverty level and those classified as being above the poverty level.

After identification of the sample segments, a list of all current addresses within the segment boundaries was made and the households were interviewed to determine the age and sex of each household member as well as other demographic and socioeconomic information required for the survey. If no one was at home after repeated calls or if the household members refused to be interviewed, the interviewer tried to determine the household composition from neighbors.

To select the persons in sample segments to be examined in HANES and at the same time to oversample certain groups at high risk of malnutrition, all household members aged 1-74 years in each segment were first listed on a sample selection worksheet with each household in the segment listed serially. The number of household members in each of the six age-sex groups shown in table I were then listed on the worksheet under the appropriate age-sex group column. The sample selection worksheets were next put in segment-number order and a systematic random sample of persons in each age-sex group was selected to be examined using the sampling rates shown in table I.

Table I. Sampling rates by age-sex groups, United States, 1971-74

| Age and sex | Rate |
| :---: | :---: |
| 1-5 years (men and women) ..................................... | 1/2 |
| 6-19 years (men and women) ................................... | $1 / 4$ |
| $20-44$ years (men). | 1/4 |
| 20-44 years (women) | 1/2 |
| $45-64$ years (men and women) | 1/4 |
| 65-74 years (men and women) ................................. | 1 |

The persons selected in the 65 -stand sample of HANES comprised a representative sample of the target population and included 28,043 sample persons 1-74 years of age of whom 20,749 or 74 percent were examined. When adjustments were made for different sampling for high-risk groups, the response rate became 75 percent.

All data presented in this report are based on "weighted" observations. That is, data recorded for each person are inflated to characterize the subuniverse from which that sample person was drawn. The weight for each examined person is a product of the reciprocal of the probability of selecting the person, an adjustment for nonresponse cases (i.e., persons not examined), and a poststratified ratio adjustment which increases precison by bringing survey results into closer alignment with known U.S. population figures for 20 age, race, and sex groups as of November 1, 1972, the approximate midpoint of HANES.

A more detailed description of the survey design and selection technique can be found in "Plan and Operation of the Health and Nutrition Examination Survey, United States, 19711973," Vital and Health Statistics, Series 1Number 10a.

## Nonresponse

In any health examination survey, after the sample is identified and the sample persons are requested to participate in the examination, the survey meets one of its more severe problems, namely that of nonresponse. Usually a sizable number of sample persons will not participate in the examination. A further potential for bias results if the sample persons who do not participate differ from the sample persons examined with respect to the characteristics under examination. Intensive efforts were made in HANES to develop and implement procedures
and inducements that would reduce the number of nonrespondents and thereby reduce the potential of bias due to nonresponse. These procedures and inducements are discussed in "Plan and Operation of the Health and Nutrition Examination Survey, United States, 19711973," Series 1-Number 10a.

Despite these intensive efforts, 25 percent of the sample persons from 65 stands were not examined as compared to previous surveys with response rates of more than 86 percent. Consequently, the potential for a sizable bias does exist in the 1971-74 estimates in the publication. Because more than 95 percent of the sample persons responded to a medical questionnaire in 1971-74, one could examine the characteristics of the nonrespondents and the nature of nonresponse. This examination indicated that the likelihood of sizable bias is small.

As was mentioned earlier, the data in this report were based on weighted observations, and one of the components of the weight assigned to an examined person was an adjustment for nonresponse. A procedure was adopted which multiplies the reciprocal of the probability of selection of sample persons who were examined by a factor that brings estimates based on examined persons up to a level that would have been achieved if all sample persons had been examined. The nonresponse-adjustment factor was calculated by dividing the sum of the reciprocals of the probability of selection for all selected sample persons in each of five income groups within each stand by the sum of the reciprocals of the probability of selection for examined sample persons in the same stand and income group. The five income groups were: under $\$ 3,000 ; \quad \$ 3,000-\$ 6,999 ; \quad \$ 7,000-\$ 9,999$; $\$ 10,000-\$ 14,999$; and $\$ 15,000$ and over. For sample weighting purposes, income group was imputed for 5.6 percent of the sample persons using educational level of the head of the household. To the extent that the income-within-stand classes were homogeneous with respect to the health characteristics under study, the. adjustment procedure was effective in reducing the potential of bias due to nonresponse. The percent distribution of the nonresponse adjustment factors computed for the 65 -stand sample of HANES is shown in table II.

Table II. Percent distribution of nonresponse adjustment factors, Health and Nutrition Examination Survey: United States, 1971-74

| Size of factor | Percent distribution |
| :---: | :---: |
| Total.............................................. | 100.0 |
| 1.00-1.24 ..................................................... | 32.6 |
| 1.25-1.49 ..................................................... | 38.5 |
| 1.50-1.74 ..................................................... | 18.2 |
| 1.75-1.99 ...................................................... | 7.4 |
| 2.00-2.49 ...................................................... | 2.8 |
| 2.50-2.99 | 0.3 |
| $3.00{ }^{1}$ | 0.3 |

[^4]
## Missing Data

Examination surveys are subject to the loss of information not only through the failure to examine all sample persons but also from the failure to obtain and record all items of information for examined persons. Age, sex, and race were known for every examined person, but for a number of examinees one or more of the anthropometric measurements were not available. The extent of these missing measurements is indicated in table III.

Estimates for missing anthropometric data were generally made subjectively on the basis of a multiple-regression type decision, substituting for the missing measurements those of an individual who was of the same age, sex, and race and who had other dimensions similar to those available for the examinee with incomplete data.

For those with no anthropometric measurements available, a respondent of the same age-sex-race group was selected at random and his

Table III. Number of examinees with one or more missing anthropometric measurements, Health and Nutrition Examination Survey: United States, 1971-74

| Measurement missing | Number of examinees |
| :---: | :---: |
| All measurements ..................................... | 23 |
| Height only .................................................. | 15 |
| Weight only................................................. | 45 |
| Height and weight ......................................... | 4 |

measurements were assigned to the nonexamined person.

## Small Numbers

In some tables, magnitudes are shown for cells for which the sample size is so small that the standard error may be several times as great as the statistic itself. In such instances the numbers, if shown, have been included only to convey an impression of the overall story of the table.

## Standard Errors

The probability design of the survey makes possible the estimation of standard errors corresponding to the weighted estimates presented. The standard error is primarily a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the standard error also reflects part of the variation which arises in the measurement process. It does not include estimates of any
biases which might lie in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference would be less than twice the standard error and about 99 out of 100 that it would be less than $21 / 2$ times as large.

Estimates of standard errors are obtained from the sample data and are themselves subject to sampling error when the number of cases in a cell is small, or even occasionally when the number of cases is substantial.

Estimates of the standard errors for selected statistics used in this report are presented in tables 4, 11, 15, and 22. These estimates have been prepared by a replication technique which yields overall variability through observation of variability among random subsamples of the total sample. Again, readers are reminded that these estimated standard errors do not reflect any residual bias which might still be present after the attempted correction for nonresponse.

## APPENDIX II DEMOGRAPHIC TERMS

The demographic characteristics of the population sampled are defined as follows:

Age.-The age recorded for each examinee was the age at his last birthday on the date of examination. The age criterion for inclusion in the sample used in this survey was defined in terms of his age at time of census interview. Some of those who were 74 years old at the time of interview became 75 years old by the time of the examination. There were 20 such cases. In the adjustment and weighting proce-
dures used to produce national estimates, these persons were included in the 74 -year-old group.

Race.-For each individual, race was recorded by observation as "white," "black," or "other races." The last category included American Indians, Chinese, Japanese, and all races other than white or black. Mexican persons were included with "white" unless definitely known to be American Indian or of another race other than white. Blacks and persons of mixed black and other parentage were recorded as "black."

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[^1]:    ${ }^{1}$ National Center for Health Statistics: Plan and operation of the Health and Nutrition Examination Survey, United States, 1971-1973. Vital and Health Statistics. DHEW Pub. No. (HSM) 73-1310. Series 1, Nos. 10a and 10b. Health Services and Mental Health Administration. Washington. U.S. Government Printing Office, Feb. 1973.

[^2]:    ${ }^{2}$ National Center for Health Statistics: Weight, height, and selected body dimensions of adults, United States, 1960-1962, by H. W. Stoudt et al. Vital and Health Statistics. Series 11-No. 8. DHEW Pub. No. (HRA) 76-1074. Health Resources Administration. Washington. U.S. Government Printing Office, June 1965.

[^3]:    ${ }^{1}$ Includes all races.

[^4]:    ${ }^{1}$ A size of 3.00 was assigned for all factors greater than 3.00. The final poststratified ratio adjustment corrects for this truncation.

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