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Body Composition Data for Individuals 8 Years of Age and Older: U.S. Population, 1999–2004



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics

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Series 11, Number 250

Body Composition Data for Individuals 8 Years of Age and Older: U.S. Population, 1999–2004

Data From the Continuous
National Health and Nutrition
Examination Survey (NHANES)

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics

Hyattsville, Maryland
April 2010
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Abstract

Objectives

This report presents body composition data from whole body dual energy x-ray absorptiometry scans for persons 8 years of age and older who participated in the National Health and Nutrition Examination Survey (NHANES) 1999–2004. Valid total body measurements were obtained on 16,973 individuals. Through the use of multiple imputation, a useable sample of 22,010 individuals was achieved for analysis. Measures for the total body and regions of the body include total mass, fat mass, percentage fat, lean soft tissue (excluding bone mineral content), and fat-free mass (including bone mineral content).

Methods

Means, standard errors, and selected percentiles were calculated for the total body and for regions of the body by sex, race and ethnic, and age population subgroups. Standard errors of the mean were estimated by Taylor Series Linearization, which incorporates sample weights and accounts for the NHANES complex sample design.

Results

Females had higher percentage body fat and fat mass than males. After age 11 years, males had higher lean tissue and fat-free mass than females. Percentage body fat was lowest at ages 16–19 years among males and at ages 8–15 years among females. Among males, non-Hispanic white persons had greater fat mass than either Mexican American or non-Hispanic blacks. Among females, non-Hispanic black persons had greater fat mass than either Mexican American or non-Hispanic whites. Mexican-American males and females had less lean soft tissue than either non-Hispanic white or non-Hispanic black males and females. Among both males and females, lean soft tissue and fat-free mass were lowest at ages 8–11 years.

Keywords: National Health and Nutrition Examination Survey • percentage body fat • fat-free mass • dual energy x-ray absorptiometry

Body Composition Data for Individuals 8 Years of Age and Older: U.S. Population, 1999–2004

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Introduction

Dual energy x-ray absorptiometry (DXA) has long been accepted as the primary method for measuring bone mineral content and bone mineral density because of its high precision, accuracy, and low radiation exposure (1–4). More recently, whole body DXA has become a valuable method of measuring body composition due to its speed, ease of use, and strong correlation with criterion methods of assessing body composition (5,6). In addition, DXA has been shown to be comparable in reliability and accuracy to alternative methods of assessing body composition in defined body regions (7–9).

The assessment of body composition by DXA has taken on added importance as the prevalence of obesity in the United States over the past 40 years has increased steadily among both adults and children (10,11). In 2003–2004, 32.2% of adults 20 years and older were obese, defined as a body mass index (BMI) of 30 or greater (12). BMI is calculated as weight in kilograms over height in meters squared. Among children 2–19 years of age, 33.6% in 2003–2004 were at or above the 85th percentile of BMI for children

of the same age and sex, based on the Centers for Disease Control and Prevention (CDC) growth charts, and 17.1% were at or above the 95th percentile, based on the CDC growth charts (13).

Although BMI has been used as the standard measure of obesity in the United States and other countries (14), there are recognized limitations to the use of BMI in assessing obesity since the relationship of body fat to BMI varies with age, sex, ethnicity, and physical conditioning (15–17). In previous studies of adults and children using the same data set as reported here (18,19), BMI was found to distinguish categories of percentage fat, although small differences in percentage cutoffs used to define high adiposity for children led to large differences in the prevalence of high adiposity in intermediate BMI ranges. Because DXA assesses the proportions of fat mass and fat-free mass in the body, it can provide a more accurate measure of body fat than BMI is able to do. In 1999, the National Health and Nutrition Examination Survey (NHANES) implemented whole body DXA scans of survey participants age 8 years and older to provide nationally representative data on body composition and data to study the association between

body composition and other health conditions and risk factors, such as cardiovascular disease, diabetes, hypertension, and activity and dietary patterns.

This report presents body composition data from whole body DXA scans for persons 8 years of age and older who participated in the 1999–2004 NHANES. Measures for the total body and regions of the body include total mass, fat mass, percentage fat, lean soft tissue (excluding bone mineral content), and fat-free mass (including bone mineral content) (Tables 1–40). Measures of bone mineral content and bone mineral density are not included in this report.

Methods

NHANES are conducted by CDC, National Center for Health Statistics (NCHS). The NHANES program is comprised of a series of cross-sectional, nationally representative surveys of the health and nutrition status of the U.S. civilian noninstitutionalized population. Samples are selected through a complex, multistage probability design (20,21). Individuals identified for the survey initially are interviewed in their homes. Following the household interview, survey participants are asked to participate in the health examination component, conducted in mobile examination centers (MECs) that use standardized techniques and equipment for the collection of high-quality data. The data are released on public-use data files every 2 years. The data used for this report are from 1999–2000, 2001–2002, and 2003–2004. Public-use DXA data files and documentation can be found at the NCHS NHANES website (22).

Sample Description

In 1999–2004, low-income persons, adolescents aged 12–19 years, persons 60 years of age and older, African Americans, and Mexican Americans were oversampled to improve the precision of the statistical estimates for these groups. Participants self-reported

race and ethnicity. Survey participants aged 8 years and older were eligible for the DXA scan, with the exception of pregnant females. Participants also were excluded from the DXA examination if they reported radiographic contrast material (barium) use in the past 7 days or nuclear medicine studies in the past 3 days, or if they weighed over 300 pounds or were taller than 6'5" (physical limitations of the DXA table). Females 8–17 years of age were excluded from the DXA component in 1999 due to concerns over how to handle the reporting of pregnancy test results for minors. This issue was resolved, and starting in 2000, females 8 years of age and over received the DXA scan. Participants who were excluded from the DXA scan for reasons other than pregnancy were considered to be eligible nonrespondents.

All procedures in NHANES 1999–2004 were approved by the NCHS Ethics Review Board, and written informed consent was obtained from all participants. In 1999–2004, 31,038 individuals 6 years of age and older were selected to participate in the survey. Of these, 23,387 were interviewed and examined for a response rate of 75.3%. Of the 21,230 examined participants age 8 years of age and older who were eligible for the DXA examination, 19,040 completed DXA scans, and valid total body measurements (all regions were able to be analyzed accurately) were obtained from 16,973 or 80.0% of examined participants.

Dual Energy X-ray Absorptiometry (DXA) Component

The DXA scans were acquired with a Hologic QDR 4500A fan-beam bone densitometer (Hologic, Inc., Bedford, Massachusetts) and Hologic software version 8.26:a3*. All scans were administered by certified radiology technologists. Details of the DXA examination protocol are documented in the Body Composition Procedures Manual on the NHANES website (23). A high level of quality control was maintained throughout the DXA data

collection and scan analysis. Technologist performance was monitored through in-person observations and scan review, with feedback provided as needed. Retraining sessions were conducted annually and as needed to reinforce correct techniques and appropriate protocol. Each participant scan was reviewed and analyzed by the NHANES quality control center at the University of California, San Francisco (UCSF), Department of Radiology using standard radiologic techniques and study-specific protocols developed for the NHANES. Hologic Discovery software, version 12.1, was used to analyze the scans. The UCSF identified regions of the body that could not be analyzed accurately. Reasons for these invalid regions included:

1. Jewelry and other objects not removed.
2. Nonremovable objects (prostheses, implants, casts, etc.).
3. Excessive x-ray “noise” due to truncal adiposity, which interfered with the ability to obtain valid measurements of the trunk.
4. Arm and leg overlap.
5. Body parts out of the scan field.
6. Positioning problems.
7. Other (participant motion, missing limbs, unknown artifacts).

In all there were 3,055 invalid regions among 1,489 participants. All participant scans were reviewed by a second technologist and differences adjudicated by a supervisor.

In multisite studies such as NHANES, verification that all DXA systems perform within the expected limits is critical because data collected at the multiple sites are pooled for analysis. During the 1999–2004 DXA data collection, quality control phantoms specific to each MEC and phantoms that circulated among the MECs were scanned according to a rigorous schedule to provide cross-calibration and longitudinal monitoring. Spine phantoms specific to each MEC were scanned daily as required by the manufacturer to ensure accurate calibration of the densitometer. Mobile examination center-specific whole body and tissue step phantoms were scanned one to

three times weekly. Phantoms simulating tissue or bone are used to quantify the accuracy and precision of DXA densitometers in order to detect drift or changes in measurement accuracy over time. A set of phantoms that included a spine phantom, block phantom, and whole body phantom circulated among the MECs and was scanned at the start of operations at each survey site. Air scans, which are phantomless scans of the whole body scan field using the whole body scan mode, were used to monitor radiographic uniformity across the entire scan field. The phantom scanning schedule is described in the Body Composition Procedures Manual on the NHANES website (23). The UCSF used the cumulative statistics method and the MEC-specific phantom data to determine breaks in the calibration of the densitometers over the course of the survey (24). An evaluation was performed of the effect on the participant data of adjustment factors developed by the UCSF from cross-calibration data collected before the start of data collection in 1999 and from the cross-calibration monitoring data. The magnitude of the adjustment was determined to be insignificant and correction of the participant data not required.

Lean soft tissue and fat mass for the total body and regions were adjusted based on the results of an analysis of QDR 4500A DXA data from seven research laboratories, which indicated that the QDR 4500A algorithm underestimated fat mass and overestimated lean mass (25). Participant lean mass was decreased by 5% and an equivalent kilogram weight added to the fat mass so the total mass did not change.

The DXA scans provided soft tissue and bone mineral measurements for both arms and both legs, the trunk, and head. Values for these regions include total mass (kg), fat mass (kg), percentage body fat, lean soft tissue (excluding bone mineral content) (kg), and fat-free mass (including bone mineral content) (kg). Percentage body fat is the proportion of total mass that is fat mass. Percentage fat for a given region is the proportion of the total mass of that region that is fat mass. For example,

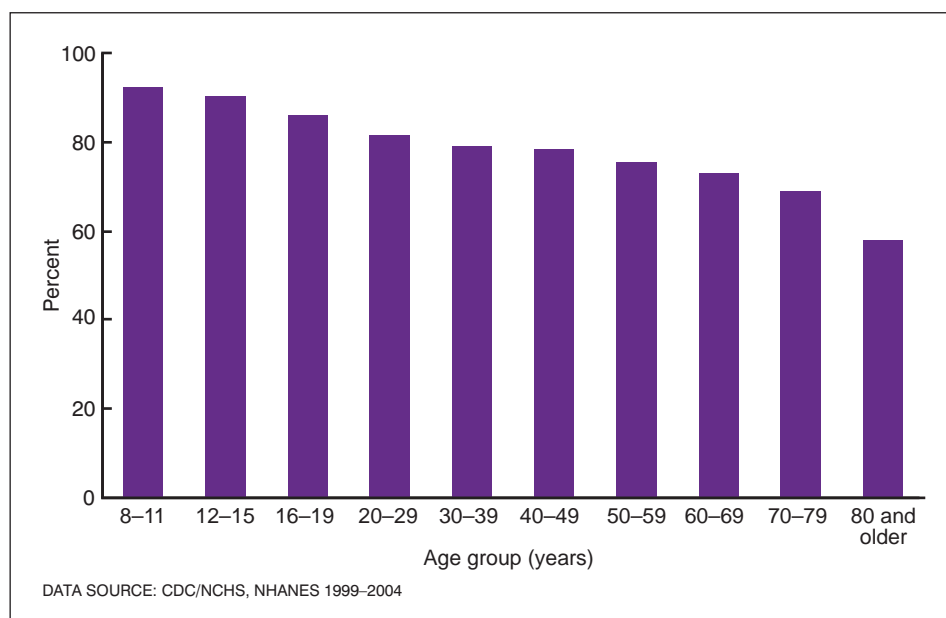


Figure 1. Percentages of DXA-eligible participants with 100 percent valid DXA data, by age: United States, 1999–2004

trunk percentage fat is the proportion of the total mass of the trunk composed of fat. Total values were calculated by summing measurements for all regions. Subtotal values were calculated by summing measurements for all regions except the head. Assessment of brain soft tissue by DXA can be prone to error because of the surrounding skull and it has been suggested that the head be excluded from total body soft tissue analysis (26).

Multiple Imputation

The percentage of DXA participants with 100% valid data was found to decrease with increasing age (Figure 1). The decrease in valid data with age was due primarily to an increase in implants such as pacemakers, stents, and hip replacements. In addition, the percentage of participants with valid data was lower at higher BMI levels, in part because of truncal adiposity (Figure 2). Because the percentage of participants with valid data decreased with increasing age and BMI, and because individuals with body weight greater than 300 pounds were not scanned, invalid and missing data could not be treated as a random subset of the data.

To address the problem of bias due to nonrandom invalid and missing data, multiple imputation of the data was

performed (27). SAS-callable imputation and variance estimation software developed by the Survey Methodology Program at the University of Michigan's Institute of Survey Research, IVEware, was used to impute the NHANES DXA data (28). The IVEware module IMPUTE performs multiple imputations of missing values using the sequential regression imputation method (29). A detailed description of the imputation procedures is provided in the Documentation for Multiple Imputation of National Health and Nutrition Examination Survey 1999–2004 Dual Energy X-Ray Absorptiometry Data on the NHANES website (30). With the exception of pregnant women, who were ineligible for the DXA exam, and participants with amputations other than fingers or toes, all invalid or missing data for participants age 8 years and older were multiply imputed. Also multiply imputed were the data missing for the females 8–17 years of age who were excluded from the DXA component in 1999. With the multiply imputed data, a complete data set was available for analysis, all measured data were used in analyses, differences between participants with complete data and those with missing data were accounted for, and a more valid assessment of the statistical reliability of an estimate was obtained.

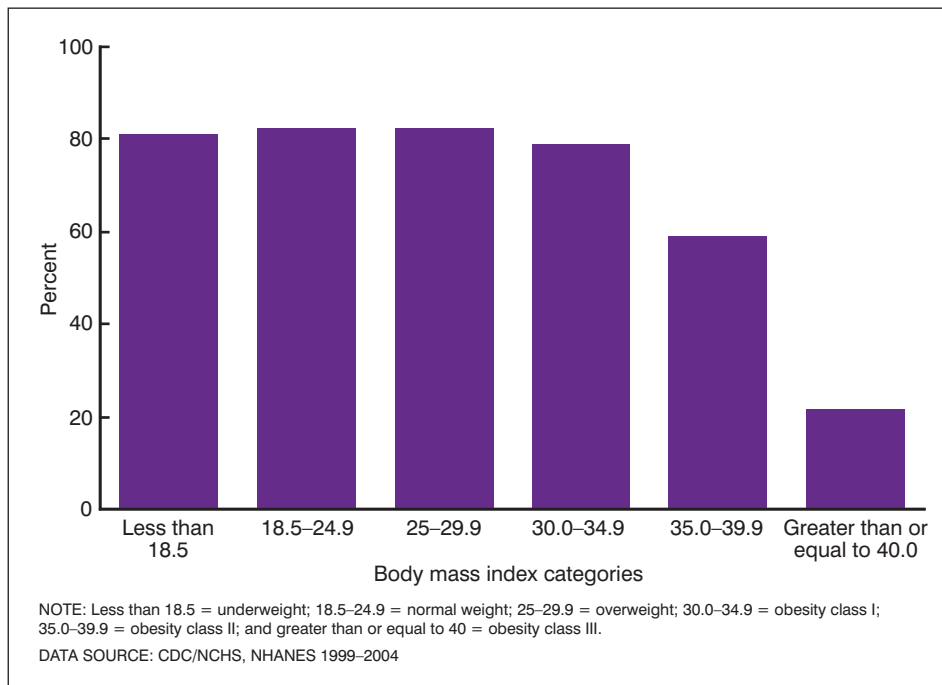


Figure 2. Percentages of DXA-eligible participants with 100 percent valid DXA data, by body mass index: United States, 1999–2004

Estimates shown in this report are based on the multiply imputed data, with the exception of data for 391 participants who were missing measured height and weight (important predictors in the imputation model) as well as all DXA data. The multiply imputed values for these participants were found to vary greatly from very low to very high among the imputations and were not included in the analysis. A useable sample of 22,010 individuals was achieved for analysis through the use of multiple imputations.

Statistical Analysis

In this report, means, standard errors, and percentiles for total mass, fat mass, percentage fat, lean soft tissue, and fat-free mass are presented by sex and age for all NHANES race and ethnic groups combined, and for the Mexican American, non-Hispanic white, and non-Hispanic black groups separately (Tables 1–40). The analytic age groups used were 8–11 years, 12–15 years, 16–19 years, 20–39 years, 40–59 years, 60–79 years, and 80 years and older.

All data analyses were performed using the statistical packages SAS version 9.2 (SAS Institute, Cary, NC) and SAS-callable SUDAAN version

10.0 (RTI, Research Triangle Park, NC). Each of the five datasets produced by the multiple imputation process was first sorted by strata and primary sampling units. The SUDAAN MI_COUNT option, when used with PROC statements, indicates the number of datasets to be analyzed and automatically performs the multiple-imputation analysis. For these analyses, MI_COUNT=5. Estimates of means, percentiles, and their variances were produced for each dataset and then averaged (30). The standard errors of the means were estimated by Taylor Series Linearization (31), a method that incorporates the sample weights and accounts for the NHANES complex sample design. Six-year MEC weights were applied to the data in order to account for differential probabilities of selection, nonresponse, and non-coverage. A relative standard error (RSE) greater than 30% was used to identify unreliable estimates (20,21). The RSE is defined as the ratio of the standard error of the estimate divided by the estimate multiplied by 100. In the tables, an estimate with an RSE greater than 30% is identified with an asterisk (*); no estimates had an RSE greater than 40%. Estimates of percentiles whose standard errors were

not able to be calculated using SUDAAN, due to small cell sizes, were omitted from the tables. Estimates of means for adults 20 years and older were age adjusted to the U.S. 2000 standard population in order to facilitate comparison between the sex and race and ethnicity subgroups (32). *T*-tests with Bonferroni adjustments for multiple comparisons were used to assess the significance of differences between point estimates. The Bonferroni adjustment is a statistical adjustment for significance across the entire analysis, performed by dividing the nominal *p* value of 0.05 for a single test by the number of comparisons performed. For this report, comparisons were made between males and females by age group (level of statistical significance $p < 0.006$), among age groups by race and ethnicity for each sex separately (level of statistical significance $p < 0.0006$), and among race and ethnic groups by age for each sex separately (level of statistical significance $p < 0.002$).

Selected Highlights

Terms such as “higher,” “lower,” and “greater” indicate a statistically significant difference.

Mean Fat Mass (Table 2, Figure 3)

- Females had higher fat mass than males at all ages.
- Among males overall and in non-Hispanic white males, fat mass was higher at ages 40–79 years than at younger ages.
- Among females overall and in Mexican-American and non-Hispanic white females, fat mass was higher at ages 40–79 years than at younger ages.
- Among males overall, non-Hispanic white males had greater fat mass than Mexican-American males and non-Hispanic black males.
- Among females overall, non-Hispanic black females had greater fat mass than Mexican-American females and non-Hispanic white females.

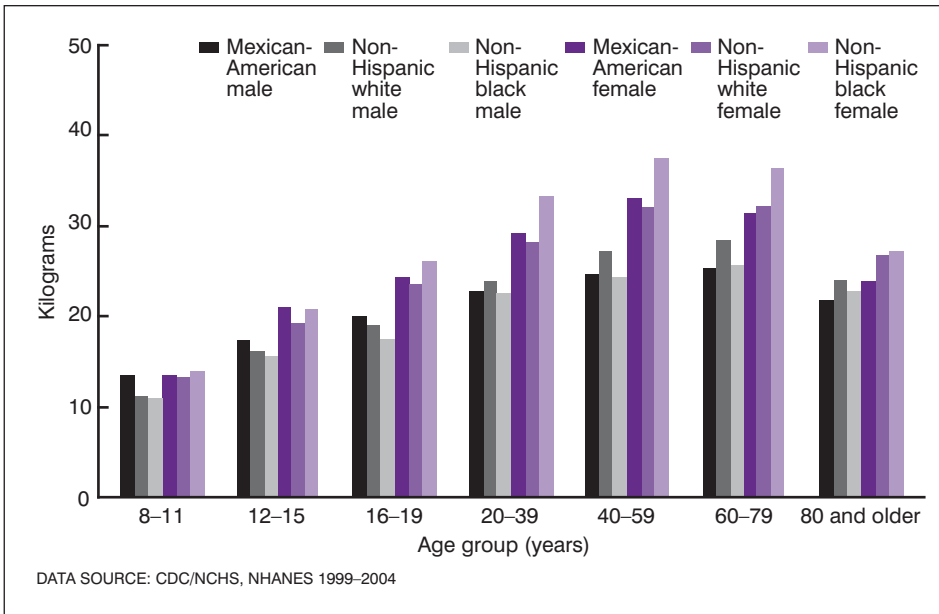


Figure 3. Mean fat mass, by age, sex, and race and ethnicity, United States 1999-2004

Mean Percentage Body Fat (Table 3, Figure 4)

- Females had higher percentage body fat than males at all ages.
- Among males overall and within each of the three male race and ethnic groups, percentage body fat was lowest at ages 16-19 years.
- Among females overall and in non-Hispanic white and non-Hispanic

black females, percentage body fat was lowest at ages 8-15 years.

- Among males overall and in non-Hispanic white and non-Hispanic black males, percentage body fat was highest at ages 60-79 years and older.
- Among females overall and in non-Hispanic white females, percentage body fat was highest at ages 60-79 years.

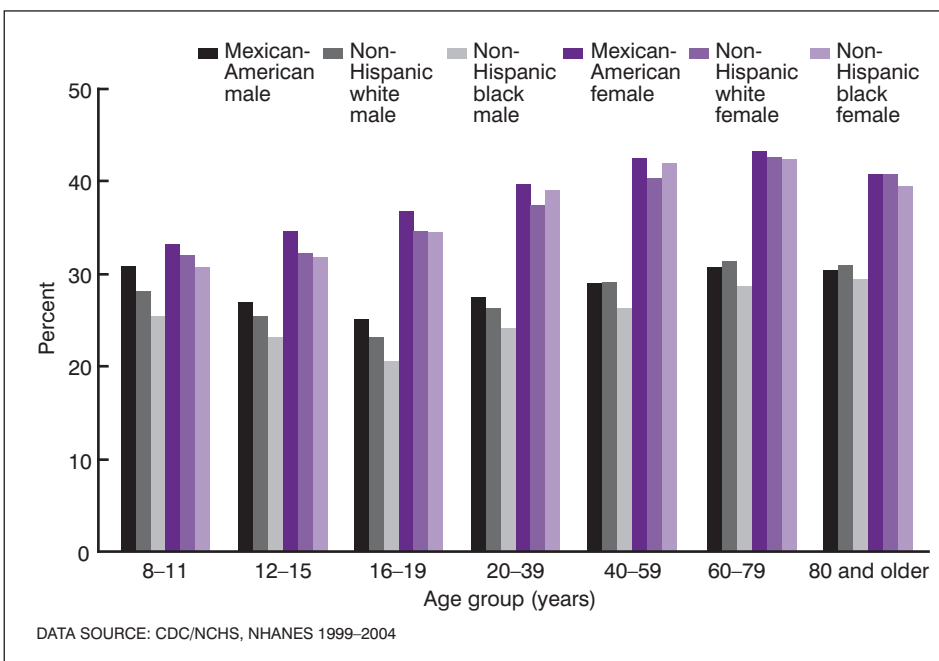


Figure 4. Mean percentage body fat, by age, sex, and race and ethnicity, United States 1999-2004

- Non-Hispanic black males had lower percentage body fat than either non-Hispanic white males or Mexican-American males from ages 8-11 years through 60-79 years. At 80 years of age and older, there were no differences in percentage body fat among the three race and ethnic groups.
- Mexican-American females had higher percentage body fat than non-Hispanic black females from ages 8-11 years through 16-19 years and higher than non-Hispanic white females from ages 12-15 years through 40-59 years. From age 60 years and older, there were no differences in percentage body fat among the three race and ethnic groups.

Mean Lean Soft Tissue (Excluding Bone Mineral Content) (Table 4, Figure 5)

- After ages 8-11 years, lean soft tissue was greater for males than for females.
- Among males overall, lean soft tissue was lower for Mexican-American males than for non-Hispanic white and non-Hispanic black males.
- Among females overall, lean soft tissue was lower for Mexican-American females than for non-Hispanic white and non-Hispanic black females.
- Among females overall, lean soft tissue was greater for non-Hispanic black females than for non-Hispanic white females.
- Among males, lean soft tissue was higher in successive age groups from 8-11 years through 20-39 years. Lean soft tissue was lower in each successive age group from 40-59 years and older.
- Among females, lean soft tissue was higher in successive age groups from 8-11 years through 12-15 years and 12-15 years through 16-19 years. Lean soft tissue was lower between ages 60-79 years and 80 years and older.

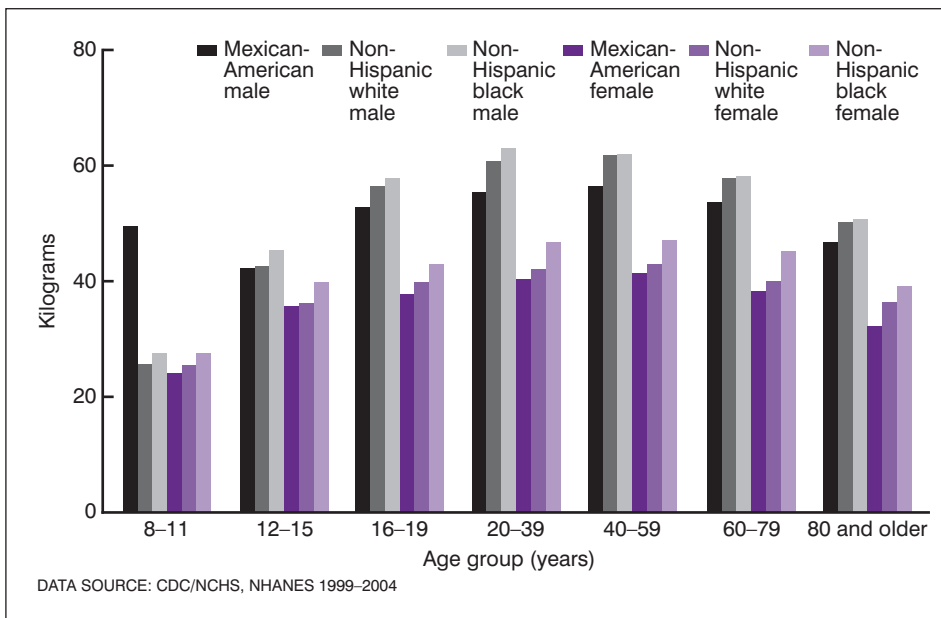


Figure 5. Mean lean soft tissue, by age, sex, and race and ethnicity, United States 1999–2004

Mean Fat-Free Mass (Including Bone Mineral Content) (Table 5, Figure 6)

- After ages 8–11 years, fat-free mass was greater for males than for females.
- Fat-free mass was lower for Mexican-American males than for non-Hispanic white or non-Hispanic black males in each successive age

group from 16–19 years through 60–79 years.

- Fat-free mass was greater for non-Hispanic black females than for non-Hispanic white and Mexican-American females in each successive age group from 8–11 years through 60–79 years.
- Among males, fat-free mass was greater in each successive age group from ages 8–11 years through 20–39 years. Fat-free mass was lower in

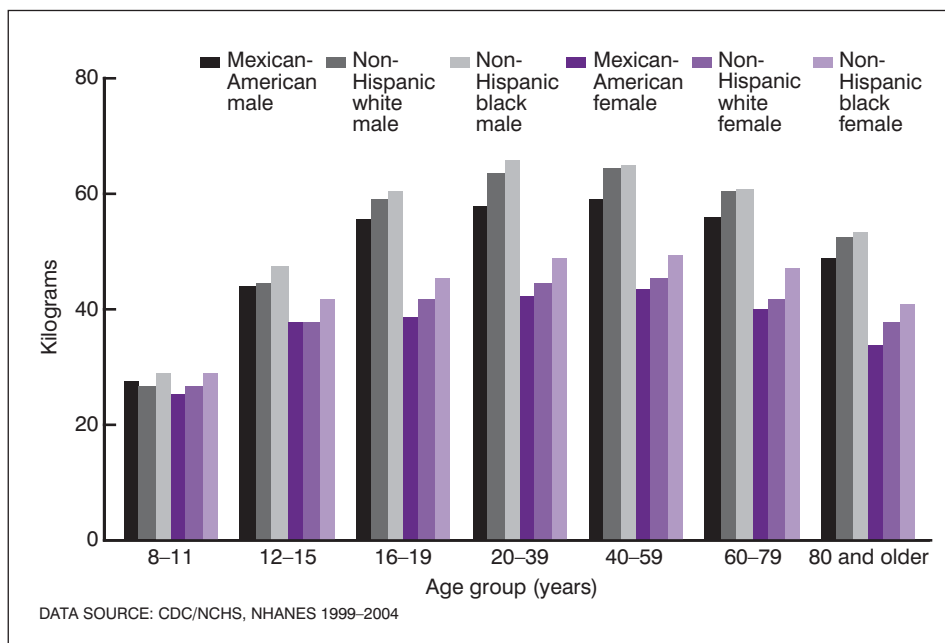


Figure 6. Mean fat-free mass by age, sex, and race and ethnicity, United States 1999–2004

each successive age group from 40–59 years and older.

- Among females, fat-free mass was greater in each successive age group from 8–11 years through 20–39 years. Fat-free mass was lower in each successive age group from 40–59 years and older.

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Table 1. Total body mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	87.3	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	87.6	0.3	61.5	66.1	69.5	74.8	84.9	97.6	105.4	111.1	122.0
Age:												
8–11 years	1,067	38.6	0.5	24.4	26.5	28.0	30.0	36.0	44.3	49.9	54.6	62.9
12–15 years	1,726	60.8	0.7	35.5	39.2	42.8	48.2	58.4	70.1	79.4	85.2	97.5
16–19 years	1,751	77.1	0.6	54.6	57.3	59.6	63.6	72.8	86.3	96.0	102.5	112.4
20–39 years	2,183	86.1	0.5	59.8	64.3	67.4	72.1	82.6	95.7	104.4	110.6	124.6
40–59 years	2,024	90.2	0.5	65.0	69.3	72.8	78.1	87.7	99.9	107.5	112.5	122.8
60–79 years	1,851	87.2	0.5	62.0	66.3	70.2	75.0	85.3	97.0	104.2	110.2	118.1
80 years and older	501	76.2	0.6	56.4	60.6	64.0	67.6	74.9	84.2	89.8	93.1	101.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	81.4	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	81.5	0.7	58.5	63.1	65.5	69.6	79.4	90.3	97.9	101.4	112.1
Age:												
8–11 years	348	40.8	0.7	24.5	26.3	27.6	30.3	36.9	48.9	54.9	59.8	69.4
12–15 years	599	61.3	0.7	35.2	40.0	43.8	49.4	58.9	71.5	79.6	84.4	93.4
16–19 years	611	75.3	0.9	53.2	56.5	58.4	61.7	70.1	85.3	93.3	100.6	111.4
20–39 years	570	80.7	1.0	57.5	61.7	64.4	68.2	78.2	90.1	98.4	101.5	113.7
40–59 years	427	83.5	0.8	61.9	66.4	69.2	73.0	81.8	90.7	96.0	101.7	111.4
60–79 years	443	81.5	0.8	61.1	64.7	66.4	71.0	79.5	90.3	96.2	100.7	110.8
80 years and older	48	70.7	1.6	52.1	58.3	60.5	64.7	68.7	76.8	80.0	82.1	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	88.8	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	89.1	0.4	63.5	68.1	71.3	76.5	86.6	98.8	106.3	111.7	122.4
Age:												
8–11 years	280	37.9	0.7	24.3	26.8	28.1	29.8	35.9	43.1	47.7	51.5	60.5
12–15 years	438	60.7	1.0	35.8	39.1	42.5	48.2	58.5	69.8	79.2	83.8	97.9
16–19 years	447	78.2	0.7	55.5	57.9	60.0	65.3	73.8	88.5	96.9	102.9	112.0
20–39 years	934	87.4	0.7	60.8	65.6	69.1	73.7	84.0	97.1	105.1	110.7	125.3
40–59 years	1,013	91.9	0.6	66.8	72.0	75.3	80.1	89.2	101.1	109.2	112.8	123.1
60–79 years	975	88.7	0.5	64.2	68.9	71.9	76.8	86.9	98.3	105.3	111.1	118.7
80 years and older	398	76.6	0.7	56.9	61.1	64.9	68.2	75.1	84.5	89.9	93.2	101.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	87.8	0.6	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	88.4	0.8	60.1	65.0	68.0	73.2	84.6	98.6	108.7	116.5	128.8
Age:												
8–11 years	359	39.7	0.7	24.9	26.8	28.8	31.2	35.9	44.9	51.8	58.7	66.3
12–15 years	566	63.0	0.7	36.6	40.4	43.4	50.1	59.7	72.2	81.2	89.0	99.8
16–19 years	551	78.0	1.1	54.5	57.4	59.1	63.3	72.0	84.4	96.1	108.0	122.4
20–39 years	450	88.6	1.2	59.4	64.6	68.0	72.2	83.3	98.5	110.0	119.2	134.2
40–59 years	435	89.2	0.9	61.3	65.8	68.9	75.0	86.8	100.0	108.8	116.3	128.0
60–79 years	324	86.6	1.0	58.1	64.2	66.8	73.0	84.7	97.5	105.4	112.2	120.2
80 years and older	36	76.1	2.6	†	53.4	62.7	67.2	75.2	80.5	86.1	95.7	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	74.7	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	74.8	0.4	50.7	54.1	56.6	60.8	71.0	84.6	93.8	100.8	112.0
Age:												
8–11 years	1,082	40.2	0.6	23.5	26.2	27.6	30.0	38.0	47.5	53.9	57.8	64.8
12–15 years	1,780	58.2	0.5	39.0	42.6	44.9	48.2	55.0	64.4	72.7	79.1	88.5
16–19 years	1,513	65.4	0.6	45.8	48.2	50.5	53.8	61.2	72.3	82.4	90.0	99.1
20–39 years	2,043	73.4	0.6	50.1	53.1	55.5	59.1	68.9	82.9	92.6	100.6	113.4
40–59 years	2,049	77.6	0.7	52.1	55.3	58.0	62.7	73.8	88.1	97.2	104.2	116.1
60–79 years	1,846	74.4	0.3	52.0	55.8	58.3	62.9	72.0	83.2	91.4	96.5	106.8
80 years and older	594	64.3	0.8	45.4	48.8	51.5	54.9	62.8	71.9	77.0	80.1	89.2

See footnotes at end of table.

Table 1. Total body mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	72.5	0.5	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	72.8	0.7	50.8	53.8	56.6	60.6	70.0	82.2	90.0	94.9	103.8
Age:												
8–11 years	342	38.6	0.7	23.5	24.8	26.6	28.5	35.2	45.9	52.3	56.9	60.9
12–15 years	632	58.6	0.7	40.4	43.1	44.7	47.9	55.2	65.5	71.9	79.8	90.3
16–19 years	533	64.0	0.7	44.7	48.0	49.8	52.5	59.6	70.7	80.3	86.3	97.2
20–39 years	492	71.4	0.9	49.4	52.6	55.4	59.4	68.5	80.7	88.9	93.4	102.3
40–59 years	442	76.3	1.1	53.3	57.0	59.3	64.1	73.2	84.6	93.4	98.7	106.8
60–79 years	457	71.4	0.8	50.7	55.1	57.3	61.1	70.0	80.1	86.4	90.7	98.1
80 years and older	47	57.6	2.2	40.4	41.5	44.5	49.8	56.6	64.1	67.3	68.4	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	74.2	0.4	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	74.2	0.5	50.8	54.2	56.6	60.6	70.4	83.5	92.8	99.2	110.0
Age:												
8–11 years	281	39.9	0.8	23.4	26.4	27.7	30.6	38.0	46.7	53.1	57.1	64.8
12–15 years	448	57.0	0.8	37.9	41.1	44.5	47.5	54.6	62.9	71.2	75.9	83.7
16–19 years	409	65.3	0.9	46.9	49.1	51.6	54.3	61.4	71.8	80.6	89.9	97.1
20–39 years	907	72.4	0.7	50.3	53.4	55.6	58.9	68.0	81.3	91.1	97.3	110.1
40–59 years	964	77.3	0.8	51.9	55.0	57.7	62.3	73.5	87.8	96.7	104.1	115.6
60–79 years	922	74.1	0.5	52.0	56.0	58.7	63.3	71.7	82.4	90.5	95.3	104.8
80 years and older	457	64.6	0.9	45.5	48.9	51.8	55.2	63.1	72.2	77.3	80.0	89.5
Non-Hispanic black:												
20 years and older, age adjusted	1,312	83.5	0.6	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	83.9	0.6	54.1	59.0	62.1	68.3	80.3	95.5	105.9	113.5	126.2
Age:												
8–11 years	373	42.8	0.8	24.8	26.8	28.7	31.6	39.8	50.6	56.7	61.3	69.8
12–15 years	558	62.7	0.9	42.5	46.0	48.1	50.7	58.5	70.7	81.1	87.1	95.7
16–19 years	435	71.2	1.2	47.4	50.0	51.7	55.1	64.0	82.7	92.7	101.9	117.9
20–39 years	455	82.5	1.1	53.1	56.8	60.2	65.6	77.8	94.9	106.1	114.5	126.8
40–59 years	453	86.9	0.9	56.5	62.2	66.5	71.2	82.6	98.8	107.0	115.2	129.8
60–79 years	346	83.5	1.2	54.7	60.0	63.7	69.8	81.8	94.6	105.0	110.6	116.0
80 years and older	58	68.0	1.8	†	52.2	54.4	58.0	68.0	75.1	82.2	87.7	90.2

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 2. Total fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
20 years and older, age adjusted	6,559	25.3	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	6,559	25.3	0.2	11.5	13.6	15.3	18.3	23.7	30.4	35.0	38.2	44.2
Age:												
8–11 years	1,067	11.5	0.3	5.0	5.5	6.0	6.8	9.0	13.9	18.0	20.7	26.6
12–15 years	1,726	16.1	0.3	6.9	7.7	8.3	9.3	12.8	20.0	25.4	29.4	36.1
16–19 years	1,751	18.7	0.4	8.2	9.2	9.9	11.1	15.0	23.6	28.9	33.8	40.8
20–39 years	2,183	23.4	0.3	10.0	11.6	13.2	15.7	21.6	28.2	33.6	37.6	43.7
40–59 years	2,024	26.5	0.3	13.1	15.6	17.3	19.9	24.8	31.7	35.6	38.7	44.7
60–79 years	1,851	27.5	0.3	14.5	16.6	18.6	21.0	26.1	32.8	36.7	40.2	45.0
80 years and older	501	23.8	0.3	13.2	15.2	16.5	19.1	22.8	28.0	31.4	33.2	37.1
Mexican American:												
20 years and older, age adjusted	1,488	23.9	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,488	23.5	0.4	11.3	13.7	15.1	17.4	22.2	27.8	31.5	33.9	39.7
Age:												
8–11 years	348	13.5	0.4	5.2	5.9	6.4	7.3	10.6	17.7	21.7	24.8	29.6
12–15 years	599	17.3	0.4	6.9	7.9	8.5	9.8	14.5	22.5	27.0	30.7	34.8
16–19 years	611	19.9	0.6	8.9	9.5	10.3	11.6	16.3	24.9	30.9	36.1	42.0
20–39 years	570	22.8	0.5	10.7	12.5	14.3	16.5	21.4	27.3	31.2	33.8	39.0
40–59 years	427	24.6	0.5	12.9	15.7	17.1	19.1	23.6	28.2	31.7	33.8	40.2
60–79 years	443	25.3	0.4	14.5	16.7	18.0	19.8	24.0	30.2	32.5	36.2	40.8
80 years and older	48	21.8	1.1	12.1	14.4	15.3	17.2	21.2	26.0	27.1	29.1	†
Non-Hispanic white:												
20 years and older, age adjusted	3,320	25.9	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,320	26.1	0.2	12.3	14.4	16.3	19.2	24.4	31.6	35.9	38.9	44.7
Age:												
8–11 years	280	11.2	0.4	5.2	5.7	6.2	6.9	8.9	13.4	17.3	20.0	26.4
12–15 years	438	16.1	0.5	6.9	7.9	8.4	9.4	13.0	19.5	24.8	28.2	36.5
16–19 years	447	19.1	0.5	8.7	9.6	10.2	11.5	15.6	24.4	29.3	33.1	39.5
20–39 years	934	23.9	0.4	10.2	12.1	13.4	15.9	22.2	28.8	34.2	37.9	43.9
40–59 years	1,013	27.3	0.4	14.3	16.6	18.4	20.7	25.5	32.6	36.6	39.7	45.4
60–79 years	975	28.3	0.3	15.3	17.7	19.4	21.6	26.9	33.4	37.3	40.7	45.5
80 years and older	398	24.0	0.4	13.3	15.2	16.7	19.3	23.0	28.3	31.6	33.3	37.2
Non-Hispanic black:												
20 years and older, age adjusted	1,245	23.8	0.3	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,245	23.7	0.4	9.2	10.9	12.3	15.2	21.7	29.3	34.6	39.5	45.9
Age:												
8–11 years	359	10.9	0.4	4.5	5.0	5.3	5.9	8.2	12.9	18.2	20.8	26.7
12–15 years	566	15.5	0.4	6.3	7.1	7.7	8.6	11.6	18.5	25.5	30.4	37.1
16–19 years	551	17.4	0.7	7.5	8.1	8.5	9.7	12.2	19.6	28.6	34.7	45.1
20–39 years	450	22.6	0.6	8.5	9.7	10.9	13.5	19.8	27.9	34.4	39.2	45.7
40–59 years	435	24.3	0.5	10.2	12.1	13.8	16.0	22.5	29.3	34.1	39.0	46.2
60–79 years	324	25.7	0.6	10.7	13.6	15.6	18.8	23.7	31.0	36.0	40.8	44.9
80 years and older	36	22.8	1.5	†	13.3	14.3	16.8	21.5	25.6	28.0	32.9	†
Female												
All race and ethnicity:												
20 years and older, age adjusted	6,532	30.7	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	6,532	30.8	0.3	14.7	17.1	18.8	21.7	28.7	37.1	42.8	47.5	55.0
Age:												
8–11 years	1,082	13.4	0.3	5.9	6.5	7.1	8.2	11.3	17.3	20.6	23.0	27.7
12–15 years	1,780	19.7	0.4	9.1	10.3	11.5	13.2	17.5	23.8	28.7	32.6	38.3
16–19 years	1,513	23.7	0.4	11.9	13.2	14.4	16.4	20.4	27.4	34.8	39.6	46.8
20–39 years	2,043	28.9	0.4	13.5	15.4	16.9	19.6	25.9	35.2	41.4	46.5	54.8
40–59 years	2,049	32.5	0.4	15.9	18.0	19.7	22.8	30.5	39.2	45.1	49.6	57.3
60–79 years	1,846	32.2	0.2	17.3	20.0	21.9	25.0	30.7	37.8	42.9	46.3	52.2
80 years and older	594	26.5	0.5	14.1	16.3	18.0	20.8	25.9	31.1	34.3	36.9	42.2

See footnotes at end of table.

Table 2. Total fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	30.7	0.3	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	30.5	0.5	16.5	18.5	20.0	22.7	28.7	36.3	41.2	44.7	50.0
Age:												
8–11 years	342	13.3	0.4	5.8	6.8	7.3	8.3	11.0	16.5	20.6	22.8	27.2
12–15 years	632	21.0	0.4	9.9	11.4	12.5	14.4	18.9	25.5	29.6	33.0	40.3
16–19 years	533	24.3	0.4	12.7	14.4	15.4	17.0	21.4	28.9	34.8	39.2	43.9
20–39 years	492	29.0	0.6	15.6	17.3	18.7	21.0	27.0	34.8	39.4	43.0	48.5
40–59 years	442	32.9	0.7	19.0	21.0	22.6	25.4	31.4	38.4	43.7	46.5	52.3
60–79 years	457	31.4	0.5	18.2	20.6	22.5	24.8	30.0	36.8	41.9	43.8	47.8
80 years and older	47	23.9	1.6	†	†	15.4	17.2	23.6	29.3	30.7	32.1	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	30.2	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	30.5	0.3	14.5	16.8	18.7	21.5	28.4	36.7	42.7	47.0	54.2
Age:												
8–11 years	281	13.3	0.4	6.1	6.6	7.3	8.3	11.2	16.4	20.0	22.5	27.8
12–15 years	448	19.1	0.6	8.9	10.0	11.1	12.9	17.1	23.0	27.9	31.4	36.7
16–19 years	409	23.4	0.6	11.9	13.2	14.6	16.8	20.3	26.7	32.9	39.3	46.2
20–39 years	907	28.1	0.5	13.4	15.2	16.4	19.3	24.7	34.4	40.3	45.0	54.0
40–59 years	964	32.1	0.5	15.3	17.5	18.9	22.1	30.4	39.4	45.2	49.1	56.8
60–79 years	922	32.1	0.3	17.7	20.2	22.0	25.2	30.8	37.7	42.6	46.0	51.7
80 years and older	457	26.7	0.6	14.1	16.3	18.2	21.0	26.0	31.4	34.5	36.9	42.4
Non-Hispanic black:												
20 years and older, age adjusted	1,312	35.1	0.4	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	35.2	0.4	15.7	18.6	21.0	25.1	32.9	42.6	50.0	54.5	62.1
Age:												
8–11 years	373	13.9	0.5	5.5	6.1	6.6	7.7	11.7	17.9	21.8	24.4	28.8
12–15 years	558	20.9	0.5	9.3	10.8	11.6	13.1	17.8	25.7	32.0	36.7	42.6
16–19 years	435	26.0	0.8	10.9	12.8	13.6	15.7	21.3	32.8	40.2	46.6	55.9
20–39 years	455	33.3	0.7	14.1	16.6	18.6	21.9	30.9	41.9	48.7	54.4	60.3
40–59 years	453	37.5	0.6	18.0	21.5	24.1	27.6	35.1	43.5	51.2	57.4	64.8
60–79 years	346	36.2	0.8	17.1	21.0	24.0	27.4	35.0	44.0	50.7	53.6	57.3
80 years and older	58	27.2	1.1	13.5	17.0	19.5	21.4	26.6	31.6	36.3	37.8	40.6

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 3. Total percentage body fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	28.1	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	28.0	0.1	17.4	19.5	21.4	24.1	28.0	32.1	34.3	35.9	38.0
Age:												
8–11 years	1,067	28.0	0.4	18.2	19.6	20.6	22.1	25.9	33.2	37.5	39.6	42.9
12–15 years	1,726	25.2	0.3	15.1	16.1	16.9	18.6	23.0	31.1	34.3	37.7	40.6
16–19 years	1,751	22.9	0.3	14.0	14.9	15.6	17.0	20.7	27.5	31.3	33.6	37.3
20–39 years	2,183	26.1	0.1	15.5	17.4	18.9	21.2	26.1	30.4	32.8	34.6	37.2
40–59 years	2,024	28.6	0.2	19.3	21.5	23.0	25.2	28.5	32.2	34.1	35.5	37.7
60–79 years	1,851	30.8	0.1	22.0	24.2	25.3	27.3	30.7	34.4	36.4	37.7	39.6
80 years and older	501	30.7	0.2	21.9	24.2	25.4	27.3	30.8	33.9	36.1	37.3	38.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	28.7	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	28.0	0.3	18.4	20.9	22.7	24.5	27.9	31.5	33.1	34.8	37.2
Age:												
8–11 years	348	30.7	0.5	19.2	20.9	22.1	23.9	29.7	37.2	40.0	41.9	44.8
12–15 years	599	26.9	0.4	15.9	17.1	18.1	20.0	25.8	32.7	36.4	38.3	40.7
16–19 years	611	24.9	0.3	15.1	16.1	17.2	19.1	23.2	29.4	33.1	35.7	39.2
20–39 years	570	27.4	0.3	17.7	19.6	21.6	23.7	27.0	30.8	32.7	34.2	36.9
40–59 years	427	28.8	0.3	20.3	22.6	24.1	25.5	28.7	31.8	33.6	35.1	37.4
60–79 years	443	30.5	0.2	22.6	24.4	25.5	27.4	30.8	33.5	35.5	36.6	38.3
80 years and older	48	30.3	1.0	21.3	22.8	23.7	27.8	31.0	33.3	34.8	35.6	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	28.3	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	28.5	0.1	18.0	20.2	22.1	24.6	28.4	32.4	34.7	36.2	38.4
Age:												
8–11 years	280	28.1	0.6	19.2	20.4	21.1	22.9	25.8	32.3	37.0	39.5	42.8
12–15 years	438	25.4	0.5	15.5	16.4	17.5	19.1	23.0	31.3	33.9	37.7	40.8
16–19 years	447	23.1	0.4	14.3	15.2	16.0	17.3	21.0	27.9	31.2	33.5	36.4
20–39 years	934	26.2	0.2	16.0	17.6	19.1	21.1	26.1	30.4	33.1	35.0	37.3
40–59 years	1,013	29.0	0.2	20.0	22.2	23.5	25.5	28.7	32.4	34.3	35.7	37.9
60–79 years	975	31.2	0.2	22.5	24.6	25.7	27.5	31.1	34.7	36.7	37.9	39.7
80 years and older	398	30.8	0.3	22.0	24.4	25.4	27.3	30.9	34.1	36.1	37.4	38.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	25.9	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	25.5	0.2	14.1	15.7	17.6	20.2	25.8	30.1	32.9	34.5	37.0
Age:												
8–11 years	359	25.3	0.4	16.1	16.8	18.0	18.9	22.9	30.1	34.5	37.7	41.5
12–15 years	566	23.1	0.3	13.8	14.7	15.1	16.3	20.3	27.5	32.9	36.8	40.7
16–19 years	551	20.4	0.4	12.7	13.3	13.8	14.7	17.3	24.5	29.4	33.5	37.6
20–39 years	450	24.0	0.3	13.4	14.3	15.3	18.3	23.6	28.8	32.1	33.9	36.2
40–59 years	435	26.1	0.3	15.4	17.5	19.1	21.7	26.4	30.0	32.5	34.4	36.7
60–79 years	324	28.6	0.3	17.7	20.1	22.2	24.9	28.7	32.7	34.8	36.4	38.7
80 years and older	36	29.4	1.1	†	21.5	22.6	24.7	29.3	32.8	36.0	36.7	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	39.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	39.9	0.2	27.6	30.5	32.4	35.4	40.5	44.7	46.8	48.4	50.4
Age:												
8–11 years	1,082	31.9	0.3	21.7	22.9	24.3	26.3	31.2	37.1	40.3	41.9	43.9
12–15 years	1,780	32.5	0.3	21.7	23.4	24.9	27.4	31.9	37.3	40.1	42.0	44.9
16–19 years	1,513	34.8	0.3	24.2	26.3	27.6	30.0	34.0	39.2	42.9	44.8	47.7
20–39 years	2,043	37.8	0.2	25.8	28.4	29.9	32.5	37.8	42.9	45.6	47.4	49.8
40–59 years	2,049	40.5	0.2	28.5	31.8	33.6	36.4	41.0	45.1	47.1	48.6	50.7
60–79 years	1,846	42.4	0.1	32.3	34.9	36.4	38.9	42.8	46.2	48.0	49.1	50.7
80 years and older	594	40.4	0.3	29.8	32.7	34.3	36.9	41.0	44.4	46.3	47.5	48.9

See footnotes at end of table.

Table 3. Total percentage body fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
Age 20 years and older, age adjusted	1,438	41.4	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,438	40.9	0.3	30.6	33.1	34.7	36.9	41.1	45.0	46.8	47.9	50.1
Age:												
8–11 years	342	33.0	0.5	23.2	24.6	25.5	27.7	32.0	37.7	40.6	43.0	45.2
12–15 years	632	34.5	0.2	23.7	26.0	27.3	29.9	34.6	38.5	41.4	43.1	45.8
16–19 years	533	36.7	0.3	26.9	28.6	30.4	32.2	36.3	40.9	43.8	45.3	47.0
20–39 years	492	39.6	0.4	29.5	31.7	33.1	35.3	39.7	43.9	45.8	47.1	48.8
40–59 years	442	42.3	0.3	34.3	36.0	36.7	39.1	42.3	45.8	47.1	48.5	50.6
60–79 years	457	43.2	0.3	34.6	36.4	37.6	40.1	43.4	46.8	48.4	49.6	51.3
80 years and older	47	40.6	1.3	†	†	32.6	35.8	41.6	46.0	47.6	48.0	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,250	39.4	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,250	39.7	0.2	27.1	30.1	32.0	35.0	40.4	44.8	46.9	48.5	50.3
Age:												
8–11 years	281	32.0	0.4	22.3	23.6	25.0	26.5	31.1	36.9	40.1	41.5	43.6
12–15 years	448	32.2	0.5	21.6	22.8	24.4	27.1	31.4	36.9	40.1	41.9	44.8
16–19 years	409	34.6	0.4	24.1	26.2	27.6	29.9	33.4	38.4	42.2	44.5	47.9
20–39 years	907	37.3	0.3	24.8	27.8	29.4	31.8	37.0	42.2	45.3	47.0	49.7
40–59 years	964	40.1	0.3	27.5	30.8	32.7	35.7	40.8	45.1	47.2	48.6	50.6
60–79 years	922	42.5	0.2	32.6	35.0	36.6	39.2	42.9	46.2	48.1	49.1	50.8
80 years and older	457	40.6	0.3	29.8	32.7	34.3	37.1	41.1	44.7	46.5	47.7	49.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,312	40.6	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,312	40.6	0.2	27.5	30.9	33.1	36.5	41.1	45.3	47.5	49.0	50.9
Age:												
8–11 years	373	30.7	0.5	19.6	21.2	22.3	24.3	30.0	36.4	40.0	42.0	43.6
12–15 years	558	31.6	0.3	20.6	22.6	23.7	25.9	30.8	36.8	40.1	42.4	44.8
16–19 years	435	34.3	0.4	21.6	24.6	26.1	28.3	33.5	40.0	44.0	45.8	48.7
20–39 years	455	38.8	0.4	25.7	28.3	30.6	33.9	39.5	44.1	46.5	48.1	50.2
40–59 years	453	41.8	0.3	30.6	33.5	35.6	38.2	42.3	45.8	48.2	49.8	51.7
60–79 years	346	42.3	0.4	30.2	34.6	36.3	38.4	43.1	47.1	48.8	49.8	51.2
80 years and older	58	39.3	0.8	28.4	30.7	33.6	36.0	39.9	42.6	44.8	45.5	†

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 4. Total lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	59.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	59.5	0.2	44.6	47.5	49.6	52.8	58.6	65.1	69.1	71.8	76.5
Age:												
8–11 years	1,067	25.9	0.2	18.1	19.3	20.3	21.7	25.2	28.9	31.5	33.7	36.5
12–15 years	1,726	42.8	0.4	25.9	28.7	31.1	34.2	42.3	50.1	53.7	57.4	61.3
16–19 years	1,751	55.7	0.3	42.6	45.0	46.4	48.9	54.5	61.4	65.2	68.4	72.1
20–39 years	2,183	59.9	0.3	44.9	47.8	49.7	52.8	58.6	65.7	69.8	72.6	78.7
40–59 years	2,024	60.9	0.3	46.6	49.7	51.7	54.3	60.4	66.3	69.9	72.5	76.7
60–79 years	1,851	57.1	0.3	43.3	45.6	47.7	50.9	56.4	62.9	66.3	69.1	72.4
80 years and older	501	50.0	0.3	38.7	41.5	43.2	45.6	49.5	54.4	56.9	59.2	62.3
Mexican American:												
Age 20 years and older, age adjusted	1,488	54.9	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	55.4	0.4	43.3	45.3	46.9	49.5	54.7	60.4	63.6	66.0	70.4
Age:												
8–11 years	348	26.2	0.4	17.7	18.9	19.6	21.2	24.9	29.4	33.4	35.0	37.4
12–15 years	599	42.1	0.5	25.9	28.9	31.5	35.2	42.0	48.7	52.3	54.6	58.4
16–19 years	611	52.9	0.4	40.6	42.9	44.6	46.6	51.4	57.9	62.4	64.3	69.3
20–39 years	570	55.3	0.6	43.1	45.1	46.5	49.1	54.5	60.6	63.6	66.1	70.8
40–59 years	427	56.4	0.4	44.5	47.1	48.6	51.1	55.7	60.5	63.9	66.4	70.5
60–79 years	443	53.7	0.4	42.5	44.4	45.6	48.0	53.2	58.4	61.6	63.8	67.7
80 years and older	48	46.7	0.7	36.7	40.8	41.1	42.7	46.8	50.0	51.7	52.9	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	60.1	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	60.2	0.2	45.9	48.6	50.8	53.7	59.5	65.8	69.4	71.9	76.3
Age:												
8–11 years	280	25.5	0.3	18.1	19.2	20.4	21.6	25.2	28.2	30.5	32.5	34.8
12–15 years	438	42.6	0.5	26.0	28.7	31.2	34.0	42.3	50.2	53.5	56.8	60.6
16–19 years	447	56.4	0.4	43.5	45.8	46.9	49.4	55.5	62.4	65.7	68.7	71.9
20–39 years	934	60.7	0.4	46.5	49.2	51.1	54.0	59.6	66.3	70.0	72.6	78.9
40–59 years	1,013	61.8	0.3	48.2	51.2	52.7	55.8	61.2	67.1	70.2	72.7	76.8
60–79 years	975	57.8	0.3	44.1	46.5	48.7	51.9	57.2	63.3	66.8	69.5	72.6
80 years and older	398	50.2	0.3	39.8	42.2	44.0	45.9	49.7	54.6	57.0	59.1	61.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	61.0	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	61.7	0.4	45.9	48.6	51.0	54.0	60.7	68.1	72.6	76.4	81.3
Age:												
8–11 years	359	27.6	0.4	18.9	20.5	21.6	23.4	26.3	30.2	33.7	36.5	40.0
12–15 years	566	45.3	0.4	27.8	30.7	33.1	37.1	45.1	52.2	56.5	60.3	64.5
16–19 years	551	57.7	0.5	43.4	45.9	47.7	50.7	56.2	62.7	67.3	70.5	75.8
20–39 years	450	62.9	0.6	47.1	49.9	51.7	54.5	61.3	69.0	74.1	78.0	85.8
40–59 years	435	62.0	0.5	45.9	49.2	51.6	55.0	61.0	68.4	72.9	75.9	80.3
60–79 years	324	58.1	0.6	43.0	45.9	47.8	50.8	57.9	63.8	68.4	70.7	74.5
80 years and older	36	50.7	1.4	†	38.6	42.2	44.9	50.2	54.6	57.3	60.8	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	41.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	41.8	0.2	31.6	33.3	34.6	36.5	40.7	45.9	49.6	52.0	56.1
Age:												
8–11 years	1,082	25.6	0.3	16.4	17.7	18.6	20.5	24.8	29.6	32.4	34.8	37.5
12–15 years	1,780	36.6	0.2	27.2	29.1	30.4	32.4	35.9	40.1	42.6	44.9	48.4
16–19 years	1,513	39.6	0.2	30.3	31.7	33.1	34.7	38.7	43.1	46.1	48.6	52.1
20–39 years	2,043	42.3	0.2	32.2	34.0	35.1	37.0	41.1	46.2	50.0	52.5	56.7
40–59 years	2,049	43.0	0.3	32.3	34.1	35.3	37.4	41.8	47.3	50.7	53.4	57.1
60–79 years	1,846	40.3	0.2	31.2	32.5	33.8	35.6	39.3	44.1	47.1	49.4	53.0
80 years and older	594	36.2	0.4	28.3	29.5	30.7	32.0	35.5	39.3	41.6	43.5	46.2

See footnotes at end of table.

Table 4. Total lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
Age 20 years and older, age adjusted	1,438	39.8	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,438	40.3	0.3	30.4	32.3	33.5	35.4	39.4	44.4	47.6	49.4	53.0
Age:												
8–11 years	342	24.1	0.4	15.9	16.9	17.5	19.2	22.6	28.3	30.9	32.7	35.6
12–15 years	632	35.8	0.3	26.5	28.6	29.5	31.4	35.0	39.2	41.2	44.4	48.5
16–19 years	533	37.7	0.3	28.8	30.3	31.3	32.8	36.5	41.2	43.6	46.8	51.2
20–39 years	492	40.3	0.4	30.3	32.5	33.7	35.4	39.4	44.1	47.5	49.5	53.1
40–59 years	442	41.3	0.4	31.6	32.6	34.1	36.1	40.5	45.9	48.5	50.1	53.7
60–79 years	457	38.2	0.3	29.8	31.1	32.2	34.0	37.8	41.8	44.3	46.3	48.9
80 years and older	47	32.2	0.7	24.6	28.0	28.4	29.1	31.7	34.2	35.9	37.3	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,250	41.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,250	41.6	0.2	31.8	33.6	34.7	36.5	40.5	45.5	49.0	51.2	54.8
Age:												
8–11 years	281	25.4	0.4	16.3	17.8	18.7	20.5	24.8	29.2	31.9	33.8	37.1
12–15 years	448	36.1	0.3	27.1	29.0	30.1	32.1	35.6	39.6	41.9	43.7	46.2
16–19 years	409	39.7	0.3	31.0	32.9	33.7	35.0	38.9	43.1	46.1	48.1	51.7
20–39 years	907	42.1	0.2	32.9	34.3	35.5	37.2	40.9	45.7	49.1	51.4	54.5
40–59 years	964	43.0	0.3	32.9	34.4	35.6	37.4	41.8	47.1	50.6	53.1	56.8
60–79 years	922	40.1	0.2	31.5	32.6	33.8	35.6	39.3	43.5	46.5	48.7	52.0
80 years and older	457	36.2	0.4	28.5	29.6	30.8	32.1	35.5	39.3	41.5	43.4	46.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,312	46.1	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,312	46.3	0.2	34.4	36.5	38.0	40.1	45.0	51.3	55.3	57.9	62.0
Age:												
8–11 years	373	27.6	0.4	17.2	19.6	20.5	22	26.4	31.7	35.5	37.4	40.5
12–15 years	558	39.8	0.4	30.5	32.2	33.4	35.1	38.6	43.6	47.0	49.1	53.1
16–19 years	435	42.9	0.4	32.4	33.8	35.1	37.1	40.8	47.3	51.2	53.3	59.4
20–39 years	455	46.7	0.5	34.6	36.9	38.1	40.1	44.7	52.3	56.9	59.3	63.4
40–59 years	453	47.0	0.3	35.0	37.4	38.5	40.9	46.1	51.1	55.2	57.5	62.4
60–79 years	346	45.1	0.4	34.3	36.1	37.1	39.1	44.6	49.4	52.8	55.6	58.9
80 years and older	58	39.1	0.9	28.4	31.5	32.5	34.8	38.9	42.6	44.6	47.6	†

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Total lean soft tissue does not include bone mineral content.

Table 5. Total fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	61.9	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	62.2	0.2	46.7	49.8	52.0	55.2	61.3	68.1	72.1	74.9	79.9
Age:												
8–11 years	1,067	27.1	0.2	19.0	20.3	21.3	22.7	26.3	30.2	32.8	35.2	38.0
12–15 years	1,726	44.7	0.4	27.2	30.0	32.6	35.8	44.2	52.4	56.1	59.9	64.1
16–19 years	1,751	58.4	0.3	44.7	47.2	48.5	51.4	57.3	64.3	68.1	71.7	75.2
20–39 years	2,183	62.6	0.3	47.1	50.2	52.2	55.4	61.2	68.6	73.0	75.7	82.1
40–59 years	2,024	63.6	0.3	48.8	52.0	54.2	56.9	63.1	69.2	72.9	75.7	80.2
60–79 years	1,851	59.7	0.3	45.4	47.7	50.1	53.2	59.1	65.7	69.2	71.9	75.5
80 years and older	501	52.3	0.3	40.6	43.6	45.3	47.7	51.8	56.9	59.8	61.8	65.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	57.4	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	57.9	0.4	45.3	47.4	49.2	51.9	57.2	63.1	66.3	68.7	73.2
Age:												
8–11 years	348	27.3	0.4	18.6	19.8	20.7	22.3	26.1	30.6	34.8	36.5	39.1
12–15 years	599	44.0	0.5	27.2	30.1	32.8	36.8	43.9	50.8	54.6	56.9	61.1
16–19 years	611	55.3	0.5	42.6	44.9	46.6	48.9	53.8	60.5	65.1	67.2	72.2
20–39 years	570	57.8	0.6	45.2	47.2	48.6	51.3	57.0	63.3	66.3	68.8	73.8
40–59 years	427	58.9	0.4	46.5	49.2	50.7	53.4	58.2	63.1	66.9	69.1	73.3
60–79 years	443	56.1	0.4	44.6	46.5	47.7	50.2	55.6	60.9	64.3	66.4	70.5
80 years and older	48	48.9	0.7	38.7	42.8	43.1	44.5	48.9	52.2	53.7	55.1	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	62.8	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	62.9	0.2	48.0	51.0	53.1	56.3	62.3	68.7	72.4	75.0	79.6
Age:												
8–11 years	280	26.7	0.3	19.0	20.2	21.4	22.7	26.2	29.4	31.9	33.8	36.5
12–15 years	438	44.5	0.6	27.2	30.0	32.6	35.5	44.1	52.5	55.9	59.4	63.4
16–19 years	447	59.1	0.4	45.5	48.0	49.2	51.7	58.3	65.2	68.9	71.8	75.1
20–39 years	934	63.5	0.4	48.9	51.5	53.5	56.6	62.4	69.3	73.2	75.7	82.1
40–59 years	1,013	64.5	0.3	50.3	53.5	55.1	58.4	64.1	70.0	73.3	75.9	80.2
60–79 years	975	60.4	0.3	46.3	48.7	51.1	54.4	59.8	66.4	69.8	72.3	75.8
80 years and older	398	52.6	0.3	41.7	44.1	46.1	48.0	52.0	57.1	59.8	61.7	64.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	64.0	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	64.7	0.4	48.3	51.1	53.4	56.8	63.6	71.3	75.8	79.6	84.7
Age:												
8–11 years	359	28.8	0.4	19.9	21.5	22.6	24.6	27.6	31.6	35.1	38.1	41.6
12–15 years	566	47.4	0.4	29.1	32.2	34.6	38.8	47.1	54.8	59.0	62.9	67.1
16–19 years	551	60.5	0.6	45.7	48.3	50.0	53.3	59.0	65.6	70.6	74.1	79.4
20–39 years	450	66.0	0.6	49.7	52.4	54.4	57.2	64.3	72.2	77.6	81.6	89.4
40–59 years	435	64.9	0.5	48.4	51.7	54.0	57.8	63.8	71.4	76.2	79.0	83.6
60–79 years	324	60.9	0.6	45.2	48.3	50.3	53.4	60.9	66.9	71.5	74.0	77.9
80 years and older	36	53.3	1.4	†	40.7	44.3	46.9	52.8	57.4	60.4	64.1	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	44.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	43.9	0.2	33.2	35.1	36.4	38.5	42.8	48.1	51.9	54.3	58.5
Age:												
8–11 years	1,082	26.8	0.3	17.2	18.6	19.6	21.5	25.9	30.9	33.9	36.3	39.2
12–15 years	1,780	38.4	0.2	28.6	30.5	31.9	34.0	37.8	42.0	44.7	47.1	50.8
16–19 years	1,513	41.7	0.2	32.0	33.5	34.9	36.7	40.8	45.4	48.4	50.8	54.8
20–39 years	2,043	44.5	0.2	34.0	35.8	37.1	39.0	43.2	48.5	52.4	55.1	59.2
40–59 years	2,049	45.1	0.3	34.0	36.0	37.2	39.3	44.0	49.5	53.2	56.0	59.6
60–79 years	1,846	42.1	0.2	32.8	34.2	35.5	37.2	41.1	46.2	49.1	51.6	55.2
80 years and older	594	37.8	0.4	29.5	30.9	32.1	33.5	37.0	41.1	43.5	45.3	48.3

See footnotes at end of table.

Table 5. Total fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
Age 20 years and older, age adjusted	1,438	41.8	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,438	42.3	0.3	32.1	34.0	35.3	37.2	41.4	46.5	49.7	51.7	55.3
Age:												
8–11 years	342	25.2	0.4	16.8	17.7	18.4	20.2	23.7	29.5	32.3	34.2	37.2
12–15 years	632	37.6	0.3	28.0	30.1	31.2	33.1	36.7	41.2	43.2	46.4	50.6
16–19 years	533	39.7	0.3	30.4	31.9	33.0	34.6	38.4	43.2	45.8	48.8	53.8
20–39 years	492	42.3	0.4	32.0	34.3	35.6	37.4	41.6	46.3	49.6	51.8	55.5
40–59 years	442	43.3	0.4	33.3	34.4	35.9	38.1	42.5	48.1	50.7	52.3	55.8
60–79 years	457	39.9	0.3	31.2	32.6	33.7	35.6	39.5	43.6	46.2	48.2	50.9
80 years and older	47	33.6	0.8	25.7	29.0	29.6	30.4	32.9	35.7	37.3	38.7	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,250	43.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,250	43.7	0.2	33.4	35.5	36.6	38.5	42.6	47.7	51.4	53.6	57.2
Age:												
8–11 years	281	26.6	0.4	17.0	18.7	19.7	21.4	25.9	30.6	33.2	35.2	38.7
12–15 years	448	37.9	0.3	28.4	30.4	31.6	33.7	37.4	41.6	44.0	45.7	48.5
16–19 years	409	41.8	0.3	32.7	34.6	35.5	37.0	40.9	45.4	48.4	50.5	54.1
20–39 years	907	44.3	0.2	34.7	36.2	37.4	39.2	43.1	47.9	51.6	54.0	57.0
40–59 years	964	45.1	0.3	34.8	36.4	37.5	39.4	43.9	49.4	53.1	55.4	59.3
60–79 years	922	42.0	0.2	33.0	34.2	35.6	37.2	41.1	45.5	48.6	50.9	54.2
80 years and older	457	37.8	0.4	29.9	31.0	32.3	33.6	37.0	41.1	43.3	45.2	47.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,312	48.4	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,312	48.7	0.2	36.4	38.5	40.0	42.2	47.3	53.6	57.9	60.4	64.7
Age:												
8–11 years	373	28.9	0.4	18.1	20.6	21.5	23.1	27.5	33.1	37.0	39.1	42.3
12–15 years	558	41.8	0.4	31.9	33.9	35.1	36.9	40.6	45.8	49.2	51.6	55.7
16–19 years	435	45.2	0.4	34.3	35.8	37.1	39.2	43.1	49.7	53.8	56.2	62.0
20–39 years	455	49.1	0.5	36.6	38.9	40.1	42.3	47.1	55.0	59.5	61.9	66.4
40–59 years	453	49.4	0.4	37.0	39.3	40.5	43.2	48.5	53.6	57.9	60.1	64.9
60–79 years	346	47.2	0.5	35.9	37.7	39.0	41.1	46.7	51.6	55.2	58.0	61.6
80 years and older	58	40.8	0.9	29.6	33.0	33.9	36.3	40.8	44.5	46.5	49.6	52.0

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Total fat-free mass includes bone mineral content.

Table 6. Subtotal mass (total mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	82.2	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	82.4	0.3	56.9	61.4	64.7	69.9	79.8	92.3	99.9	105.4	116.1
Age:												
8–11 years	1,067	34.7	0.5	20.9	23.0	24.4	26.4	32.2	40.2	45.7	50.1	58.2
12–15 years	1,726	56.4	0.6	31.6	35.1	38.7	43.9	53.9	65.2	74.4	79.9	92.0
16–19 years	1,751	72.1	0.6	50.2	52.8	55.0	58.9	67.9	80.9	90.3	96.9	106.9
20–39 years	2,183	80.9	0.5	55.2	59.6	62.6	67.3	77.5	90.4	98.9	104.9	118.8
40–59 years	2,024	84.9	0.5	60.4	64.6	68.0	73.1	82.5	94.5	102.0	106.9	117.0
60–79 years	1,851	82.1	0.5	57.6	61.7	65.7	70.3	80.3	91.5	98.9	104.7	112.3
80 years and older	501	71.4	0.6	52.1	56.2	59.6	63.0	70.0	79.2	84.9	88.3	95.9
Mexican American:												
Age 20 years and older, age adjusted	1,488	76.3	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	76.4	0.7	54.0	58.5	60.8	64.8	74.3	85.1	92.2	96.0	106.0
Age:												
8–11 years	348	36.8	0.7	20.9	22.7	23.9	26.5	33.1	45.0	50.5	55.7	64.5
12–15 years	599	56.8	0.7	31.5	36.3	39.9	45.1	54.3	66.6	74.8	79.4	88.5
16–19 years	611	70.4	0.9	48.9	51.9	53.8	57.1	65.4	80.0	87.8	95.1	105.6
20–39 years	570	75.6	1.0	52.9	57.2	59.7	63.5	73.3	84.8	92.7	96.1	107.7
40–59 years	427	78.5	0.8	57.1	61.5	64.4	68.3	76.5	85.7	90.7	96.6	105.5
60–79 years	443	76.4	0.8	56.7	59.8	61.7	66.0	74.5	84.6	91.0	95.1	105.0
80 years and older	48	65.9	1.6	48.1	55.8	55.9	59.9	64.1	72.0	74.9	76.5	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	83.6	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	83.9	0.4	58.9	63.4	66.5	71.5	81.4	93.4	100.8	106.0	116.4
Age:												
8–11 years	280	34.0	0.7	20.9	23.2	24.6	26.2	32.0	39.0	43.4	47.2	56.1
12–15 years	438	56.3	1.0	32.0	35.1	38.6	44.1	54.1	64.9	74.0	78.9	92.2
16–19 years	447	73.2	0.7	51.1	53.4	55.7	60.7	69.0	83.3	91.8	97.4	106.6
20–39 years	934	82.3	0.7	56.3	60.8	64.2	68.9	78.9	91.7	99.6	105.1	119.3
40–59 years	1,013	86.6	0.6	62.2	67.2	70.5	75.1	83.9	95.6	103.4	107.3	117.2
60–79 years	975	83.6	0.5	59.8	64.3	67.2	71.9	81.7	92.8	99.7	105.5	113.0
80 years and older	398	71.8	0.7	52.9	56.9	60.1	63.8	70.3	79.5	85.1	88.3	95.2
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	82.4	0.6	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	83.0	0.7	55.6	60.2	63.3	68.2	79.2	93.0	102.8	110.6	122.8
Age:												
8–11 years	359	35.7	0.7	21.4	23.2	25.0	27.4	31.8	41.0	47.3	53.8	61.6
12–15 years	566	58.3	0.7	32.7	36.3	39.3	45.8	55.2	67.3	75.9	83.5	94.4
16–19 years	551	72.8	1.1	49.9	52.7	54.6	58.6	66.8	79.0	90.3	102.4	116.5
20–39 years	450	83.2	1.2	54.6	59.8	63.4	67.1	78.0	92.8	103.9	112.9	128.0
40–59 years	435	83.9	0.9	56.7	61.0	64.2	69.7	81.1	94.2	102.8	109.5	121.7
60–79 years	324	81.2	1.0	53.7	59.1	62.2	68.0	79.5	92.0	99.4	105.8	113.9
80 years and older	36	71.2	2.5	†	†	58.1	62.6	69.9	75.0	80.7	90.8	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	70.3	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	70.4	0.4	46.7	50.0	52.6	56.7	66.7	80.0	89.2	96.1	107.0
Age:												
8–11 years	1,082	36.5	0.6	20.3	22.9	24.3	26.5	34.3	43.6	49.7	53.5	60.6
12–15 years	1,780	54.0	0.5	35.4	38.9	41.0	44.2	50.8	60.1	68.3	74.4	83.8
16–19 years	1,513	61.1	0.6	42.0	44.3	46.4	49.8	56.8	67.8	77.7	85.2	94.0
20–39 years	2,043	69.0	0.6	46.0	49.0	51.2	55.1	64.5	78.3	87.7	95.7	107.9
40–59 years	2,049	73.2	0.7	48.0	51.2	54.0	58.4	69.4	83.6	92.7	99.7	111.5
60–79 years	1,846	70.1	0.3	47.9	51.7	54.3	58.7	67.7	78.6	86.7	91.9	102.0
80 years and older	594	60.2	0.8	41.9	45.1	47.6	50.8	58.8	67.8	72.8	75.9	84.9

See footnotes at end of table.

Table 6. Subtotal mass (total mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
Age 20 years and older, age adjusted	1,438	68.1	0.5	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,438	68.4	0.7	46.6	49.9	52.4	56.3	65.5	77.6	85.4	89.9	98.7
Age:												
8–11 years	342	34.9	0.7	20.1	21.6	23.3	25.1	31.5	41.8	48.1	52.7	56.5
12–15 years	632	54.4	0.7	36.6	39.3	41.0	43.9	51.0	61.1	67.6	75.2	85.4
16–19 years	533	59.7	0.7	40.7	44.0	45.5	48.4	55.4	66.1	75.7	81.9	92.3
20–39 years	492	66.9	0.9	45.3	48.3	51.3	55.0	64.2	76.2	84.4	88.6	97.0
40–59 years	442	71.9	1.0	49.3	52.6	55.1	60.0	69.0	80.2	88.7	94.1	102.4
60–79 years	457	67.0	0.8	46.8	51.0	53.2	56.9	65.6	75.8	81.6	85.8	93.3
80 years and older	47	53.7	2.2	36.7	37.7	41.0	46.1	53.0	60.0	63.2	64.7	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,250	69.8	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,250	69.9	0.4	46.9	50.2	52.6	56.6	66.2	79.2	88.2	94.6	105.4
Age:												
8–11 years	281	36.2	0.8	20.2	23.1	24.5	27.4	34.4	42.8	49.0	53.0	60.6
12–15 years	448	53.0	0.8	34.4	37.3	40.7	43.8	50.6	58.6	66.8	71.6	78.9
16–19 years	409	61.1	0.8	43.1	45.1	47.7	50.2	57.1	67.5	75.9	85.2	92.5
20–39 years	907	68.1	0.7	46.2	49.5	51.7	54.8	63.6	76.7	86.5	92.7	105.5
40–59 years	964	72.9	0.8	48.0	50.9	53.6	58.0	69.1	83.3	91.9	99.5	110.6
60–79 years	922	69.9	0.5	48.1	52.1	54.7	59.4	67.4	78.1	85.8	90.7	100.2
80 years and older	457	60.6	0.9	42.0	45.2	47.9	51.2	59.0	68.1	72.9	75.8	85.3
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,312	78.7	0.6	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,312	79.1	0.6	50.0	54.8	57.7	63.7	75.6	90.6	100.7	108.3	120.7
Age:												
8–11 years	373	38.9	0.8	21.4	23.4	25.4	27.9	36.0	46.4	52.5	57.0	65.2
12–15 years	558	58.3	0.8	38.7	42.0	44.2	46.6	54.0	65.9	76.1	82.3	90.4
16–19 years	435	66.6	1.2	43.3	45.6	47.5	50.6	59.3	77.7	87.9	96.9	112.0
20–39 years	455	77.6	1.1	49.0	52.4	55.8	61.1	73.2	90.1	100.8	109.1	120.8
40–59 years	453	82.1	0.9	52.5	57.9	62.1	66.7	77.9	93.6	101.9	110.3	123.8
60–79 years	346	78.7	1.1	50.4	55.5	59.2	65.0	77.2	89.5	100.2	105.6	110.9
80 years and older	58	63.6	1.8	†	48.2	50.4	53.7	63.0	70.6	77.4	83.0	84.6

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 7. Subtotal fat mass (total fat mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	24.1	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	24.1	0.2	10.4	12.5	14.2	17.2	22.5	29.2	33.7	36.9	42.8
Age:												
8–11 years	1,067	10.5	0.3	4.2	4.6	5.1	5.9	8.1	13.0	17.1	19.7	25.4
12–15 years	1,726	15.0	0.3	5.9	6.7	7.3	8.3	11.7	18.8	24.3	28.1	34.9
16–19 years	1,751	17.5	0.4	7.1	8.1	8.7	10.0	13.8	22.3	27.6	32.4	39.3
20–39 years	2,183	22.2	0.3	8.8	10.5	12.1	14.5	20.4	27.0	32.2	36.3	42.4
40–59 years	2,024	25.3	0.3	12.1	14.5	16.1	18.7	23.5	30.4	34.3	37.3	43.3
60–79 years	1,851	26.3	0.3	13.4	15.5	17.4	19.9	24.9	31.5	35.3	38.9	43.5
80 years and older	501	22.7	0.3	12.1	14.1	15.5	17.9	21.6	26.9	30.2	32.0	35.9
Mexican American:												
Age 20 years and older, age adjusted	1,488	22.7	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	22.3	0.4	10.2	12.5	14.0	16.3	21.0	26.5	30.2	32.6	38.2
Age:												
8–11 years	348	12.5	0.4	4.3	5.0	5.5	6.5	9.6	16.6	20.7	23.7	28.5
12–15 years	599	16.2	0.4	5.9	7.1	7.6	8.7	13.4	21.3	25.7	29.5	33.5
16–19 years	611	18.8	0.5	7.8	8.4	9.3	10.5	15.1	23.6	29.6	34.7	40.7
20–39 years	570	21.6	0.5	9.7	11.4	13.2	15.4	20.2	26.0	29.9	32.4	37.7
40–59 years	427	23.4	0.5	11.9	14.7	16.0	17.9	22.4	26.9	30.3	32.5	38.9
60–79 years	443	24.1	0.4	13.4	15.5	16.8	18.6	22.8	28.9	31.2	34.9	39.3
80 years and older	48	20.6	1.1	11.0	13.3	14.2	16.2	20.0	24.8	25.9	28.0	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	24.7	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	24.9	0.2	11.3	13.2	15.2	18.1	23.2	30.3	34.5	37.5	43.2
Age:												
8–11 years	280	10.3	0.4	4.3	4.9	5.3	6.0	8.0	12.5	16.3	19.0	25.2
12–15 years	438	15.1	0.5	6.1	7.0	7.4	8.4	11.9	18.3	23.7	27.0	35.3
16–19 years	447	17.9	0.5	7.6	8.5	9.1	10.4	14.5	23.1	28.0	31.9	38.0
20–39 years	934	22.6	0.4	9.1	11.0	12.3	14.7	21.0	27.5	32.8	36.5	42.6
40–59 years	1,013	26.0	0.4	13.1	15.5	17.3	19.5	24.3	31.2	35.2	38.4	44.0
60–79 years	975	27.0	0.3	14.2	16.6	18.3	20.5	25.6	32.2	36.0	39.3	44.1
80 years and older	398	22.9	0.4	12.2	14.2	15.6	18.1	21.8	27.1	30.4	32.1	35.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	22.5	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	22.4	0.4	8.1	9.8	11.1	14.0	20.4	27.9	33.3	38.1	44.4
Age:												
8–11 years	359	9.9	0.4	3.6	4.1	4.4	5.0	7.2	11.9	17.0	19.8	25.7
12–15 years	566	14.4	0.4	5.3	6.1	6.6	7.6	10.4	17.3	24.4	29.0	35.7
16–19 years	551	16.1	0.7	6.4	6.9	7.4	8.5	11.0	18.4	27.3	33.4	43.7
20–39 years	450	21.3	0.6	7.4	8.6	9.7	12.3	18.5	26.6	33.1	37.8	44.2
40–59 years	435	23.0	0.5	9.1	11.0	12.7	14.9	21.2	28.0	32.7	37.5	44.7
60–79 years	324	24.4	0.5	9.6	12.5	14.4	17.6	22.4	29.7	34.4	39.4	43.4
80 years and older	36	21.6	1.4	†	12.2	13.2	15.7	20.3	24.4	26.8	31.7	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	29.7	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	29.8	0.3	13.8	16.1	17.9	20.7	27.7	36.0	41.7	46.3	53.8
Age:												
8–11 years	1,082	12.5	0.3	5.1	5.7	6.3	7.4	10.5	16.3	19.6	21.9	26.5
12–15 years	1,780	18.7	0.4	8.2	9.4	10.6	12.3	16.5	22.8	27.6	31.5	37.2
16–19 years	1,513	22.7	0.4	11.0	12.2	13.5	15.5	19.4	26.4	33.8	38.4	45.7
20–39 years	2,043	27.8	0.4	12.6	14.4	16.0	18.6	24.9	34.2	40.2	45.3	53.6
40–59 years	2,049	31.4	0.4	14.9	17.0	18.8	21.8	29.4	38.1	44.0	48.5	56.1
60–79 years	1,846	31.1	0.2	16.4	19.0	21.0	24.1	29.7	36.6	41.8	45.3	51.0
80 years and older	594	25.5	0.5	13.2	15.4	17.1	19.9	25.0	30.1	33.3	35.8	41.1

See footnotes at end of table.

Table 7. Subtotal fat mass (total fat mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
Age 20 years and older, age adjusted	1,438	29.6	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,438	29.4	0.5	15.5	17.5	19.0	21.6	27.7	35.2	40.0	43.6	48.7
Age:												
8–11 years	342	12.4	0.4	5.0	6.0	6.4	7.4	10.1	15.5	19.6	21.8	26.1
12–15 years	632	20.0	0.4	9.1	10.5	11.6	13.5	17.9	24.6	28.5	31.9	39.1
16–19 years	533	23.3	0.4	11.8	13.5	14.4	16.1	20.4	27.9	33.7	38.1	42.7
20–39 years	492	28.0	0.6	14.6	16.3	17.8	19.9	26.0	33.6	38.3	41.9	47.3
40–59 years	442	31.9	0.7	18.1	20.0	21.6	24.4	30.4	37.3	42.5	45.2	51.1
60–79 years	457	30.3	0.5	17.2	19.7	21.5	23.7	29.0	35.7	40.7	42.7	46.4
80 years and older	47	22.9	1.5	†	†	14.5	16.3	22.7	28.3	29.8	31.2	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,250	29.2	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,250	29.5	0.3	13.6	15.9	17.7	20.5	27.4	35.6	41.6	45.9	53.1
Age:												
8–11 years	281	12.4	0.4	5.4	5.8	6.5	7.5	10.4	15.5	19.0	21.5	26.6
12–15 years	448	18.1	0.6	8.0	9.1	10.2	12.0	16.2	22.0	26.9	30.3	35.5
16–19 years	409	22.4	0.6	11.0	12.2	13.7	15.8	19.3	25.7	31.9	38.2	45.2
20–39 years	907	27.1	0.5	12.4	14.2	15.4	18.4	23.8	33.3	39.2	43.9	52.8
40–59 years	964	31.1	0.5	14.3	16.6	18.0	21.1	29.3	38.2	44.1	48.0	55.6
60–79 years	922	31.1	0.3	16.8	19.3	21.1	24.2	29.7	36.6	41.6	44.8	50.5
80 years and older	457	25.8	0.6	13.2	15.5	17.2	20.0	25.1	30.4	33.5	35.9	41.3
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,312	33.9	0.4	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,312	34.1	0.4	14.7	17.6	20.0	24.0	31.8	41.4	48.7	53.3	60.7
Age:												
8–11 years	373	13.0	0.5	4.7	5.3	5.7	6.8	10.7	16.9	20.8	23.2	27.6
12–15 years	558	19.8	0.5	8.3	9.8	10.7	12.1	16.7	24.7	30.8	35.5	41.4
16–19 years	435	24.9	0.8	9.9	11.8	12.6	14.7	20.2	31.6	39.0	45.4	54.6
20–39 years	455	32.2	0.7	13.1	15.5	17.5	20.8	29.8	40.6	47.5	53.2	59.1
40–59 years	453	36.3	0.6	17.0	20.5	23.1	26.5	34.1	42.3	49.9	56.1	63.5
60–79 years	346	35.1	0.8	16.0	20.0	22.8	26.4	33.8	42.8	49.5	52.4	56.0
80 years and older	58	26.1	1.1	12.6	16.0	18.5	20.4	25.6	30.5	35.4	36.6	39.4

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 8. Subtotal percentage body fat (total percentage body fat excluding the head) for examined persons 8 years of age and older by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	28.4	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	28.3	0.1	16.9	19.3	21.2	24.1	28.3	32.6	34.9	36.5	38.8
Age:												
8–11 years	1,067	28.4	0.4	17.5	19.0	20.1	21.9	26.2	34.1	38.7	40.8	44.3
12–15 years	1,726	25.2	0.3	14.3	15.4	16.3	18.1	22.9	31.7	35.0	38.6	41.7
16–19 years	1,751	22.7	0.3	13.1	14.3	15.0	16.5	20.5	27.7	31.7	34.2	38.0
20–39 years	2,183	26.2	0.2	14.9	17.0	18.6	21.1	26.2	30.8	33.3	35.2	37.9
40–59 years	2,024	28.9	0.2	19.0	21.4	23.0	25.3	28.8	32.7	34.6	36.2	38.4
60–79 years	1,851	31.2	0.1	21.8	24.2	25.5	27.5	31.1	35.0	37.1	38.4	40.3
80 years and older	501	31.2	0.2	21.8	24.3	25.5	27.6	31.3	34.6	36.8	38.1	39.7
Mexican American:												
20 years and older, age adjusted	1,488	29.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,488	28.3	0.3	18.0	20.7	22.6	24.5	28.2	31.9	33.7	35.4	38.0
Age:												
8–11 years	348	31.3	0.5	18.7	20.5	21.9	23.9	30.4	38.5	41.1	43.3	46.3
12–15 years	599	27.0	0.5	15.2	16.6	17.5	19.7	26.0	33.4	37.3	39.2	41.7
16–19 years	611	24.9	0.3	14.3	15.6	16.7	18.8	23.2	29.7	33.6	36.4	40.0
20–39 years	570	27.5	0.3	17.2	19.3	21.4	23.7	27.3	31.2	33.2	34.8	37.6
40–59 years	427	29.1	0.4	20.0	22.5	24.1	25.6	29.0	32.2	34.2	35.7	38.1
60–79 years	443	30.9	0.2	22.5	24.5	25.7	27.6	31.3	34.1	36.2	37.3	39.2
80 years and older	48	30.7	1.0	21.2	22.7	23.8	28.0	31.5	33.9	35.6	36.3	†
Non-Hispanic white:												
20 years and older, age adjusted	3,320	28.6	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,320	28.7	0.1	17.6	19.9	22.0	24.7	28.7	32.9	35.3	36.8	39.1
Age:												
8–11 years	280	28.4	0.6	18.6	19.9	20.7	22.7	26.0	33.3	38.1	40.7	44.2
12–15 years	438	25.5	0.5	14.8	15.7	16.9	18.6	22.9	31.8	34.6	38.6	41.8
16–19 years	447	23.0	0.4	13.6	14.6	15.5	16.8	20.8	28.1	31.5	34.1	37.0
20–39 years	934	26.3	0.2	15.4	17.2	18.8	20.9	26.3	30.7	33.6	35.5	38.0
40–59 years	1,013	29.3	0.2	19.8	22.2	23.5	25.7	29.0	32.9	34.8	36.3	38.6
60–79 years	975	31.6	0.2	22.4	24.6	25.9	27.8	31.5	35.3	37.5	38.6	40.5
80 years and older	398	31.3	0.3	21.9	24.5	25.6	27.5	31.4	34.7	36.9	38.2	39.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	26.0	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	25.6	0.2	13.4	15.1	17.1	20.0	25.9	30.5	33.4	35.0	37.7
Age:												
8–11 years	359	25.3	0.5	15.0	15.8	17.2	18.2	22.7	30.8	35.5	38.9	42.9
12–15 years	566	23.0	0.3	12.8	13.8	14.3	15.6	19.9	27.8	33.8	37.5	41.5
16–19 years	551	20.1	0.4	11.8	12.5	12.9	14.0	16.7	24.6	29.8	34.1	38.2
20–39 years	450	23.9	0.3	12.5	13.6	14.7	18.0	23.6	29.2	32.5	34.4	36.8
40–59 years	435	26.2	0.3	14.8	17.0	18.8	21.6	26.6	30.4	33.1	35.0	37.3
60–79 years	324	28.9	0.3	17.2	19.8	22.1	25.0	29.1	33.2	35.4	37.1	39.5
80 years and older	36	29.7	1.1	†	21.4	22.6	24.8	29.6	33.4	36.8	37.4	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	40.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	40.9	0.2	28.0	31.1	33.2	36.3	41.6	46.0	48.1	49.6	51.6
Age:												
8–11 years	1,082	32.7	0.3	21.4	22.8	24.3	26.6	32.0	38.5	41.6	43.4	45.5
12–15 years	1,780	33.1	0.3	21.4	23.4	25.1	27.7	32.6	38.2	41.2	43.2	46.2
16–19 years	1,513	35.6	0.3	24.3	26.6	28.0	30.5	34.7	40.3	44.0	45.9	48.9
20–39 years	2,043	38.7	0.2	26.0	28.9	30.4	33.2	38.8	44.0	46.8	48.5	51.0
40–59 years	2,049	41.5	0.2	29.0	32.5	34.4	37.4	42.1	46.3	48.3	49.8	51.8
60–79 years	1,846	43.5	0.1	32.9	35.9	37.5	40.0	44.0	47.5	49.4	50.3	52.1
80 years and older	594	41.5	0.3	30.4	33.4	35.1	37.9	42.1	45.7	47.6	48.8	50.3

See footnotes at end of table.

Table 8. Subtotal percentage body fat (total percentage body fat excluding the head) for examined persons 8 years of age and older by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	42.5	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	42.0	0.3	31.2	33.9	35.6	37.9	42.2	46.3	48.0	49.3	51.4
Age:												
8–11 years	342	33.9	0.5	23.2	24.8	25.8	28.2	33.0	39.1	42.1	44.6	46.9
12–15 years	632	35.3	0.3	23.7	26.2	27.7	30.5	35.5	39.6	42.6	44.3	47.1
16–19 years	533	37.6	0.3	27.2	29.1	30.9	32.9	37.4	42.1	45.1	46.5	48.4
20–39 years	492	40.6	0.4	30.0	32.4	33.9	36.2	40.8	45.2	47.0	48.4	50.1
40–59 years	442	43.5	0.3	35.1	36.9	37.8	40.2	43.5	47.2	48.3	49.9	52.1
60–79 years	457	44.4	0.4	35.4	37.3	38.6	41.2	44.7	48.2	49.8	51.0	52.8
80 years and older	47	41.8	1.3	†	†	33.4	36.8	42.7	47.7	49.1	49.5	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	40.4	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	40.7	0.2	27.5	30.7	32.7	35.9	41.5	46.0	48.1	49.7	51.6
Age:												
8–11 years	281	32.7	0.5	22.1	23.6	25.1	26.8	31.8	38.2	41.4	42.9	45.1
12–15 years	448	32.8	0.5	21.4	22.7	24.4	27.4	32.0	37.8	41.2	43.0	46.0
16–19 years	409	35.3	0.4	24.2	26.4	28.0	30.4	34.2	39.5	43.3	45.6	49.1
20–39 years	907	38.1	0.3	25.0	28.2	29.9	32.5	38.0	43.3	46.5	48.1	50.9
40–59 years	964	41.1	0.3	27.9	31.4	33.4	36.7	41.9	46.3	48.3	49.9	51.8
60–79 years	922	43.6	0.2	33.4	36.0	37.6	40.3	44.1	47.5	49.4	50.3	52.2
80 years and older	457	41.7	0.3	30.4	33.5	35.2	38.0	42.3	46.0	47.9	49.1	50.5
Non-Hispanic black:												
20 years and older, age adjusted	1,312	41.7	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	41.6	0.2	27.8	31.5	33.9	37.4	42.2	46.6	48.8	50.3	52.2
Age:												
8–11 years	373	31.3	0.5	19.2	20.8	22.0	24.4	30.7	37.4	41.4	43.3	45.2
12–15 years	558	32.1	0.4	20.3	22.5	23.7	26.2	31.4	37.7	41.1	43.4	46.0
16–19 years	435	35.0	0.5	21.4	24.7	26.4	28.7	34.3	41.1	45.1	47.0	49.8
20–39 years	455	39.8	0.4	25.9	28.8	31.2	34.7	40.6	45.3	47.6	49.3	51.4
40–59 years	453	42.9	0.3	31.2	34.3	36.5	39.2	43.4	46.9	49.4	51.0	52.8
60–79 years	346	43.4	0.4	30.8	35.4	37.3	39.4	44.2	48.4	50.2	51.0	52.5
80 years and older	58	40.4	0.8	28.8	31.3	34.4	36.8	41.0	43.8	46.0	46.8	48.6

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 9. Subtotal lean soft tissue (total lean soft tissue excluding the head) in kilograms for examined persons 8 years of age and older by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	55.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	56.0	0.2	41.6	44.4	46.4	49.5	55.2	61.6	65.4	68.1	72.6
Age:												
8–11 years	1,067	23.3	0.2	15.8	17.0	17.8	19.3	22.5	26.1	28.7	30.7	33.5
12–15 years	1,726	39.7	0.4	23.3	26.1	28.3	31.4	39.3	46.9	50.4	53.9	57.7
16–19 years	1,751	52.4	0.3	39.7	42.0	43.4	45.8	51.3	57.9	61.8	64.8	68.2
20–39 years	2,183	56.4	0.3	41.9	44.7	46.5	49.6	55.1	62.0	66.1	68.8	74.9
40–59 years	2,024	57.4	0.2	43.6	46.5	48.5	51.0	57.0	62.7	66.2	68.8	72.7
60–79 years	1,851	53.7	0.3	40.4	42.5	44.6	47.6	53.0	59.3	62.7	65.3	68.5
80 years and older	501	46.8	0.3	36.0	38.6	40.2	42.5	46.3	50.9	53.7	55.8	58.6
Mexican American:												
Age 20 years and older, age adjusted	1,488	51.6	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	52.1	0.3	40.3	42.2	43.7	46.4	51.3	57.0	59.9	62.3	66.6
Age:												
8–11 years	348	23.5	0.3	15.4	16.4	17.2	18.8	22.3	26.7	30.4	32.1	34.2
12–15 years	599	39.1	0.5	23.3	26.2	28.7	32.4	39.0	45.4	49.2	51.0	54.9
16–19 years	611	49.6	0.4	37.8	39.8	41.5	43.6	48.1	54.5	58.9	60.7	65.5
20–39 years	570	52.0	0.5	40.1	42.1	43.3	45.9	51.1	57.3	60.0	62.5	67.0
40–59 years	427	53.0	0.4	41.4	43.9	45.4	47.8	52.4	57.1	60.3	62.7	66.8
60–79 years	443	50.3	0.4	39.4	41.3	42.6	44.8	49.9	54.9	57.8	60.1	63.8
80 years and older	48	43.5	0.7	33.8	37.9	38.2	39.7	43.5	46.8	48.4	49.7	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	56.6	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	56.8	0.2	42.9	45.6	47.6	50.5	56.1	62.1	65.7	68.2	72.4
Age:												
8–11 years	280	22.9	0.3	15.7	16.9	17.9	19.2	22.5	25.4	27.5	29.7	32.0
12–15 years	438	39.6	0.5	23.3	26.0	28.3	31.2	39.3	47.0	50.3	53.4	57.1
16–19 years	447	53.1	0.4	40.6	42.8	43.9	46.3	52.2	58.9	62.1	65.2	68.1
20–39 years	934	57.3	0.4	43.5	46.1	47.9	50.8	56.1	62.7	66.3	69.0	75.1
40–59 years	1,013	58.3	0.3	45.1	48.1	49.4	52.5	57.7	63.4	66.6	68.9	72.8
60–79 years	975	54.4	0.3	41.1	43.5	45.6	48.7	53.9	59.8	63.1	65.8	68.8
80 years and older	398	47.0	0.3	36.9	39.0	41.0	42.9	46.5	51.0	53.8	55.8	58.2
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	57.5	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	58.2	0.4	42.7	45.4	47.6	50.6	57.2	64.3	68.6	72.4	77.4
Age:												
8–11 years	359	24.8	0.4	16.6	18.0	19.1	20.8	23.8	27.4	30.8	33.4	36.6
12–15 years	566	42.2	0.4	25.2	27.9	30.3	34.2	41.9	48.8	53.1	56.7	60.8
16–19 years	551	54.3	0.5	40.4	42.8	44.6	47.4	52.9	59.0	63.5	66.8	71.9
20–39 years	450	59.3	0.6	43.9	46.6	48.4	51.1	57.7	65.3	70.2	73.9	81.4
40–59 years	435	58.4	0.5	43.0	46.2	48.3	51.6	57.3	64.6	69.0	71.8	76.4
60–79 years	324	54.6	0.5	39.8	42.6	44.6	47.6	54.3	59.9	64.7	66.8	70.6
80 years and older	36	47.4	1.3	†	35.8	38.9	41.9	47.0	51.1	53.8	57.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	39.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	39.0	0.2	29.0	30.7	31.9	33.8	37.8	42.9	46.5	48.8	52.8
Age:												
8–11 years	1,082	23.0	0.3	14.2	15.4	16.4	18.1	22.2	26.9	29.7	31.9	34.6
12–15 years	1,780	33.8	0.2	24.7	26.6	27.8	29.7	33.2	37.2	39.7	41.8	45.2
16–19 years	1,513	36.8	0.2	27.7	29.0	30.5	32.0	35.9	40.2	43.1	45.5	48.9
20–39 years	2,043	39.4	0.2	29.6	31.3	32.5	34.3	38.2	43.2	46.8	49.3	53.2
40–59 years	2,049	40.1	0.3	29.7	31.5	32.6	34.6	38.9	44.3	47.7	50.3	54.1
60–79 years	1,846	37.4	0.2	28.7	30.0	31.2	32.9	36.5	41.1	44.0	46.4	49.7
80 years and older	594	33.5	0.4	25.8	27.0	28.1	29.5	32.8	36.5	38.7	40.5	43.4

See footnotes at end of table.

Table 9. Subtotal lean soft tissue (total lean soft tissue excluding the head) in kilograms for examined persons 8 years of age and older by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	37.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	37.4	0.3	27.8	29.6	30.8	32.6	36.5	41.3	44.4	46.4	49.7
Age:												
8–11 years	342	21.6	0.4	13.7	14.6	15.2	16.8	20.2	25.6	28.2	30.0	32.8
12–15 years	632	32.9	0.3	24.0	26.0	26.9	28.7	32.2	36.3	38.2	41.2	45.1
16–19 years	533	34.9	0.3	26.3	27.6	28.5	30.1	33.6	38.1	40.6	43.7	48.0
20–39 years	492	37.4	0.4	27.8	29.7	30.9	32.7	36.5	41.0	44.3	46.4	49.8
40–59 years	442	38.4	0.4	28.9	30.0	31.3	33.4	37.5	42.9	45.4	47.0	50.6
60–79 years	457	35.4	0.3	27.3	28.6	29.6	31.3	34.9	38.8	41.2	43.1	45.7
80 years and older	47	29.6	0.7	22.4	25.5	25.9	26.5	29.2	31.7	33.2	34.5	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	39.0	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	38.8	0.2	29.2	31.0	32.1	33.9	37.7	42.6	46.1	48.2	51.7
Age:												
8–11 years	281	22.9	0.4	14.0	15.5	16.5	18.1	22.2	26.6	29.2	31.0	34.2
12–15 years	448	33.4	0.3	24.6	26.6	27.5	29.5	33.0	36.9	38.9	40.7	43.2
16–19 years	409	36.9	0.3	28.5	30.2	31.1	32.4	36.0	40.1	43.0	45.0	48.6
20–39 years	907	39.3	0.2	30.3	31.7	32.8	34.5	38.2	42.8	46.1	48.5	51.5
40–59 years	964	40.1	0.3	30.3	31.8	32.9	34.7	38.9	44.2	47.6	50.1	53.7
60–79 years	922	37.3	0.2	29.0	30.1	31.2	32.9	36.5	40.7	43.4	45.7	48.9
80 years and older	457	33.5	0.4	26.0	27.1	28.2	29.5	32.9	36.5	38.6	40.4	43.2
Non-Hispanic black:												
20 years and older, age adjusted	1,312	43.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	43.2	0.2	31.7	33.7	35.0	37.1	41.8	48.0	51.9	54.4	58.4
Age:												
8–11 years	373	25.0	0.4	14.9	17.3	18.2	19.6	23.8	29.0	32.6	34.5	37.0
12–15 years	558	36.8	0.4	27.9	29.5	30.7	32.3	35.6	40.6	43.8	46.0	49.6
16–19 years	435	39.8	0.4	29.7	31.1	32.2	34.3	37.8	44.1	47.8	49.9	55.8
20–39 years	455	43.5	0.4	31.8	34.1	35.3	37.1	41.6	49.1	53.4	55.7	59.7
40–59 years	453	43.9	0.3	32.2	34.5	35.6	38.0	42.8	48.0	51.9	54.1	58.9
60–79 years	346	42.0	0.4	31.6	33.2	34.1	36.2	41.4	46.3	49.5	52.2	55.6
80 years and older	58	36.2	0.9	26.0	28.9	29.8	32.1	35.9	39.5	41.7	44.5	46.4

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Subtotal lean soft tissue does not include bone mineral content.

Table 10. Subtotal fat-free mass (total fat-free mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	58.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	58.3	0.2	43.2	46.3	48.3	51.5	57.4	64.0	67.9	70.7	75.3
Age:												
8–11 years	1,067	24.1	0.2	16.4	17.6	18.5	20.1	23.3	27.1	29.8	31.9	34.7
12–15 years	1,726	41.3	0.4	24.3	27.1	29.3	32.6	40.8	48.9	52.5	56.0	59.9
16–19 years	1,751	54.6	0.3	41.4	43.8	45.2	47.7	53.4	60.3	64.2	67.5	70.9
20–39 years	2,183	58.7	0.3	43.7	46.6	48.5	51.7	57.4	64.4	68.7	71.5	77.6
40–59 years	2,024	59.6	0.3	45.4	48.3	50.5	53.0	59.2	65.0	68.7	71.4	75.5
60–79 years	1,851	55.8	0.3	42.0	44.3	46.4	49.5	55.2	61.6	65.1	67.6	71.1
80 years and older	501	48.7	0.3	37.6	40.2	41.9	44.2	48.1	52.9	55.9	58.0	61.0
Mexican American:												
Age 20 years and older, age adjusted	1,488	53.5	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	54.1	0.4	41.9	43.9	45.4	48.2	53.3	59.1	62.2	64.6	69.0
Age:												
8–11 years	348	24.3	0.3	16.0	17.0	17.9	19.5	23.1	27.7	31.4	33.2	35.5
12–15 years	599	40.6	0.5	24.2	27.2	29.7	33.6	40.4	47.3	51.0	53.0	57.1
16–19 years	611	51.6	0.4	39.4	41.5	43.2	45.3	50.2	56.5	61.3	63.1	67.9
20–39 years	570	54.0	0.6	41.7	43.7	45.0	47.7	53.0	59.4	62.4	64.8	69.4
40–59 years	427	55.0	0.4	43.0	45.8	47.1	49.7	54.4	59.3	62.8	65.0	69.1
60–79 years	443	52.3	0.4	41.0	43.0	44.2	46.5	51.7	57.0	60.1	62.2	66.2
80 years and older	48	45.3	0.7	35.4	39.3	39.8	41.0	45.4	48.5	50.2	51.4	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	58.9	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	59.0	0.2	44.6	47.4	49.5	52.6	58.3	64.5	68.2	70.8	75.0
Age:												
8–11 years	280	23.7	0.3	16.4	17.6	18.6	19.9	23.3	26.3	28.5	30.8	33.1
12–15 years	438	41.2	0.5	24.3	27.0	29.3	32.4	40.8	48.9	52.3	55.6	59.4
16–19 years	447	55.3	0.4	42.2	44.4	45.6	48.3	54.3	61.3	64.6	67.8	70.8
20–39 years	934	59.6	0.4	45.2	47.9	49.9	52.9	58.4	65.2	69.0	71.5	77.8
40–59 years	1,013	60.5	0.3	46.8	49.9	51.5	54.5	60.0	65.8	69.2	71.6	75.7
60–79 years	975	56.5	0.3	42.9	45.2	47.4	50.7	55.9	62.2	65.6	68.1	71.4
80 years and older	398	48.9	0.3	38.5	40.5	42.7	44.6	48.2	53.0	56.0	58.0	60.6
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	59.9	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	60.6	0.4	44.7	47.4	49.6	52.9	59.5	67.0	71.5	75.0	80.4
Age:												
8–11 years	359	25.7	0.4	17.2	18.7	19.8	21.7	24.7	28.4	31.9	34.6	37.9
12–15 years	566	43.9	0.4	26.2	29.0	31.4	35.4	43.6	51.0	55.2	58.9	63.1
16–19 years	551	56.6	0.5	42.2	44.7	46.5	49.5	55.3	61.5	66.3	69.8	75.0
20–39 years	450	61.8	0.6	46.0	48.6	50.7	53.3	60.2	68.0	73.1	77.0	84.7
40–59 years	435	60.8	0.5	44.9	48.2	50.3	53.9	59.6	67.1	71.8	74.6	79.1
60–79 years	324	56.8	0.5	41.5	44.6	46.6	49.6	56.7	62.4	67.2	69.5	73.3
80 years and older	36	49.5	1.4	†	37.5	40.5	43.5	49.0	53.5	56.5	59.9	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	40.6	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	40.6	0.2	30.2	32.0	33.3	35.2	39.4	44.7	48.3	50.7	54.7
Age:												
8–11 years	1,082	23.9	0.3	14.7	16.0	17.0	18.8	23.1	27.9	30.8	33.0	35.9
12–15 years	1,780	35.2	0.2	25.8	27.7	29.0	31.0	34.6	38.7	41.2	43.5	47.2
16–19 years	1,513	38.4	0.2	29.0	30.4	31.8	33.5	37.5	42.0	44.9	47.2	51.0
20–39 years	2,043	41.1	0.2	31.0	32.8	34.0	35.8	39.9	45.0	48.7	51.2	55.1
40–59 years	2,049	41.8	0.3	31.0	32.9	34.1	36.1	40.6	46.1	49.6	52.2	56.0
60–79 years	1,846	38.9	0.2	29.9	31.1	32.5	34.1	37.9	42.7	45.6	48.1	51.5
80 years and older	594	34.7	0.4	26.8	28.0	29.2	30.5	34.0	37.9	40.1	41.9	44.9

See footnotes at end of table.

Table 10. Subtotal fat-free mass (total fat-free mass excluding the head) in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	38.4	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	38.9	0.3	29.1	31.0	32.2	34.0	38.0	42.9	46.1	48.1	51.6
Age:												
8–11 years	342	22.4	0.4	14.2	15.3	15.8	17.5	21.0	26.5	29.3	31.1	34.1
12–15 years	632	34.3	0.3	25.1	27.1	28.1	30.0	33.6	37.8	39.8	42.9	46.9
16–19 years	533	36.4	0.3	27.5	28.9	29.8	31.5	35.2	39.8	42.3	45.3	50.0
20–39 years	492	38.9	0.4	29.1	31.1	32.3	34.1	38.1	42.7	45.8	48.2	51.6
40–59 years	442	40.0	0.4	30.2	31.3	32.6	34.8	39.1	44.6	47.1	48.8	52.2
60–79 years	457	36.7	0.3	28.3	29.7	30.7	32.4	36.3	40.3	42.6	44.6	47.3
80 years and older	47	30.7	0.8	23.2	26.3	26.7	27.4	30.0	32.8	34.3	35.6	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	40.6	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	40.4	0.2	30.5	32.4	33.4	35.3	39.3	44.3	47.9	50.1	53.7
Age:												
8–11 years	281	23.8	0.4	14.6	16.2	17.1	18.8	23.1	27.6	30.3	32.1	35.5
12–15 years	448	34.8	0.3	25.6	27.7	28.6	30.7	34.4	38.5	40.6	42.3	45.1
16–19 years	409	38.6	0.3	29.7	31.6	32.5	33.9	37.7	41.9	44.9	47.0	50.6
20–39 years	907	40.9	0.2	31.6	33.2	34.3	36.1	39.9	44.6	48.0	50.4	53.5
40–59 years	964	41.8	0.3	31.7	33.3	34.5	36.3	40.6	46.0	49.6	51.8	55.7
60–79 years	922	38.7	0.2	30.1	31.2	32.6	34.1	37.9	42.3	45.1	47.5	50.6
80 years and older	457	34.7	0.4	27.0	28.1	29.3	30.6	34.0	37.8	40.0	41.8	44.6
Non-Hispanic black:												
20 years and older, age adjusted	1,312	44.7	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	45.0	0.2	33.1	35.2	36.7	38.7	43.6	49.9	54.0	56.5	60.5
Age:												
8–11 years	373	25.9	0.4	15.5	18.0	18.9	20.4	24.6	30.1	33.8	35.8	38.4
12–15 years	558	38.4	0.4	29.0	30.8	32.1	33.7	37.2	42.3	45.5	47.8	51.7
16–19 years	435	41.6	0.4	31.2	32.5	33.8	35.8	39.5	46.0	49.9	52.2	57.9
20–39 years	455	45.4	0.5	33.3	35.6	36.8	38.7	43.4	51.2	55.3	57.9	62.0
40–59 years	453	45.7	0.3	33.7	36.1	37.2	39.6	44.6	49.9	53.9	56.2	61.0
60–79 years	346	43.6	0.4	32.8	34.5	35.4	37.7	43.1	48.0	51.5	54.1	57.7
80 years and older	58	37.5	0.9	26.9	30.0	30.9	33.3	37.4	40.8	43.1	46.0	48.0

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Subtotal fat-free mass includes bone mineral content.

Table 11. Trunk total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	43.2	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	43.3	0.2	29.1	31.5	33.1	36.0	41.8	48.9	53.5	56.5	62.7
Age:												
8–11 years	1,067	16.5	0.2	10.2	11.0	11.6	12.5	15.0	18.9	21.8	23.9	27.9
12–15 years	1,726	26.6	0.3	14.8	16.3	17.9	20.2	25.3	30.8	35.6	38.3	43.9
16–19 years	1,751	35.3	0.3	24.4	25.7	26.8	28.7	33.1	39.6	44.9	47.8	53.6
20–39 years	2,183	41.4	0.3	27.5	30.0	31.4	34.1	39.4	46.3	51.3	55.0	61.9
40–59 years	2,024	45.1	0.3	31.0	33.4	35.2	38.2	43.6	50.7	54.9	57.4	63.9
60–79 years	1,851	44.8	0.3	30.5	32.9	35.0	38.0	43.6	50.5	54.3	57.5	62.4
80 years and older	501	39.0	0.3	28.0	30.2	31.9	34.0	38.2	43.1	46.7	49.0	52.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	41.1	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	40.6	0.4	27.8	30.2	31.7	34.0	39.7	45.7	49.0	51.3	57.4
Age:												
8–11 years	348	17.8	0.4	10.3	11.0	11.5	12.7	15.7	21.8	24.2	27.0	31.4
12–15 years	599	27.4	0.3	14.8	16.9	19.0	21.7	25.9	32.4	36.2	38.8	43.6
16–19 years	611	35.1	0.5	24.3	25.6	26.7	28.2	32.3	39.6	44.1	48.2	53.7
20–39 years	570	39.6	0.6	27.4	29.3	30.6	32.6	38.3	44.9	48.5	51.0	56.1
40–59 years	427	42.5	0.4	30.0	32.9	34.6	36.8	41.8	46.6	49.3	52.3	58.3
60–79 years	443	42.4	0.4	30.8	32.6	34.1	36.7	41.7	47.0	50.2	53.1	58.4
80 years and older	48	36.6	1.0	24.9	29.5	31.6	31.8	35.5	40.6	44.1	45.3	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	44.2	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	44.4	0.2	30.2	32.5	34.6	37.3	43.1	50.0	54.3	57.1	63.7
Age:												
8–11 years	280	16.3	0.3	10.2	11.1	11.7	12.6	15.1	18.6	21.1	23.0	27.5
12–15 years	438	26.8	0.5	14.8	16.6	18.0	20.1	25.6	31.0	35.2	38.1	43.6
16–19 years	447	36.1	0.4	25.2	26.4	27.4	29.7	33.8	40.9	45.7	48.2	53.5
20–39 years	934	42.3	0.4	28.6	30.5	32.4	34.8	40.4	47.3	52.2	56.1	63.6
40–59 years	1,013	46.2	0.4	32.1	34.8	36.5	39.5	45.0	51.7	55.5	58.1	64.7
60–79 years	975	45.8	0.3	31.9	34.3	35.9	39.1	44.6	51.4	55.5	58.3	63.2
80 years and older	398	39.3	0.4	28.1	30.6	32.2	34.4	38.5	43.8	46.8	49.5	53.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	41.0	0.3	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	41.1	0.4	26.8	29.1	30.7	33.2	39.0	46.8	52.0	55.9	61.3
Age:												
8–11 years	359	16.1	0.3	9.9	10.8	11.3	12.3	14.3	18.3	21.2	24.1	28.1
12–15 years	566	26.2	0.3	14.4	16.0	17.2	20.4	24.9	30.1	34.1	37.7	43.6
16–19 years	551	33.8	0.5	23.1	24.7	25.3	27.2	31.2	36.5	42.2	48.2	53.7
20–39 years	450	40.1	0.6	26.2	28.5	30.0	32.0	37.1	45.1	50.1	55.6	61.0
40–59 years	435	42.2	0.5	27.9	30.2	31.6	34.8	40.2	47.5	53.2	56.4	62.3
60–79 years	324	42.0	0.6	26.9	29.5	31.7	34.4	40.6	47.8	52.9	55.4	61.4
80 years and older	36	36.4	1.4	†	†	28.9	31.0	36.5	38.8	40.4	45.9	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	36.3	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	36.4	0.2	23.6	25.4	26.7	29.0	34.5	41.8	46.5	50.1	55.9
Age:												
8–11 years	1,082	17.3	0.3	9.6	10.7	11.4	12.5	16.1	20.8	23.8	25.8	29.2
12–15 years	1,780	26.2	0.3	17.0	18.5	19.6	21.4	24.8	29.4	33.2	36.4	41.1
16–19 years	1,513	30.2	0.3	20.5	21.9	22.8	24.6	27.9	33.4	38.4	41.9	47.2
20–39 years	2,043	34.9	0.3	22.7	24.4	25.6	27.5	32.5	39.9	45.5	49.0	55.8
40–59 years	2,049	38.1	0.4	24.1	26.1	27.7	30.3	36.1	43.7	48.7	52.4	58.0
60–79 years	1,846	37.0	0.2	24.9	27.1	28.6	31.0	35.7	41.7	45.7	48.9	53.2
80 years and older	594	31.6	0.4	21.6	23.0	24.6	26.7	31.1	36.0	38.8	40.2	43.5

See footnotes at end of table.

Table 11. Trunk total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	36.5	0.3	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	36.4	0.4	24.2	26.1	27.4	29.8	35.0	41.8	45.8	48.7	53.2
Age:												
8–11 years	342	16.9	0.4	9.7	10.4	11.1	12.2	15.1	20.4	23.3	26.0	28.0
12–15 years	632	27.0	0.4	17.6	19.0	20.0	21.6	25.1	30.9	34.3	38.0	42.6
16–19 years	533	30.2	0.4	20.5	22.1	22.8	24.4	27.5	33.9	38.6	41.5	47.4
20–39 years	492	35.2	0.5	23.5	24.9	26.4	28.4	33.4	40.0	44.4	47.0	52.5
40–59 years	442	38.8	0.6	26.1	27.9	29.6	32.2	37.0	43.8	48.1	51.0	55.0
60–79 years	457	36.7	0.4	25.8	27.4	29.1	31.4	35.6	41.4	44.4	47.5	50.8
80 years and older	47	29.2	1.3	18.1	21.3	22.7	25.1	28.7	32.5	33.9	35.4	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	36.2	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	36.3	0.3	23.7	25.5	26.7	28.9	34.4	41.6	46.5	50.0	55.7
Age:												
8–11 years	281	17.4	0.4	9.7	10.8	11.6	12.8	16.3	20.9	23.7	25.8	29.2
12–15 years	448	26.0	0.4	16.4	18.1	19.5	21.5	24.7	29.2	32.7	35.5	39.6
16–19 years	409	30.3	0.4	21.3	22.4	23.3	24.9	28.1	33.3	38.1	42.3	47.0
20–39 years	907	34.7	0.4	23.0	24.7	25.7	27.4	31.8	39.3	44.7	48.7	55.4
40–59 years	964	38.0	0.4	24.0	26.0	27.4	29.7	35.9	43.8	48.9	52.7	57.7
60–79 years	922	37.1	0.2	24.8	27.1	28.7	31.3	35.8	41.6	45.8	48.6	53.2
80 years and older	457	31.9	0.4	21.9	23.1	24.6	26.8	31.2	36.1	39.0	40.4	43.7
Non-Hispanic black:												
20 years and older, age adjusted	1,312	38.8	0.3	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	38.9	0.3	23.9	25.9	27.9	31.0	37.0	45.5	50.3	53.7	59.9
Age:												
8–11 years	373	17.5	0.4	9.5	10.5	11.2	12.5	16.0	21.0	24.2	26.0	29.5
12–15 years	558	26.7	0.4	17.5	18.9	20.0	21.2	24.8	30.1	34.8	38.3	42.6
16–19 years	435	31.3	0.6	20.1	21.2	21.9	23.7	27.8	36.4	41.7	46.4	54.4
20–39 years	455	37.6	0.6	22.7	24.7	26.0	28.9	34.7	44.5	49.9	54.2	59.9
40–59 years	453	40.7	0.5	25.2	28.3	30.2	32.7	38.4	46.5	51.2	55.7	62.8
60–79 years	346	39.6	0.5	25.7	28.5	30.1	32.9	39.0	45.2	50.3	52.5	56.3
80 years and older	58	31.9	0.9	20.8	23.2	24.4	25.9	31.9	36.3	38.0	41.1	44.5

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 12. Trunk fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	13.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	13.2	0.1	4.8	6.0	7.0	8.8	12.3	16.4	19.1	21.0	24.9
Age:												
8–11 years	1,067	4.3	0.1	1.5	1.7	1.9	2.2	3.0	5.2	7.5	8.5	11.4
12–15 years	1,726	6.2	0.2	2.2	2.5	2.8	3.2	4.5	7.8	10.7	12.6	16.4
16–19 years	1,751	8.0	0.2	3.1	3.4	3.7	4.2	6.0	10.2	13.3	15.3	19.5
20–39 years	2,183	11.5	0.2	4.0	4.8	5.6	6.9	10.4	14.5	17.5	19.6	23.6
40–59 years	2,024	14.1	0.2	6.0	7.3	8.4	10.1	13.3	17.4	19.6	21.5	25.5
60–79 years	1,851	15.1	0.2	7.0	8.2	9.3	11.1	14.3	18.4	20.9	22.6	25.7
80 years and older	501	12.6	0.2	6.0	7.4	8.1	9.7	12.1	15.1	17.1	18.4	20.6
Mexican American:												
Age 20 years and older, age adjusted	1,488	12.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	12.4	0.2	4.9	6.3	7.1	8.8	11.7	15.2	17.3	18.8	22.1
Age:												
8–11 years	348	5.3	0.2	1.6	1.8	2.1	2.4	3.7	7.6	9.1	11.0	12.9
12–15 years	599	7.1	0.2	2.4	2.7	2.9	3.5	5.4	9.7	12.0	13.8	15.7
16–19 years	611	9.0	0.3	3.3	3.7	4.1	4.6	7.1	11.1	14.6	17.3	20.7
20–39 years	570	11.7	0.3	4.6	5.6	6.6	7.9	11.1	14.5	16.4	18.7	20.9
40–59 years	427	13.6	0.3	6.2	8.0	8.9	10.2	13.3	15.9	17.6	18.9	22.9
60–79 years	443	14.2	0.2	7.5	8.5	9.6	10.9	13.4	17.0	18.7	21.0	23.3
80 years and older	48	11.8	0.7	6.0	6.9	7.4	8.9	11.2	14.8	15.7	16.8	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	13.6	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	13.7	0.1	5.3	6.5	7.5	9.5	12.8	17.2	19.7	21.6	25.2
Age:												
8–11 years	280	4.1	0.2	1.6	1.8	2.0	2.2	2.9	5.1	7.4	8.1	11.1
12–15 years	438	6.2	0.2	2.3	2.6	2.8	3.2	4.6	7.5	10.3	11.7	16.8
16–19 years	447	8.2	0.3	3.2	3.6	3.9	4.4	6.3	10.8	13.4	15.2	19.3
20–39 years	934	11.8	0.2	4.2	5.1	5.8	7.1	10.6	14.9	17.9	20.0	24.1
40–59 years	1,013	14.6	0.2	6.6	7.9	8.9	10.5	13.7	17.9	20.0	22.1	25.8
60–79 years	975	15.6	0.2	7.4	8.7	10.0	11.8	14.7	18.6	21.1	23.1	26.0
80 years and older	398	12.8	0.2	6.2	7.5	8.3	9.9	12.2	15.3	17.3	18.7	20.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	11.5	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	11.3	0.2	3.5	4.2	4.9	6.5	10.1	14.7	17.6	19.7	23.7
Age:												
8–11 years	359	3.7	0.1	1.3	1.5	1.6	1.8	2.5	4.2	6.4	7.8	10.5
12–15 years	566	5.7	0.2	1.9	2.3	2.5	2.8	3.8	6.5	9.9	12.4	15.3
16–19 years	551	6.9	0.3	2.7	2.9	3.1	3.4	4.4	7.5	11.8	15.4	20.2
20–39 years	450	10.2	0.3	3.1	3.8	4.1	5.2	8.6	13.2	16.2	18.7	23.1
40–59 years	435	12.1	0.3	4.0	4.9	5.9	7.3	11.0	15.2	18.2	20.4	24.3
60–79 years	324	13.0	0.3	4.6	5.5	7.1	9.0	12.2	15.9	19.6	21.7	24.5
80 years and older	36	11.1	0.9	†	5.6	6.3	8.0	10.4	12.6	15.2	16.2	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	14.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	14.6	0.1	5.5	6.7	7.7	9.4	13.6	18.2	21.3	23.8	27.6
Age:												
8–11 years	1,082	5.1	0.1	1.8	2.0	2.3	2.7	4.1	6.9	8.6	9.8	11.8
12–15 years	1,780	8.1	0.2	3.0	3.5	4.0	4.7	6.7	10.3	12.9	14.8	18.2
16–19 years	1,513	10.1	0.2	4.2	4.7	5.2	6.2	8.2	12.2	16.0	18.4	22.0
20–39 years	2,043	13.2	0.2	4.9	5.8	6.5	7.8	11.6	16.7	20.3	22.8	27.6
40–59 years	2,049	15.5	0.2	5.8	7.3	8.2	10.2	14.3	19.5	22.8	25.2	29.0
60–79 years	1,846	15.7	0.1	7.4	8.9	10.1	11.8	15.1	18.8	21.5	23.3	26.6
80 years and older	594	12.5	0.2	5.5	6.6	7.6	9.4	12.3	15.3	16.9	18.2	20.0

See footnotes at end of table.

Table 12. Trunk fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	15.4	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	15.1	0.3	6.7	8.1	9.2	10.7	14.3	18.5	21.1	23.1	26.3
Age:												
8–11 years	342	5.3	0.2	1.9	2.2	2.4	2.8	4.0	7.0	8.6	9.9	12.1
12–15 years	632	9.0	0.2	3.4	4.0	4.4	5.4	7.9	11.4	13.8	15.8	18.8
16–19 years	533	10.9	0.3	4.8	5.5	5.9	6.9	9.1	13.7	16.5	18.7	22.2
20–39 years	492	14.1	0.4	6.1	7.0	8.2	9.5	13.2	17.4	19.9	21.4	26.0
40–59 years	442	16.8	0.4	9.0	9.9	10.8	12.3	15.8	20.2	22.3	24.0	28.3
60–79 years	457	16.2	0.3	8.6	10.4	11.3	12.6	15.4	19.1	21.3	23.6	25.3
80 years and older	47	11.7	0.9	3.8*	6.3	7.6	8.4	11.5	14.4	15.6	16.5	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	14.2	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	14.4	0.2	5.4	6.5	7.4	9.2	13.4	18.1	21.2	23.6	27.6
Age:												
8–11 years	281	5.1	0.2	1.9	2.1	2.4	2.7	4.1	6.6	8.6	9.9	11.8
12–15 years	448	7.8	0.3	3.0	3.4	3.8	4.6	6.6	9.9	12.6	14.3	17.1
16–19 years	409	9.9	0.3	4.2	4.8	5.3	6.3	8.0	11.9	15.4	18.3	21.7
20–39 years	907	12.8	0.3	4.8	5.6	6.3	7.5	10.8	16.0	20.0	22.3	27.7
40–59 years	964	15.3	0.3	5.6	6.8	7.8	9.6	14.2	19.5	23.0	25.2	28.8
60–79 years	922	15.7	0.2	7.3	8.8	10.0	11.8	15.1	18.8	21.6	23.3	26.7
80 years and older	457	12.6	0.3	5.5	6.5	7.6	9.4	12.4	15.4	17.1	18.3	20.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	16.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	16.1	0.2	5.4	7.1	8.5	10.8	14.9	20.3	23.9	26.7	30.5
Age:												
8–11 years	373	5.1	0.2	1.6	1.8	2.0	2.4	3.9	6.8	8.5	10.1	11.9
12–15 years	558	8.0	0.3	2.9	3.4	3.8	4.4	6.5	10.1	13.0	15.6	18.5
16–19 years	435	10.8	0.4	3.5	4.2	4.6	5.4	8.2	14.6	18.3	21.8	27.2
20–39 years	455	14.9	0.4	4.8	6.1	6.9	8.8	13.4	19.2	23.6	26.6	30.3
40–59 years	453	17.3	0.3	6.8	8.8	10.2	12.1	15.9	20.9	25.1	27.6	32.3
60–79 years	346	16.9	0.4	7.7	9.7	10.5	12.5	16.5	21.0	24.0	25.6	27.9
80 years and older	58	12.0	0.6	4.5	6.3	7.2	9.1	11.6	14.9	15.9	17.1	19.1

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

* Figure does not meet standards of reliability or precision.

Table 13. Trunk percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	29.3	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	29.1	0.1	15.7	18.4	20.6	24.2	29.6	34.5	36.9	38.4	40.7
Age:												
8–11 years	1,067	23.7	0.4	13.7	15.0	15.8	17.0	20.5	29.6	34.9	37.5	41.5
12–15 years	1,726	21.8	0.3	12.3	12.9	13.6	14.9	18.3	27.5	32.3	35.4	39.9
16–19 years	1,751	21.0	0.3	11.7	12.7	13.3	14.5	18.4	26.1	30.5	33.3	37.2
20–39 years	2,183	26.4	0.2	13.8	15.8	17.3	20.5	26.6	31.8	34.8	36.8	39.3
40–59 years	2,024	30.3	0.2	18.5	21.1	23.2	26.2	30.4	34.8	37.0	38.4	40.7
60–79 years	1,851	32.7	0.2	21.4	24.3	26.3	28.8	33.0	37.0	39.3	40.7	42.5
80 years and older	501	31.7	0.3	20.8	23.6	25.1	27.5	32.0	36.2	38.0	39.2	40.6
Mexican American:												
Age 20 years and older, age adjusted	1,488	30.5	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	29.5	0.3	16.9	20.4	22.2	25.3	29.8	34.1	36.0	37.6	40.0
Age:												
8–11 years	348	27.0	0.6	14.8	15.9	16.9	18.9	25.1	35.1	38.7	41.1	43.9
12–15 years	599	24.1	0.5	13.1	13.8	14.6	16.2	22.1	31.0	34.7	37.1	40.0
16–19 years	611	23.5	0.4	12.7	13.9	14.8	16.4	21.8	28.9	33.4	36.8	39.8
20–39 years	570	28.4	0.4	16.2	18.7	20.8	23.6	28.6	32.9	35.2	36.6	39.5
40–59 years	427	31.1	0.4	20.0	23.4	25.2	27.3	31.4	34.9	37.1	38.4	40.4
60–79 years	443	32.8	0.3	22.8	25.7	26.7	29.1	33.3	36.5	38.6	39.7	41.2
80 years and older	48	31.7	1.2	20.9	22.8	23.9	28.4	32.3	35.4	37.8	38.4	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	29.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	29.6	0.1	16.6	19.2	21.3	24.8	29.9	34.9	37.2	38.7	41.1
Age:												
8–11 years	280	23.5	0.6	14.5	15.6	16.2	17.2	20.4	28.9	33.9	36.8	41.2
12–15 years	438	21.7	0.5	12.6	13.1	13.8	15.0	18.0	27.4	31.1	35.1	40.0
16–19 years	447	21.2	0.4	12.1	13.0	13.6	14.7	18.6	26.2	30.3	32.6	36.1
20–39 years	934	26.4	0.2	14.2	16.0	17.4	20.4	26.4	31.7	35.1	37.0	39.3
40–59 years	1,013	30.6	0.2	19.4	21.8	23.8	26.6	30.5	35.0	37.1	38.6	41.1
60–79 years	975	33.1	0.2	22.3	25.1	26.8	29.2	33.3	37.2	39.5	40.8	42.6
80 years and older	398	31.8	0.3	21.1	23.8	25.4	27.6	32.1	36.3	38.0	39.3	40.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	26.3	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	25.8	0.2	12.4	14.0	15.8	19.3	26.2	31.8	34.8	37.0	39.8
Age:												
8–11 years	359	20.9	0.5	12.3	13.1	13.7	14.7	17.9	24.7	30.7	33.7	39.9
12–15 years	566	19.8	0.4	11.3	11.9	12.3	13.0	16.2	23.8	30.8	35.0	39.5
16–19 years	551	18.3	0.4	10.7	11.1	11.6	12.5	14.7	21.5	28.1	32.1	37.8
20–39 years	450	23.6	0.4	11.5	12.6	13.6	16.5	23.2	29.6	33.2	35.1	38.0
40–59 years	435	27.1	0.3	13.9	15.7	17.9	21.4	27.5	32.1	35.3	37.5	40.0
60–79 years	324	29.6	0.4	15.0	18.3	21.7	24.8	30.2	34.6	37.3	39.1	41.5
80 years and older	36	29.6	1.4	†	20.1	21.5	24.0	28.9	33.6	38.3	39.3	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	38.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	38.2	0.2	22.5	25.7	28.2	32.5	39.3	44.4	46.8	48.5	50.7
Age:												
8–11 years	1,082	27.8	0.4	16.2	17.7	18.8	20.7	26.2	33.6	38.8	40.2	43.3
12–15 years	1,780	28.9	0.4	16.5	18.2	19.6	22.1	27.7	35.3	38.7	41.1	44.6
16–19 years	1,513	31.5	0.4	19.1	21.0	22.4	24.6	30.0	37.3	41.7	44.5	47.6
20–39 years	2,043	35.5	0.3	20.2	23.3	25.1	28.3	35.7	42.4	45.6	47.9	50.4
40–59 years	2,049	39.0	0.3	23.1	27.2	29.9	34.1	40.2	44.7	47.2	49.0	51.0
60–79 years	1,846	41.3	0.2	28.4	31.9	34.4	37.6	42.2	45.8	47.6	49.0	51.1
80 years and older	594	38.3	0.4	24.2	28.2	30.9	34.0	39.3	43.2	45.1	46.5	48.0

See footnotes at end of table.

Table 13. Trunk percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	40.8	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	40.2	0.4	26.7	30.4	32.8	35.7	41.0	45.4	47.2	48.6	50.9
Age:												
8–11 years	342	29.2	0.7	17.8	19.0	20.3	22.2	27.3	34.9	39.2	41.6	43.6
12–15 years	632	31.6	0.4	18.4	20.5	22.5	25.2	31.6	37.6	40.8	43.1	45.5
16–19 years	533	34.3	0.4	21.6	23.7	25.4	28.2	33.8	40.3	43.8	45.9	47.7
20–39 years	492	38.5	0.5	24.9	27.7	30.3	33.5	39.1	44.2	46.2	47.6	49.8
40–59 years	442	42.2	0.4	31.7	34.6	35.8	38.4	42.3	46.1	48.0	49.1	51.9
60–79 years	457	43.2	0.4	33.2	35.8	37.7	39.8	43.8	46.8	48.7	50.2	51.7
80 years and older	47	38.9	1.6	21.3	27.7	30.6	33.7	39.4	44.5	46.0	47.1	48.9
Non-Hispanic white:												
20 years and older, age adjusted	3,250	37.3	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	37.7	0.3	21.8	25.1	27.3	31.6	38.9	44.2	46.6	48.4	50.6
Age:												
8–11 years	281	27.7	0.5	16.8	18.4	19.5	20.8	26.2	33.0	37.9	40.0	43.1
12–15 years	448	28.4	0.6	16.4	18.0	19.4	21.6	26.8	34.6	38.4	40.7	44.1
16–19 years	409	30.9	0.5	19.1	20.9	22.4	24.3	28.9	36.4	40.4	43.6	47.1
20–39 years	907	34.5	0.4	19.6	22.5	24.2	27.1	34.3	41.6	44.7	47.1	50.0
40–59 years	964	38.3	0.4	21.9	25.7	28.3	32.6	39.7	44.5	47.0	48.9	50.8
60–79 years	922	41.2	0.2	28.2	31.5	34.1	37.5	42.1	45.8	47.6	49.1	51.1
80 years and older	457	38.4	0.4	24.2	28.2	30.8	33.8	39.5	43.4	45.3	46.7	48.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	39.4	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	39.4	0.3	22.7	26.6	30.1	34.3	40.4	45.5	48.3	49.8	51.8
Age:												
8–11 years	373	26.6	0.5	14.8	16.2	17.2	18.8	24.7	33.1	37.4	40.0	43.7
12–15 years	558	27.9	0.4	14.9	17.3	18.8	20.6	26.7	34.0	38.8	40.8	45.1
16–19 years	435	31.5	0.6	16.6	19.1	21.0	23.2	29.4	39.7	44.3	46.8	49.5
20–39 years	455	37.4	0.4	20.2	23.6	26.3	30.8	38.3	44.5	47.7	49.5	51.5
40–59 years	453	40.9	0.4	25.5	30.6	33.5	36.6	41.4	46.0	48.8	50.3	52.5
60–79 years	346	41.5	0.4	27.8	32.2	35.0	37.5	42.3	46.8	48.8	49.6	51.3
80 years and older	58	36.7	1.1	21.9	26.4	28.8	33.0	37.0	41.7	43.0	43.6	46.1

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 14. Trunk lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	29.3	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	29.4	0.1	22.0	23.4	24.4	26.0	28.9	32.2	34.2	35.8	38.1
Age:												
8–11 years	1,067	11.9	0.1	8.1	8.7	9.2	9.9	11.5	13.3	14.5	15.7	17.1
12–15 years	1,726	19.8	0.2	11.7	13.0	14.0	15.8	19.7	23.4	25.5	26.9	29.2
16–19 years	1,751	26.5	0.2	20.2	21.2	22.0	23.3	26.0	29.1	31.2	32.6	34.8
20–39 years	2,183	29.0	0.2	21.8	23.1	24.1	25.5	28.4	31.8	33.9	35.6	38.7
40–59 years	2,024	30.2	0.1	22.9	24.3	25.5	27.0	29.8	32.9	34.9	36.4	38.3
60–79 years	1,851	29.0	0.1	21.8	23.1	24.1	25.6	28.6	32.0	33.7	35.2	37.1
80 years and older	501	25.7	0.2	19.8	21.3	22.1	23.5	25.4	27.7	29.6	30.7	32.3
Mexican American:												
Age 20 years and older, age adjusted	1,488	27.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	27.5	0.2	21.4	22.3	23.1	24.3	27.0	30.0	31.6	32.6	35.1
Age:												
8–11 years	348	12.2	0.2	8.2	8.6	9.0	9.7	11.5	13.7	15.8	16.5	18.0
12–15 years	599	19.8	0.2	11.8	13.0	14.6	16.4	19.6	23.1	24.9	26.2	27.7
16–19 years	611	25.5	0.2	19.4	20.5	21.4	22.4	24.7	27.9	30.0	31.1	33.7
20–39 years	570	27.2	0.3	21.2	22.0	22.8	24.0	26.7	29.8	31.6	32.6	34.9
40–59 years	427	28.2	0.2	22.3	23.4	24.1	25.6	27.9	30.6	31.7	33.0	35.4
60–79 years	443	27.5	0.2	21.4	22.7	23.4	24.6	27.2	30.0	31.7	32.7	34.5
80 years and older	48	24.2	0.4	18.7	20.7	21.3	21.8	23.7	26.2	27.5	28.1	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	29.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	30.0	0.1	22.8	24.2	25.2	26.7	29.5	32.7	34.8	36.2	38.3
Age:												
8–11 years	280	11.8	0.2	8.2	8.8	9.2	10.0	11.7	13.1	14.3	15.0	16.8
12–15 years	438	20.0	0.3	11.8	13.1	14.3	15.8	20.0	23.6	25.6	27.0	29.3
16–19 years	447	27.1	0.2	20.8	21.9	22.5	24.0	26.7	29.6	31.7	32.9	35.0
20–39 years	934	29.7	0.2	22.6	24.0	24.9	26.5	29.0	32.3	34.6	35.8	39.0
40–59 years	1,013	30.8	0.2	23.8	25.5	26.3	27.7	30.4	33.3	35.4	36.9	38.8
60–79 years	975	29.5	0.2	22.5	23.8	24.7	26.3	29.1	32.4	34.3	35.7	37.3
80 years and older	398	25.9	0.2	20.3	21.7	22.5	23.7	25.6	28.0	29.7	30.8	32.3
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	28.7	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	29.0	0.2	21.7	23.0	23.8	25.3	28.3	31.9	34.0	35.8	38.9
Age:												
8–11 years	359	12.0	0.2	8.1	8.9	9.3	10.1	11.5	13.3	14.9	15.9	17.4
12–15 years	566	20.0	0.2	11.7	13.2	14.1	16.2	19.9	23.2	25.2	26.9	29.0
16–19 years	551	26.1	0.2	19.5	20.8	21.4	22.7	25.5	28.4	30.5	31.8	34.7
20–39 years	450	29.0	0.3	22.0	23.1	23.8	25.1	28.3	31.6	34.1	36.0	39.8
40–59 years	435	29.3	0.2	21.6	23.4	24.2	25.9	28.7	32.3	34.3	35.9	38.6
60–79 years	324	28.2	0.3	20.7	22.3	23.1	24.7	27.8	31.2	33.2	34.7	36.7
80 years and older	36	24.6	0.7	†	†	19.5	22.3	24.6	26.7	27.8	29.6	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	21.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	21.2	0.1	16.1	17.0	17.7	18.6	20.7	23.3	25.0	26.3	28.1
Age:												
8–11 years	1,082	11.9	0.1	7.3	7.9	8.5	9.3	11.4	13.9	15.2	16.3	17.8
12–15 years	1,780	17.6	0.1	12.9	13.9	14.5	15.7	17.4	19.3	20.5	21.5	23.2
16–19 years	1,513	19.5	0.1	15.0	15.8	16.4	17.3	19.1	21.1	22.5	23.6	25.1
20–39 years	2,043	21.1	0.1	16.0	17.0	17.6	18.7	20.5	23.0	24.8	26.0	27.8
40–59 years	2,049	21.9	0.1	16.6	17.5	18.2	19.1	21.4	24.0	25.7	27.1	29.3
60–79 years	1,846	20.8	0.1	16.1	16.9	17.5	18.4	20.4	22.7	24.2	25.3	27.1
80 years and older	594	18.7	0.2	14.6	15.3	15.9	16.7	18.5	20.5	21.6	22.6	24.1

See footnotes at end of table.

Table 14. Trunk lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	20.6	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	20.7	0.1	15.7	16.7	17.3	18.2	20.3	22.8	24.5	25.6	27.0
Age:												
8–11 years	342	11.3	0.2	7.2	7.6	8.0	8.8	10.5	13.4	14.8	15.5	17.4
12–15 years	632	17.4	0.2	12.9	13.9	14.5	15.3	17.0	19.2	20.2	21.5	23.4
16–19 years	533	18.7	0.2	14.4	15.1	15.7	16.4	18.2	20.4	21.6	22.7	25.0
20–39 years	492	20.5	0.2	15.5	16.5	17.2	18.1	20.0	22.5	24.2	25.2	26.9
40–59 years	442	21.4	0.2	16.3	17.1	17.8	18.8	21.0	23.6	25.4	26.0	27.8
60–79 years	457	20.1	0.2	15.5	16.4	17.0	17.8	19.8	22.0	23.4	24.3	25.4
80 years and older	47	17.1	0.5	13.2	14.4	14.9	15.5	16.8	18.4	19.0	20.0	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	21.4	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	21.4	0.1	16.4	17.2	17.9	18.8	20.8	23.3	25.0	26.3	28.1
Age:												
8–11 years	281	11.9	0.2	7.3	8.1	8.7	9.4	11.6	13.9	15.0	16.0	17.8
12–15 years	448	17.6	0.2	12.5	13.9	14.5	15.8	17.5	19.4	20.5	21.3	22.8
16–19 years	409	19.7	0.1	15.6	16.3	16.9	17.6	19.4	21.3	22.9	24.0	25.0
20–39 years	907	21.3	0.1	16.7	17.4	18.0	18.9	20.7	23.0	24.8	25.9	27.6
40–59 years	964	22.1	0.1	16.9	17.8	18.3	19.2	21.5	24.1	26.0	27.4	29.3
60–79 years	922	20.8	0.1	16.3	17.0	17.6	18.5	20.4	22.7	24.2	25.3	27.0
80 years and older	457	18.8	0.2	14.7	15.4	16.0	16.7	18.5	20.5	21.6	22.7	24.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	22.1	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	22.2	0.1	16.5	17.6	18.3	19.1	21.6	24.5	26.2	27.5	29.7
Age:												
8–11 years	373	12.1	0.2	7.3	8.3	8.8	9.6	11.5	14.1	16.1	17.0	18.2
12–15 years	558	18.1	0.2	13.7	14.6	15.1	15.9	17.7	19.9	21.3	22.2	23.8
16–19 years	435	19.8	0.2	15.2	15.8	16.3	17.2	19.1	21.6	23.2	24.6	27.0
20–39 years	455	21.9	0.2	16.2	17.4	18.0	18.9	21.0	24.5	26.5	27.6	29.7
40–59 years	453	22.7	0.2	16.8	18.2	18.6	19.8	22.2	24.9	26.3	27.7	30.3
60–79 years	346	22.1	0.2	17.0	17.7	18.3	19.2	21.9	24.2	25.7	27.0	28.6
80 years and older	58	19.4	0.5	13.6	15.3	15.9	17.1	19.2	21.4	22.8	23.5	24.6

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Trunk lean soft tissue mass does not include bone mineral content.

Table 15. Trunk fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	30.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	30.1	0.1	22.5	23.9	25.0	26.7	29.6	33.0	35.0	36.6	39.0
Age:												
8–11 years	1,067	12.1	0.1	8.4	8.9	9.4	10.2	11.8	13.6	14.8	16.1	17.5
12–15 years	1,726	20.3	0.2	12.0	13.3	14.3	16.2	20.2	24.0	26.1	27.5	29.8
16–19 years	1,751	27.2	0.2	20.8	21.7	22.6	24.0	26.7	29.8	32.0	33.4	35.7
20–39 years	2,183	29.8	0.2	22.4	23.7	24.7	26.1	29.1	32.6	34.7	36.5	39.6
40–59 years	2,024	30.9	0.1	23.4	24.9	26.1	27.6	30.5	33.7	35.7	37.2	39.2
60–79 years	1,851	29.7	0.2	22.3	23.6	24.7	26.3	29.3	32.8	34.4	36.1	37.9
80 years and older	501	26.3	0.2	20.2	21.8	22.7	24.0	26.0	28.3	30.3	31.4	33.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	28.1	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	28.1	0.2	21.9	22.9	23.6	24.9	27.7	30.7	32.4	33.4	35.9
Age:												
8–11 years	348	12.4	0.2	8.4	8.9	9.2	10.0	11.8	14.0	16.1	16.9	18.4
12–15 years	599	20.3	0.2	12.1	13.3	14.9	16.8	20.1	23.6	25.5	26.8	28.5
16–19 years	611	26.1	0.2	19.9	21.0	21.9	22.9	25.3	28.6	30.8	31.9	34.4
20–39 years	570	27.8	0.3	21.7	22.5	23.3	24.6	27.4	30.4	32.3	33.3	35.7
40–59 years	427	28.8	0.2	22.7	23.9	24.7	26.2	28.6	31.2	32.4	33.7	36.2
60–79 years	443	28.1	0.2	21.9	23.2	23.9	25.2	27.8	30.7	32.4	33.4	35.2
80 years and older	48	24.7	0.4	19.1	21.1	21.7	22.3	24.2	26.8	28.1	28.7	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	30.6	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	30.7	0.1	23.4	24.8	25.8	27.3	30.2	33.4	35.5	36.9	39.1
Age:												
8–11 years	280	12.1	0.2	8.4	9.0	9.5	10.3	11.9	13.4	14.5	15.4	17.2
12–15 years	438	20.5	0.3	12.1	13.4	14.6	16.1	20.5	24.2	26.3	27.5	29.9
16–19 years	447	27.8	0.2	21.3	22.4	23.1	24.6	27.5	30.4	32.5	33.8	35.9
20–39 years	934	30.4	0.2	23.2	24.5	25.5	27.1	29.7	33.1	35.4	36.6	39.9
40–59 years	1,013	31.5	0.2	24.4	26.0	26.9	28.3	31.1	34.1	36.1	37.7	39.6
60–79 years	975	30.2	0.2	23.0	24.3	25.2	26.9	29.8	33.1	35.0	36.5	38.1
80 years and older	398	26.5	0.2	20.7	22.2	22.9	24.2	26.2	28.6	30.4	31.5	33.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	29.5	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	29.7	0.2	22.3	23.6	24.4	26.0	29.0	32.7	34.8	36.7	39.9
Age:												
8–11 years	359	12.3	0.2	8.3	9.1	9.5	10.3	11.7	13.6	15.2	16.2	17.8
12–15 years	566	20.5	0.2	12.0	13.5	14.5	16.6	20.4	23.8	25.9	27.6	29.7
16–19 years	551	26.8	0.2	20.0	21.3	21.9	23.4	26.3	29.1	31.3	32.7	35.7
20–39 years	450	29.8	0.3	22.6	23.7	24.4	25.7	29.0	32.4	35.0	36.9	40.9
40–59 years	435	30.0	0.2	22.3	24.0	24.8	26.6	29.5	33.1	35.1	36.8	39.5
60–79 years	324	28.9	0.3	21.2	22.8	23.7	25.3	28.5	31.9	34.0	35.5	37.6
80 years and older	36	25.2	0.7	†	†	20.0	22.9	25.2	27.3	28.6	30.3	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	21.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	21.8	0.1	16.5	17.4	18.1	19.1	21.2	23.9	25.6	26.9	28.8
Age:												
8–11 years	1,082	12.1	0.2	7.5	8.1	8.7	9.5	11.7	14.2	15.6	16.7	18.3
12–15 years	1,780	18.1	0.1	13.3	14.3	15.0	16.2	17.9	19.9	21.1	22.1	23.9
16–19 years	1,513	20.0	0.1	15.5	16.3	16.8	17.8	19.7	21.7	23.1	24.3	25.8
20–39 years	2,043	21.7	0.1	16.5	17.5	18.2	19.2	21.1	23.7	25.5	26.7	28.5
40–59 years	2,049	22.5	0.1	17.0	18.0	18.7	19.6	21.9	24.6	26.4	27.8	30.0
60–79 years	1,846	21.3	0.1	16.4	17.3	17.9	18.8	20.8	23.3	24.8	25.9	27.6
80 years and older	594	19.1	0.2	14.9	15.6	16.2	17.1	18.9	20.9	22.1	23.1	24.5

See footnotes at end of table.

Table 15. Trunk fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	21.1	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	21.2	0.1	16.2	17.1	17.8	18.7	20.8	23.4	25.0	26.2	27.6
Age:												
8–11 years	342	11.6	0.2	7.4	7.8	8.2	9.1	10.8	13.7	15.2	15.9	17.9
12–15 years	632	17.9	0.2	13.3	14.2	14.8	15.8	17.5	19.8	20.7	22.1	24.0
16–19 years	533	19.3	0.2	14.8	15.6	16.1	16.9	18.7	20.9	22.3	23.3	25.7
20–39 years	492	21.1	0.2	16.0	17.0	17.8	18.6	20.6	23.1	24.8	25.9	27.6
40–59 years	442	22.0	0.2	16.8	17.6	18.2	19.3	21.4	24.2	26.0	26.7	28.4
60–79 years	457	20.5	0.2	15.9	16.8	17.4	18.2	20.3	22.4	23.9	24.7	25.9
80 years and older	47	17.5	0.5	13.5	14.7	15.2	15.8	17.1	18.7	19.4	20.5	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	21.9	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	21.9	0.1	16.9	17.7	18.4	19.3	21.3	23.9	25.6	26.9	28.8
Age:												
8–11 years	281	12.2	0.2	7.5	8.3	8.9	9.6	11.8	14.2	15.4	16.5	18.3
12–15 years	448	18.1	0.2	12.8	14.3	14.9	16.2	18.0	19.9	21.0	21.9	23.5
16–19 years	409	20.3	0.2	16.0	16.8	17.3	18.1	19.9	21.9	23.5	24.6	25.8
20–39 years	907	21.9	0.1	17.1	17.9	18.5	19.5	21.2	23.7	25.4	26.6	28.3
40–59 years	964	22.7	0.1	17.3	18.3	18.8	19.8	22.0	24.7	26.6	28.0	30.0
60–79 years	922	21.3	0.1	16.7	17.4	18.0	19.0	20.9	23.2	24.7	25.9	27.6
80 years and older	457	19.2	0.2	15.1	15.7	16.3	17.1	18.9	20.9	22.1	23.1	24.6
Non-Hispanic black:												
20 years and older, age adjusted	1,312	22.7	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	22.8	0.1	16.9	18.1	18.8	19.7	22.2	25.2	26.9	28.2	30.4
Age:												
8–11 years	373	12.4	0.2	7.5	8.5	9.0	9.8	11.7	14.4	16.4	17.4	18.7
12–15 years	558	18.6	0.2	14.1	15.0	15.6	16.4	18.3	20.5	22.0	22.8	24.5
16–19 years	435	20.4	0.2	15.7	16.3	16.8	17.7	19.7	22.2	23.9	25.3	27.7
20–39 years	455	22.6	0.2	16.7	18.0	18.6	19.5	21.6	25.2	27.2	28.4	30.5
40–59 years	453	23.3	0.2	17.3	18.7	19.2	20.4	22.8	25.5	27.0	28.4	31.0
60–79 years	346	22.6	0.2	17.3	18.2	18.7	19.6	22.4	24.7	26.3	27.6	29.2
80 years and older	58	19.8	0.5	13.9	15.7	16.3	17.5	19.6	21.8	23.2	24.1	25.1

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Trunk fat-free mass includes bone mineral content.

Table 16. Left arm total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	5.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	5.3	0.0	3.6	3.9	4.1	4.5	5.2	6.0	6.5	6.9	7.5
Age:												
8–11 years	1,067	2.1	0.0	1.2	1.4	1.4	1.6	1.9	2.4	2.7	3.0	3.6
12–15 years	1,726	3.5	0.0	1.9	2.2	2.3	2.7	3.3	4.1	4.6	5.1	5.6
16–19 years	1,751	4.6	0.0	3.2	3.3	3.5	3.8	4.4	5.2	5.7	6.2	6.8
20–39 years	2,183	5.3	0.0	3.6	3.9	4.1	4.4	5.1	6.0	6.5	6.9	7.6
40–59 years	2,024	5.5	0.0	3.8	4.1	4.4	4.7	5.4	6.1	6.6	7.0	7.6
60–79 years	1,851	5.2	0.0	3.5	3.8	4.0	4.4	5.0	5.8	6.2	6.7	7.1
80 years and older	501	4.3	0.0	3.0	3.3	3.5	3.7	4.2	4.7	5.1	5.4	5.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	4.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	5.0	0.0	3.5	3.7	3.9	4.2	4.8	5.5	6.0	6.3	6.9
Age:												
8–11 years	348	2.2	0.0	1.2	1.3	1.4	1.6	1.9	2.7	3.0	3.2	3.9
12–15 years	599	3.5	0.1	1.8	2.2	2.4	2.7	3.4	4.1	4.5	4.8	5.5
16–19 years	611	4.5	0.1	3.1	3.2	3.4	3.7	4.2	5.1	5.6	5.9	6.7
20–39 years	570	4.9	0.1	3.4	3.7	3.8	4.2	4.7	5.5	6.0	6.3	7.1
40–59 years	427	5.1	0.0	3.6	3.9	4.1	4.4	4.9	5.6	6.0	6.3	6.7
60–79 years	443	4.8	0.1	3.5	3.7	3.8	4.1	4.7	5.3	5.7	6.1	6.6
80 years and older	48	3.9	0.1	†	†	†	3.5	3.8	4.1	4.4	4.6	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	5.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	5.4	0.0	3.7	4.0	4.2	4.6	5.3	6.0	6.5	6.9	7.5
Age:												
8–11 years	280	2.1	0.0	1.2	1.4	1.4	1.6	1.9	2.4	2.6	3.0	3.5
12–15 years	438	3.5	0.1	1.9	2.1	2.3	2.6	3.4	4.1	4.6	5.0	5.6
16–19 years	447	4.7	0.0	3.2	3.4	3.5	3.8	4.5	5.3	5.8	6.2	6.7
20–39 years	934	5.4	0.0	3.6	4.0	4.2	4.5	5.2	6.0	6.5	6.9	7.6
40–59 years	1,013	5.6	0.0	3.9	4.3	4.5	4.8	5.5	6.2	6.7	7.0	7.7
60–79 years	975	5.2	0.0	3.7	4.0	4.1	4.4	5.1	5.9	6.3	6.7	7.1
80 years and older	398	4.3	0.0	3.0	3.3	3.5	3.7	4.2	4.7	5.1	5.3	5.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	5.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	5.7	0.1	3.7	4.0	4.3	4.7	5.4	6.4	7.0	7.4	8.3
Age:												
8–11 years	359	2.2	0.0	1.3	1.4	1.6	1.7	2.0	2.5	2.9	3.4	4.1
12–15 years	566	3.7	0.1	2.0	2.3	2.4	2.9	3.5	4.4	4.9	5.3	6.2
16–19 years	551	4.8	0.1	3.3	3.5	3.7	3.9	4.5	5.3	6.0	6.6	7.5
20–39 years	450	5.7	0.1	3.7	4.0	4.3	4.6	5.3	6.5	7.0	7.6	8.7
40–59 years	435	5.8	0.1	3.8	4.2	4.4	4.8	5.6	6.5	7.0	7.4	8.2
60–79 years	324	5.4	0.1	3.4	3.8	4.1	4.5	5.3	6.1	6.6	7.1	7.7
80 years and older	36	4.6	0.2	†	3.2	3.7	4.0	4.5	5.0	5.5	5.8	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	4.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	4.1	0.0	2.5	2.7	2.9	3.2	3.8	4.6	5.3	5.7	6.5
Age:												
8–11 years	1,082	2.2	0.0	1.2	1.3	1.4	1.6	2.0	2.6	2.9	3.2	3.5
12–15 years	1,780	3.1	0.0	2.0	2.2	2.3	2.5	2.9	3.4	4.0	4.3	4.8
16–19 years	1,513	3.5	0.0	2.3	2.4	2.6	2.8	3.2	3.8	4.4	4.9	5.5
20–39 years	2,043	3.9	0.0	2.5	2.7	2.8	3.1	3.6	4.5	5.2	5.7	6.5
40–59 years	2,049	4.2	0.0	2.6	2.8	3.0	3.3	4.0	4.8	5.5	6.0	6.9
60–79 years	1,846	4.1	0.0	2.6	2.8	3.0	3.3	3.9	4.6	5.2	5.6	6.2
80 years and older	594	3.4	0.1	2.2	2.3	2.5	2.8	3.3	3.9	4.2	4.5	5.1

See footnotes at end of table.

Table 16. Left arm total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	4.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	4.0	0.0	2.5	2.7	2.9	3.1	3.8	4.5	5.1	5.4	6.1
Age:												
8–11 years	342	2.0	0.0	1.2	1.2	1.3	1.5	1.9	2.4	2.8	3.1	3.4
12–15 years	632	3.1	0.0	2.0	2.2	2.3	2.5	2.9	3.5	3.9	4.3	5.0
16–19 years	533	3.4	0.0	2.2	2.3	2.5	2.7	3.1	3.8	4.3	4.6	5.5
20–39 years	492	3.8	0.1	2.5	2.7	2.8	3.0	3.6	4.3	5.0	5.2	5.9
40–59 years	442	4.2	0.1	2.7	2.9	3.1	3.4	4.0	4.8	5.2	5.6	6.4
60–79 years	457	4.0	0.1	2.6	2.8	3.0	3.3	3.8	4.4	5.0	5.4	5.9
80 years and older	47	3.1	0.1	†	†	2.3	2.7	3.0	3.4	3.8	3.9	4.1
Non-Hispanic white:												
20 years and older, age adjusted	3,250	4.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	4.0	0.0	2.5	2.7	2.9	3.1	3.7	4.6	5.1	5.6	6.4
Age:												
8–11 years	281	2.1	0.0	1.2	1.3	1.4	1.6	2.0	2.6	2.8	3.1	3.4
12–15 years	448	3.0	0.0	1.9	2.1	2.2	2.5	2.9	3.4	3.9	4.2	4.5
16–19 years	409	3.4	0.0	2.3	2.5	2.6	2.8	3.2	3.8	4.4	4.9	5.3
20–39 years	907	3.8	0.0	2.5	2.7	2.8	3.0	3.5	4.4	4.9	5.4	6.2
40–59 years	964	4.2	0.1	2.6	2.8	3.0	3.2	3.9	4.8	5.4	5.8	6.8
60–79 years	922	4.0	0.0	2.6	2.8	3.0	3.3	3.8	4.5	5.0	5.4	6.0
80 years and older	457	3.4	0.1	2.2	2.4	2.5	2.8	3.3	3.9	4.3	4.5	5.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	4.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	4.8	0.0	2.9	3.2	3.4	3.7	4.5	5.6	6.3	6.9	7.6
Age:												
8–11 years	373	2.4	0.1	1.3	1.4	1.5	1.7	2.2	2.8	3.2	3.4	4.0
12–15 years	558	3.4	0.1	2.2	2.4	2.5	2.7	3.1	3.9	4.5	5.1	5.8
16–19 years	435	3.9	0.1	2.4	2.6	2.7	2.9	3.4	4.5	5.2	5.9	7.1
20–39 years	455	4.6	0.1	2.8	3.0	3.3	3.6	4.2	5.5	6.2	6.9	7.6
40–59 years	453	5.0	0.1	3.1	3.3	3.5	3.9	4.6	5.7	6.5	7.0	7.9
60–79 years	346	4.9	0.1	2.9	3.3	3.5	3.9	4.7	5.6	6.2	6.8	7.4
80 years and older	58	3.8	0.1	2.4	2.8	2.9	3.2	3.8	4.1	4.4	4.8	5.3

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 17. Left arm fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	1.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	1.4	0.0	0.6	0.7	0.8	1.0	1.3	1.6	1.9	2.1	2.5
Age:												
8–11 years	1,067	0.7	0.0	0.2	0.2	0.3	0.3	0.5	0.8	1.1	1.3	1.7
12–15 years	1,726	0.9	0.0	0.3	0.4	0.4	0.5	0.7	1.2	1.5	1.7	2.2
16–19 years	1,751	1.0	0.0	0.4	0.5	0.5	0.6	0.8	1.3	1.6	1.9	2.3
20–39 years	2,183	1.3	0.0	0.5	0.6	0.7	0.8	1.1	1.5	1.8	2.0	2.4
40–59 years	2,024	1.4	0.0	0.7	0.8	0.9	1.0	1.3	1.7	2.0	2.2	2.5
60–79 years	1,851	1.5	0.0	0.8	0.9	1.0	1.1	1.4	1.8	2.1	2.2	2.6
80 years and older	501	1.3	0.0	0.7	0.8	0.9	1.0	1.2	1.6	1.7	1.8	2.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	1.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	1.2	0.0	0.6	0.7	0.8	0.9	1.2	1.5	1.7	1.8	2.2
Age:												
8–11 years	348	0.8	0.0	0.2	0.3	0.3	0.4	0.6	1.0	1.3	1.5	1.9
12–15 years	599	0.9	0.0	0.3	0.4	0.4	0.5	0.8	1.3	1.5	1.7	2.0
16–19 years	611	1.1	0.0	0.4	0.5	0.5	0.6	0.8	1.3	1.6	1.9	2.4
20–39 years	570	1.2	0.0	0.5	0.6	0.7	0.9	1.1	1.4	1.7	1.8	2.2
40–59 years	427	1.3	0.0	0.7	0.8	0.9	1.0	1.2	1.5	1.7	1.8	2.2
60–79 years	443	1.3	0.0	0.7	0.8	0.9	1.0	1.2	1.6	1.8	2.0	2.2
80 years and older	48	1.1	0.1	0.6	0.7	0.8	0.8	1.1	1.3	1.4	1.5	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	1.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	1.4	0.0	0.6	0.8	0.8	1.0	1.3	1.7	2.0	2.2	2.5
Age:												
8–11 years	280	0.6	0.0	0.2	0.2	0.3	0.3	0.5	0.8	1.0	1.2	1.6
12–15 years	438	0.9	0.0	0.3	0.4	0.4	0.5	0.7	1.1	1.5	1.7	2.2
16–19 years	447	1.0	0.0	0.4	0.5	0.5	0.6	0.8	1.3	1.6	1.8	2.3
20–39 years	934	1.3	0.0	0.5	0.6	0.7	0.8	1.2	1.5	1.9	2.1	2.4
40–59 years	1,013	1.5	0.0	0.7	0.9	1.0	1.1	1.3	1.8	2.0	2.2	2.6
60–79 years	975	1.5	0.0	0.8	0.9	1.0	1.1	1.4	1.8	2.1	2.3	2.6
80 years and older	398	1.3	0.0	0.7	0.8	0.9	1.0	1.2	1.6	1.8	1.8	2.1
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	1.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	1.3	0.0	0.5	0.6	0.7	0.8	1.2	1.6	1.9	2.2	2.7
Age:												
8–11 years	359	0.6	0.0	0.2	0.2	0.2	0.3	0.4	0.7	1.1	1.3	1.7
12–15 years	566	0.9	0.0	0.3	0.3	0.4	0.4	0.6	1.1	1.5	1.8	2.3
16–19 years	551	1.0	0.0	0.4	0.4	0.4	0.5	0.6	1.1	1.6	1.9	2.6
20–39 years	450	1.2	0.0	0.4	0.5	0.6	0.7	1.0	1.5	1.8	2.1	2.6
40–59 years	435	1.4	0.0	0.6	0.6	0.7	0.9	1.2	1.6	1.9	2.2	2.7
60–79 years	324	1.5	0.0	0.6	0.7	0.8	1.0	1.3	1.8	2.1	2.3	2.7
80 years and older	36	1.3	0.1	†	0.7	0.8	0.9	1.2	1.6	1.7	2.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	1.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	1.8	0.0	0.7	0.9	1.0	1.2	1.6	2.2	2.6	2.9	3.5
Age:												
8–11 years	1,082	0.8	0.0	0.3	0.3	0.3	0.4	0.6	1.0	1.2	1.4	1.7
12–15 years	1,780	1.1	0.0	0.4	0.5	0.6	0.7	1.0	1.4	1.7	2.0	2.2
16–19 years	1,513	1.3	0.0	0.6	0.7	0.7	0.9	1.1	1.6	2.0	2.3	2.7
20–39 years	2,043	1.7	0.0	0.7	0.8	0.9	1.1	1.4	2.0	2.4	2.8	3.5
40–59 years	2,049	1.9	0.0	0.8	0.9	1.1	1.3	1.7	2.3	2.8	3.1	3.8
60–79 years	1,846	1.9	0.0	0.9	1.1	1.2	1.4	1.8	2.3	2.7	3.0	3.4
80 years and older	594	1.6	0.0	0.7	0.8	0.9	1.1	1.5	1.9	2.2	2.3	2.7

See footnotes at end of table.

Table 17. Left arm fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	1.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	1.8	0.0	0.9	1.0	1.1	1.2	1.6	2.1	2.5	2.8	3.2
Age:												
8–11 years	342	0.8	0.0	0.3	0.3	0.4	0.4	0.6	1.0	1.2	1.4	1.7
12–15 years	632	1.2	0.0	0.5	0.6	0.6	0.7	1.0	1.4	1.7	2.0	2.4
16–19 years	533	1.3	0.0	0.6	0.7	0.8	0.9	1.2	1.6	2.0	2.2	2.7
20–39 years	492	1.6	0.0	0.8	0.9	1.0	1.1	1.5	2.0	2.3	2.6	3.0
40–59 years	442	2.0	0.0	1.0	1.1	1.2	1.4	1.8	2.3	2.7	3.0	3.4
60–79 years	457	1.9	0.0	0.9	1.1	1.2	1.4	1.8	2.3	2.6	2.9	3.2
80 years and older	47	1.4	0.1	†	†	0.8	1.0	1.3	1.7	2.0	2.1	2.2
Non-Hispanic white:												
20 years and older, age adjusted	3,250	1.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	1.8	0.0	0.7	0.9	1.0	1.2	1.6	2.2	2.6	2.9	3.4
Age:												
8–11 years	281	0.8	0.0	0.3	0.3	0.3	0.4	0.6	1.0	1.2	1.3	1.6
12–15 years	448	1.1	0.0	0.4	0.5	0.5	0.6	0.9	1.3	1.6	1.9	2.2
16–19 years	409	1.3	0.0	0.6	0.7	0.7	0.9	1.1	1.5	2.0	2.3	2.7
20–39 years	907	1.6	0.0	0.7	0.8	0.9	1.0	1.4	1.9	2.3	2.7	3.3
40–59 years	964	1.9	0.0	0.8	0.9	1.0	1.2	1.7	2.3	2.7	3.1	3.7
60–79 years	922	1.9	0.0	0.9	1.1	1.2	1.4	1.8	2.3	2.6	2.9	3.3
80 years and older	457	1.6	0.0	0.7	0.8	0.9	1.1	1.5	1.9	2.2	2.3	2.7
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.1	0.0	0.8	1.0	1.1	1.4	1.9	2.6	3.2	3.5	4.1
Age:												
8–11 years	373	0.8	0.0	0.2	0.3	0.3	0.4	0.6	1.1	1.3	1.5	1.8
12–15 years	558	1.2	0.0	0.4	0.5	0.6	0.7	1.0	1.5	1.8	2.2	2.7
16–19 years	435	1.5	0.1	0.5	0.6	0.7	0.8	1.2	1.9	2.3	2.8	3.7
20–39 years	455	1.9	0.0	0.7	0.9	1.0	1.2	1.7	2.5	3.0	3.4	3.8
40–59 years	453	2.3	0.0	1.0	1.1	1.3	1.5	2.0	2.7	3.3	3.7	4.4
60–79 years	346	2.3	0.1	0.9	1.2	1.4	1.6	2.2	2.9	3.3	3.6	4.0
80 years and older	58	1.6	0.1	0.7	0.8	1.0	1.3	1.6	1.9	2.2	2.4	2.7

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 18. Left arm percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	25.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	25.6	0.1	15.1	17.1	18.7	21.1	25.2	29.7	32.3	34.4	37.2
Age:												
8–11 years	1,067	30.2	0.5	16.9	18.4	20.0	21.9	27.8	37.3	42.0	45.0	48.9
12–15 years	1,726	25.3	0.4	13.6	14.5	15.2	17.2	22.6	32.1	36.0	39.8	45.2
16–19 years	1,751	21.3	0.3	12.5	13.3	14.0	15.2	19.0	26.0	29.6	32.5	37.2
20–39 years	2,183	23.4	0.2	13.5	15.1	16.2	18.5	22.9	27.4	30.2	32.1	35.1
40–59 years	2,024	26.0	0.2	17.0	18.7	20.0	21.9	25.6	29.5	31.8	33.6	36.1
60–79 years	1,851	29.2	0.1	20.1	21.9	22.9	24.8	28.6	33.0	35.5	37.4	40.1
80 years and older	501	30.5	0.3	21.1	22.7	24.0	26.1	30.1	34.8	36.7	38.1	40.3
Mexican American:												
Age 20 years and older, age adjusted	1,488	26.0	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	25.2	0.2	16.3	18.2	19.6	21.4	24.8	28.4	30.6	32.1	35.1
Age:												
8–11 years	348	33.7	0.6	18.2	20.2	22.1	24.6	32.9	41.4	45.6	47.0	49.8
12–15 years	599	27.0	0.5	14.5	15.4	16.3	18.4	25.8	34.1	38.2	40.3	43.9
16–19 years	611	23.2	0.4	13.5	14.4	15.4	17.1	21.3	27.6	31.5	34.4	39.6
20–39 years	570	24.5	0.3	15.7	17.4	18.5	20.6	23.9	27.6	29.8	31.1	34.6
40–59 years	427	25.8	0.3	18.3	19.8	20.5	22.4	25.5	28.5	30.7	32.1	35.2
60–79 years	443	28.2	0.3	20.5	21.6	22.8	24.8	27.8	31.8	33.5	34.8	36.6
80 years and older	48	29.8	1.0	21.0	22.0	23.0	25.0	29.5	34.3	35.7	36.7	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	26.1	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	26.2	0.1	15.7	17.7	19.3	21.6	25.7	30.3	32.9	34.8	37.9
Age:												
8–11 years	280	30.5	0.7	17.5	19.7	20.6	22.7	27.9	36.9	41.8	44.9	49.2
12–15 years	438	25.7	0.6	13.9	14.7	15.9	17.5	22.7	32.3	35.9	40.1	45.7
16–19 years	447	21.5	0.4	12.7	13.8	14.4	15.5	19.4	26.3	29.7	32.2	36.8
20–39 years	934	23.6	0.2	13.8	15.2	16.4	18.6	23.0	27.5	30.5	32.5	35.1
40–59 years	1,013	26.4	0.2	17.5	19.3	20.5	22.2	25.8	29.8	32.3	34.0	36.6
60–79 years	975	29.7	0.2	20.6	22.1	23.4	25.4	29.1	33.4	36.1	37.8	40.9
80 years and older	398	30.6	0.3	21.1	22.8	24.0	26.4	30.2	34.9	36.7	38.1	40.4
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	23.3	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	22.8	0.2	12.3	13.8	15.1	17.4	22.5	26.9	29.6	31.9	35.5
Age:												
8–11 years	359	26.0	0.5	14.6	15.8	16.5	18.0	22.2	33.1	37.5	41.8	45.7
12–15 years	566	22.4	0.4	12.4	13.1	13.6	14.7	19.0	28.0	34.0	37.2	43.3
16–19 years	551	18.7	0.4	11.4	11.8	12.3	13.0	15.3	22.1	27.9	32.6	36.5
20–39 years	450	21.0	0.3	11.7	12.5	13.7	15.4	20.2	24.9	28.0	29.6	34.3
40–59 years	435	23.2	0.3	13.5	15.1	16.4	18.5	23.2	26.8	29.1	31.1	34.9
60–79 years	324	26.6	0.3	15.7	17.9	20.0	22.6	26.1	30.6	33.9	35.7	37.8
80 years and older	36	28.5	1.2	†	19.7	21.0	23.4	27.4	33.0	35.2	36.4	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	43.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	43.7	0.2	28.5	32.3	34.7	38.0	44.1	49.8	52.4	54.1	56.9
Age:												
8–11 years	1,082	34.9	0.4	20.9	23.0	24.6	27.1	34.5	42.7	45.3	47.8	50.6
12–15 years	1,780	35.0	0.4	21.0	23.1	24.8	28.7	35.1	41.2	44.4	46.7	50.0
16–19 years	1,513	37.7	0.3	24.9	26.9	28.7	31.9	37.2	43.4	46.6	48.9	51.8
20–39 years	2,043	40.9	0.3	26.0	29.7	32.0	35.1	40.8	46.7	50.1	52.0	54.7
40–59 years	2,049	44.3	0.2	29.9	33.3	35.9	38.7	44.6	50.1	52.8	54.5	57.3
60–79 years	1,846	47.1	0.2	34.6	37.5	39.7	42.5	47.6	52.0	54.3	56.2	58.0
80 years and older	594	45.2	0.4	29.2	33.1	36.6	39.7	46.3	51.2	53.4	55.3	57.6

See footnotes at end of table.

Table 18. Left arm percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	44.9	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	44.1	0.3	31.9	34.8	36.6	39.1	44.2	49.2	51.7	53.5	55.9
Age:												
8–11 years	342	36.5	0.5	22.7	24.5	26.7	29.8	35.6	43.0	46.3	48.6	52.2
12–15 years	632	37.4	0.3	23.6	26.3	28.7	32.3	37.7	42.3	45.5	47.6	50.6
16–19 years	533	39.4	0.4	27.6	29.5	31.2	34.2	39.2	44.6	47.5	49.1	52.2
20–39 years	492	42.4	0.4	30.6	33.2	35.1	37.2	42.4	47.2	49.9	51.5	54.4
40–59 years	442	45.9	0.4	34.9	37.2	38.6	40.9	45.9	50.7	53.1	54.9	57.1
60–79 years	457	47.5	0.3	36.1	38.2	40.3	43.0	47.5	52.4	54.4	56.2	58.8
80 years and older	47	46.0	1.4	†	32.9	36.2	42.0	46.0	51.7	54.1	54.4	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	43.3	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	43.8	0.2	28.2	32.1	34.4	38.0	44.3	50.1	52.7	54.4	57.2
Age:												
8–11 years	281	35.2	0.6	21.9	23.9	25.1	27.6	34.9	42.8	45.0	47.4	49.9
12–15 years	448	34.8	0.6	20.9	23.0	24.4	28.2	34.8	41.3	44.8	46.8	49.4
16–19 years	409	37.9	0.4	25.1	27.1	29.0	32.0	37.2	43.4	46.7	49.0	52.0
20–39 years	907	40.6	0.3	25.2	29.1	31.5	34.6	40.5	46.5	49.9	52.0	54.4
40–59 years	964	44.2	0.3	28.8	32.6	35.1	38.4	44.6	50.2	53.1	54.7	57.5
60–79 years	922	47.2	0.2	35.3	37.8	39.7	42.6	47.9	52.1	54.5	56.4	58.3
80 years and older	457	45.6	0.4	29.8	33.9	37.0	40.1	46.7	51.6	53.8	55.5	57.7
Non-Hispanic black:												
20 years and older, age adjusted	1,312	43.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	42.8	0.3	27.0	31.3	33.6	37.2	43.3	49.0	52.0	53.6	56.0
Age:												
8–11 years	373	32.6	0.5	18.3	19.6	20.8	24.2	31.8	40.4	44.7	46.7	49.9
12–15 years	558	32.8	0.4	19.0	21.3	23.0	25.4	31.7	39.2	43.0	45.1	49.1
16–19 years	435	35.6	0.5	20.2	23.3	25.5	28.4	34.6	42.0	46.3	48.5	52.7
20–39 years	455	40.3	0.4	24.0	27.8	31.0	34.2	40.7	46.4	49.9	51.8	53.4
40–59 years	453	44.3	0.4	30.6	34.2	36.2	38.7	44.5	49.6	52.8	54.6	56.8
60–79 years	346	46.0	0.5	31.0	34.8	37.2	41.3	46.9	51.8	54.0	55.6	57.7
80 years and older	58	43.1	1.2	†	31.1	34.9	38.5	43.2	48.6	50.3	51.6	†

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 19. Left arm lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.7	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.7	0.0	2.6	2.8	2.9	3.2	3.6	4.1	4.5	4.7	5.0
Age:												
8–11 years	1,067	1.3	0.0	0.9	1.0	1.0	1.1	1.3	1.5	1.7	1.8	1.9
12–15 years	1,726	2.4	0.0	1.3	1.5	1.6	1.9	2.4	2.9	3.2	3.4	3.7
16–19 years	1,751	3.4	0.0	2.4	2.6	2.7	2.9	3.3	3.8	4.0	4.2	4.5
20–39 years	2,183	3.8	0.0	2.7	2.9	3.0	3.2	3.7	4.2	4.5	4.8	5.2
40–59 years	2,024	3.8	0.0	2.7	2.9	3.1	3.3	3.8	4.2	4.5	4.7	5.0
60–79 years	1,851	3.4	0.0	2.4	2.6	2.7	2.9	3.3	3.8	4.1	4.3	4.5
80 years and older	501	2.7	0.0	2.0	2.2	2.3	2.4	2.7	3.0	3.2	3.4	3.6
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.5	0.0	2.5	2.7	2.8	3.0	3.4	3.8	4.1	4.3	4.6
Age:												
8–11 years	348	1.3	0.0	0.8	0.9	1.0	1.0	1.2	1.5	1.7	1.8	2.0
12–15 years	599	2.3	0.0	1.3	1.5	1.7	1.9	2.3	2.8	3.0	3.1	3.5
16–19 years	611	3.2	0.0	2.3	2.5	2.6	2.8	3.1	3.5	3.8	4.0	4.3
20–39 years	570	3.5	0.0	2.6	2.7	2.8	3.0	3.4	3.9	4.1	4.3	4.7
40–59 years	427	3.5	0.0	2.6	2.8	2.9	3.1	3.5	3.9	4.1	4.3	4.6
60–79 years	443	3.2	0.0	2.4	2.5	2.6	2.8	3.1	3.5	3.8	3.9	4.2
80 years and older	48	2.5	0.1	†	†	†	2.3	2.5	2.7	2.9	3.0	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.7	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	3.7	0.0	2.6	2.8	3.0	3.2	3.7	4.1	4.4	4.6	5.0
Age:												
8–11 years	280	1.3	0.0	0.9	1.0	1.0	1.1	1.2	1.5	1.6	1.7	1.8
12–15 years	438	2.4	0.0	1.3	1.5	1.6	1.8	2.3	2.9	3.1	3.3	3.6
16–19 years	447	3.4	0.0	2.5	2.6	2.7	2.9	3.3	3.8	4.1	4.2	4.5
20–39 years	934	3.8	0.0	2.7	2.9	3.1	3.3	3.7	4.3	4.5	4.7	5.1
40–59 years	1,013	3.8	0.0	2.8	3.0	3.2	3.4	3.8	4.2	4.5	4.7	5.0
60–79 years	975	3.4	0.0	2.4	2.6	2.7	2.9	3.4	3.8	4.1	4.3	4.5
80 years and older	398	2.7	0.0	2.0	2.2	2.3	2.5	2.7	3.0	3.2	3.4	3.6
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.0	0.0	2.8	3.0	3.2	3.4	4.0	4.6	4.9	5.2	5.6
Age:												
8–11 years	359	1.5	0.0	1.0	1.1	1.1	1.2	1.4	1.7	1.9	2.0	2.3
12–15 years	566	2.7	0.0	1.6	1.7	1.8	2.1	2.6	3.2	3.5	3.6	3.9
16–19 years	551	3.6	0.0	2.6	2.8	2.9	3.1	3.5	4.0	4.3	4.5	5.0
20–39 years	450	4.1	0.0	2.9	3.1	3.2	3.5	4.0	4.6	5.0	5.3	5.8
40–59 years	435	4.1	0.0	2.8	3.1	3.3	3.5	4.0	4.6	4.9	5.2	5.5
60–79 years	324	3.7	0.0	2.5	2.7	2.9	3.1	3.6	4.1	4.4	4.7	4.9
80 years and older	36	3.1	0.1	†	2.3	2.3	2.7	2.9	3.4	3.5	3.7	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	2.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	2.0	0.0	1.4	1.5	1.6	1.7	2.0	2.3	2.5	2.7	3.0
Age:												
8–11 years	1,082	1.3	0.0	0.8	0.8	0.9	1.0	1.2	1.5	1.6	1.8	1.9
12–15 years	1,780	1.8	0.0	1.3	1.4	1.5	1.6	1.8	2.0	2.1	2.3	2.5
16–19 years	1,513	1.9	0.0	1.4	1.5	1.5	1.6	1.9	2.1	2.3	2.5	2.7
20–39 years	2,043	2.1	0.0	1.5	1.6	1.6	1.7	2.0	2.3	2.5	2.7	3.0
40–59 years	2,049	2.1	0.0	1.4	1.6	1.6	1.8	2.0	2.4	2.6	2.8	3.0
60–79 years	1,846	1.9	0.0	1.4	1.5	1.5	1.6	1.9	2.2	2.4	2.5	2.8
80 years and older	594	1.7	0.0	1.2	1.3	1.3	1.4	1.7	1.9	2.0	2.2	2.3

See footnotes at end of table.

Table 19. Left arm lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	2.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	2.0	0.0	1.4	1.5	1.6	1.7	1.9	2.3	2.5	2.6	2.8
Age:												
8–11 years	342	1.2	0.0	0.7	0.8	0.8	0.9	1.1	1.4	1.5	1.6	1.7
12–15 years	632	1.7	0.0	1.3	1.3	1.4	1.5	1.7	1.9	2.1	2.2	2.5
16–19 years	533	1.8	0.0	1.3	1.4	1.4	1.5	1.8	2.0	2.2	2.4	2.6
20–39 years	492	2.0	0.0	1.4	1.5	1.6	1.7	1.9	2.2	2.5	2.6	2.8
40–59 years	442	2.1	0.0	1.4	1.5	1.6	1.7	2.0	2.3	2.5	2.6	2.8
60–79 years	457	1.9	0.0	1.3	1.4	1.5	1.6	1.8	2.1	2.3	2.4	2.6
80 years and older	47	1.5	0.0	†	1.1	1.3	1.3	1.4	1.6	1.7	1.8	2.0
Non-Hispanic white:												
20 years and older, age adjusted	3,250	2.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	2.0	0.0	1.4	1.5	1.6	1.7	1.9	2.2	2.4	2.6	2.8
Age:												
8–11 years	281	1.2	0.0	0.8	0.9	0.9	1.0	1.2	1.4	1.6	1.7	1.9
12–15 years	448	1.8	0.0	1.3	1.4	1.4	1.5	1.7	2.0	2.1	2.1	2.3
16–19 years	409	1.9	0.0	1.4	1.5	1.6	1.6	1.9	2.1	2.3	2.4	2.6
20–39 years	907	2.0	0.0	1.5	1.6	1.6	1.7	2.0	2.2	2.5	2.6	2.8
40–59 years	964	2.1	0.0	1.4	1.6	1.6	1.7	2.0	2.3	2.5	2.7	2.9
60–79 years	922	1.9	0.0	1.4	1.4	1.5	1.6	1.9	2.1	2.3	2.4	2.6
80 years and older	457	1.7	0.0	1.2	1.3	1.3	1.4	1.7	1.9	2.0	2.1	2.3
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.4	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.5	0.0	1.7	1.8	1.9	2.0	2.4	2.8	3.1	3.2	3.5
Age:												
8–11 years	373	1.4	0.0	0.8	1.0	1.0	1.1	1.4	1.7	1.8	1.9	2.1
12–15 years	558	2.1	0.0	1.5	1.6	1.7	1.8	2.0	2.3	2.5	2.6	2.9
16–19 years	435	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.5	2.7	2.9	3.3
20–39 years	455	2.5	0.0	1.7	1.8	1.9	2.0	2.4	2.9	3.2	3.3	3.6
40–59 years	453	2.5	0.0	1.7	1.8	1.9	2.1	2.4	2.8	3.0	3.2	3.6
60–79 years	346	2.4	0.0	1.6	1.8	1.9	2.0	2.3	2.7	2.9	3.0	3.3
80 years and older	58	2.0	0.0	1.4	1.5	1.6	1.7	2.0	2.2	2.3	2.4	2.5

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Left arm lean soft tissue does not include bone mineral content.

Table 20. Left arm fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.9	0.0	2.7	2.9	3.1	3.4	3.9	4.4	4.7	4.9	5.3
Age:												
8–11 years	1,067	1.4	0.0	0.9	1.0	1.1	1.2	1.4	1.6	1.7	1.9	2.0
12–15 years	1,726	2.6	0.0	1.4	1.6	1.7	2.0	2.5	3.1	3.4	3.6	3.8
16–19 years	1,751	3.6	0.0	2.6	2.7	2.9	3.1	3.5	4.0	4.3	4.5	4.8
20–39 years	2,183	4.0	0.0	2.8	3.0	3.2	3.4	3.9	4.5	4.8	5.0	5.5
40–59 years	2,024	4.0	0.0	2.9	3.1	3.3	3.5	4.0	4.5	4.8	5.0	5.3
60–79 years	1,851	3.6	0.0	2.6	2.8	2.9	3.1	3.6	4.0	4.3	4.5	4.8
80 years and older	501	2.9	0.0	2.2	2.3	2.5	2.6	2.9	3.2	3.5	3.6	3.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.7	0.0	2.7	2.9	3.0	3.2	3.6	4.1	4.3	4.6	4.8
Age:												
8–11 years	348	1.4	0.0	0.9	1.0	1.0	1.1	1.3	1.5	1.8	1.9	2.1
12–15 years	599	2.5	0.0	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.3	3.7
16–19 years	611	3.4	0.0	2.5	2.6	2.8	2.9	3.3	3.7	4.0	4.2	4.5
20–39 years	570	3.7	0.0	2.7	2.9	3.0	3.2	3.6	4.1	4.4	4.6	4.9
40–59 years	427	3.7	0.0	2.8	2.9	3.1	3.3	3.7	4.1	4.3	4.5	4.8
60–79 years	443	3.4	0.0	2.5	2.7	2.8	3.0	3.3	3.8	4.0	4.2	4.4
80 years and older	48	2.7	0.1	†	†	†	2.4	2.7	2.9	3.0	3.2	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	3.9	0.0	2.8	3.0	3.1	3.4	3.9	4.4	4.7	4.9	5.2
Age:												
8–11 years	280	1.4	0.0	0.9	1.0	1.1	1.1	1.3	1.5	1.7	1.8	1.9
12–15 years	438	2.5	0.0	1.4	1.5	1.7	1.9	2.5	3.1	3.3	3.5	3.8
16–19 years	447	3.6	0.0	2.6	2.8	2.9	3.1	3.5	4.0	4.3	4.5	4.8
20–39 years	934	4.0	0.0	2.9	3.1	3.3	3.5	3.9	4.5	4.8	5.0	5.4
40–59 years	1,013	4.1	0.0	3.0	3.2	3.4	3.6	4.0	4.5	4.8	5.0	5.3
60–79 years	975	3.6	0.0	2.6	2.8	2.9	3.1	3.6	4.1	4.3	4.5	4.8
80 years and older	398	2.9	0.0	2.2	2.4	2.5	2.6	2.9	3.2	3.4	3.6	3.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.3	0.0	3.0	3.2	3.4	3.7	4.2	4.8	5.2	5.5	5.9
Age:												
8–11 years	359	1.6	0.0	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.1	2.4
12–15 years	566	2.8	0.0	1.6	1.8	1.9	2.2	2.8	3.4	3.7	3.8	4.2
16–19 years	551	3.8	0.0	2.8	3.0	3.1	3.3	3.7	4.2	4.5	4.8	5.3
20–39 years	450	4.4	0.1	3.1	3.3	3.4	3.7	4.3	4.9	5.3	5.6	6.1
40–59 years	435	4.3	0.0	3.0	3.3	3.5	3.8	4.3	4.9	5.2	5.4	5.8
60–79 years	324	3.9	0.0	2.7	2.9	3.1	3.4	3.9	4.4	4.7	4.9	5.2
80 years and older	36	3.3	0.1	†	2.4	2.5	2.9	3.1	3.6	3.7	4.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	2.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	2.2	0.0	1.5	1.6	1.7	1.8	2.1	2.5	2.7	2.8	3.1
Age:												
8–11 years	1,082	1.3	0.0	0.8	0.9	1.0	1.1	1.3	1.6	1.7	1.8	2.0
12–15 years	1,780	1.9	0.0	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.4	2.6
16–19 years	1,513	2.1	0.0	1.5	1.6	1.7	1.8	2.0	2.3	2.5	2.6	2.9
20–39 years	2,043	2.2	0.0	1.6	1.7	1.8	1.9	2.2	2.5	2.7	2.9	3.2
40–59 years	2,049	2.3	0.0	1.6	1.7	1.8	1.9	2.2	2.5	2.7	2.9	3.2
60–79 years	1,846	2.1	0.0	1.5	1.6	1.6	1.8	2.0	2.3	2.5	2.7	2.9
80 years and older	594	1.8	0.0	1.3	1.4	1.4	1.5	1.8	2.0	2.2	2.3	2.4

See footnotes at end of table.

Table 20. Left arm fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	2.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	2.1	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.8	3.0
Age:												
8–11 years	342	1.2	0.0	0.8	0.8	0.9	0.9	1.1	1.5	1.6	1.7	1.8
12–15 years	632	1.9	0.0	1.3	1.4	1.5	1.6	1.8	2.1	2.2	2.3	2.6
16–19 years	533	2.0	0.0	1.4	1.5	1.5	1.7	1.9	2.2	2.4	2.5	2.8
20–39 years	492	2.1	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.8	3.0
40–59 years	442	2.2	0.0	1.6	1.6	1.7	1.8	2.1	2.5	2.6	2.8	3.0
60–79 years	457	2.0	0.0	1.4	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.7
80 years and older	47	1.6	0.0	†	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.1
Non-Hispanic white:												
20 years and older, age adjusted	3,250	2.2	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	2.1	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.7	3.0
Age:												
8–11 years	281	1.3	0.0	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.8	2.0
12–15 years	448	1.9	0.0	1.3	1.5	1.5	1.6	1.8	2.1	2.2	2.3	2.5
16–19 years	409	2.0	0.0	1.5	1.6	1.7	1.8	2.0	2.3	2.5	2.6	2.7
20–39 years	907	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.7	3.0
40–59 years	964	2.2	0.0	1.6	1.7	1.8	1.9	2.2	2.5	2.7	2.9	3.1
60–79 years	922	2.0	0.0	1.5	1.6	1.6	1.7	2.0	2.3	2.4	2.6	2.8
80 years and older	457	1.8	0.0	1.3	1.4	1.4	1.5	1.8	2.0	2.1	2.3	2.4
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.6	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.6	0.0	1.8	1.9	2.0	2.2	2.5	3.0	3.2	3.4	3.7
Age:												
8–11 years	373	1.5	0.0	0.9	1.0	1.1	1.2	1.4	1.8	1.9	2.0	2.3
12–15 years	558	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.8	3.1
16–19 years	435	2.4	0.0	1.7	1.8	1.9	2.0	2.3	2.7	2.9	3.1	3.4
20–39 years	455	2.7	0.0	1.9	2.0	2.1	2.2	2.5	3.0	3.4	3.5	3.8
40–59 years	453	2.7	0.0	1.9	2.0	2.1	2.2	2.6	3.0	3.2	3.4	3.8
60–79 years	346	2.5	0.0	1.8	1.9	2.0	2.2	2.5	2.9	3.1	3.2	3.4
80 years and older	58	2.1	0.1	1.5	1.6	1.7	1.8	2.1	2.3	2.4	2.5	2.6

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Left arm fat-free mass includes bone mineral content.

Table 21. Left leg total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	13.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	13.9	0.1	9.5	10.3	10.9	11.7	13.4	15.5	16.8	17.7	19.5
Age:												
8–11 years	1,067	6.8	0.1	4.0	4.5	4.7	5.1	6.4	8.0	9.1	10.0	11.4
12–15 years	1,726	11.1	0.1	6.4	7.1	7.6	8.6	10.6	12.9	14.5	15.9	17.4
16–19 years	1,751	13.4	0.1	9.2	9.7	10.0	10.9	12.8	15.1	17.0	17.9	20.3
20–39 years	2,183	14.1	0.1	9.5	10.2	10.8	11.7	13.6	15.8	17.2	18.3	20.6
40–59 years	2,024	14.1	0.1	10.0	10.8	11.3	12.1	13.6	15.7	16.9	17.7	19.4
60–79 years	1,851	13.2	0.1	9.3	9.9	10.4	11.3	12.9	14.7	15.8	16.7	18.0
80 years and older	501	11.6	0.1	8.5	9.1	9.6	10.2	11.3	13.0	13.8	14.5	15.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	12.4	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	12.6	0.1	8.9	9.6	10.0	10.7	12.2	14.0	15.1	16.2	17.5
Age:												
8–11 years	348	7.1	0.1	4.0	4.4	4.6	5.1	6.5	8.5	9.8	10.7	12.1
12–15 years	599	11.0	0.1	6.3	7.1	7.7	8.6	10.6	12.9	14.3	15.3	16.9
16–19 years	611	12.9	0.2	8.7	9.3	9.7	10.4	12.0	14.7	16.1	17.2	19.7
20–39 years	570	12.7	0.2	8.9	9.6	10.1	10.7	12.3	14.2	15.4	16.5	17.8
40–59 years	427	12.6	0.1	9.2	9.7	10.2	10.9	12.2	13.7	14.8	15.7	17.3
60–79 years	443	11.9	0.1	8.7	9.1	9.6	10.2	11.5	13.3	14.3	14.8	16.1
80 years and older	48	10.5	0.3	†	8.5	9.3	9.7	10.3	10.9	12.0	12.4	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	14.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	14.0	0.1	9.7	10.6	11.1	12.0	13.6	15.6	16.8	17.7	19.3
Age:												
8–11 years	280	6.6	0.1	4.0	4.5	4.7	5.1	6.3	7.7	8.6	9.4	10.8
12–15 years	438	11.0	0.2	6.4	7.0	7.6	8.6	10.5	12.9	14.4	15.5	16.9
16–19 years	447	13.5	0.1	9.2	9.7	10.1	11.2	12.9	15.6	17.1	17.9	19.7
20–39 years	934	14.3	0.1	9.6	10.5	11.1	11.9	13.8	16.0	17.2	18.2	20.3
40–59 years	1,013	14.3	0.1	10.3	11.2	11.7	12.4	13.7	15.9	17.0	17.8	19.4
60–79 years	975	13.4	0.1	9.5	10.2	10.7	11.6	13.1	14.9	15.9	16.8	18.1
80 years and older	398	11.7	0.1	8.6	9.2	9.6	10.2	11.4	13.0	13.9	14.5	15.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	14.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	15.0	0.1	9.9	10.7	11.3	12.2	14.4	16.7	18.5	20.2	22.4
Age:												
8–11 years	359	7.4	0.1	4.3	4.8	5.0	5.5	6.6	8.6	10.1	11.4	12.8
12–15 years	566	12.0	0.1	6.7	7.7	8.3	9.4	11.2	13.8	15.7	17.2	19.8
16–19 years	551	14.3	0.2	9.4	10.0	10.7	11.3	13.1	16.0	18.1	20.3	23.6
20–39 years	450	15.5	0.2	10.2	11.0	11.7	12.5	14.7	17.7	19.4	21.2	23.9
40–59 years	435	14.8	0.2	10.0	10.7	11.2	12.4	14.4	16.5	17.9	19.4	21.9
60–79 years	324	13.9	0.2	9.3	10.0	10.6	11.7	13.6	15.6	16.9	18.0	19.7
80 years and older	36	12.5	0.4	†	8.9	10.0	10.5	12.1	13.3	14.6	15.9	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	12.6	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	12.6	0.1	8.2	8.9	9.4	10.1	11.9	14.3	16.1	17.3	19.5
Age:												
8–11 years	1,082	7.2	0.1	3.9	4.5	4.8	5.3	6.8	8.7	9.8	10.5	12.1
12–15 years	1,780	10.5	0.1	6.8	7.5	7.9	8.6	10.0	11.8	13.3	14.4	16.1
16–19 years	1,513	11.7	0.1	7.9	8.3	8.8	9.6	11.1	13.0	14.7	15.9	18.2
20–39 years	2,043	12.8	0.1	8.3	9.0	9.5	10.2	12.0	14.5	16.2	17.5	19.9
40–59 years	2,049	13.0	0.1	8.4	9.1	9.6	10.4	12.3	14.8	16.5	17.9	20.0
60–79 years	1,846	12.2	0.1	7.8	8.8	9.2	9.9	11.6	13.8	15.2	16.4	18.5
80 years and older	594	10.6	0.2	7.2	7.7	8.2	8.8	10.2	11.9	12.8	13.9	15.1

See footnotes at end of table.

Table 21. Left leg total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.				Kilograms								
Mexican American:												
20 years and older, age adjusted	1,438	11.5	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	11.6	0.1	7.8	8.4	8.9	9.6	11.2	13.3	14.5	15.6	16.9
Age:												
8–11 years	342	6.8	0.1	3.8	4.2	4.5	4.9	6.2	8.1	9.5	10.1	11.0
12–15 years	632	10.3	0.1	6.9	7.4	7.8	8.5	9.8	11.7	12.6	14.0	15.9
16–19 years	533	11.1	0.1	7.4	7.9	8.4	9.0	10.4	12.4	14.2	15.3	16.9
20–39 years	492	11.7	0.2	7.9	8.6	8.9	9.7	11.2	13.3	14.4	15.7	17.1
40–59 years	442	12.0	0.2	8.1	8.6	9.3	9.9	11.4	13.5	14.9	15.8	17.1
60–79 years	457	10.8	0.1	7.1	7.8	8.2	8.9	10.4	12.3	13.6	14.6	15.9
80 years and older	47	8.8	0.4	†	6.3	6.8	7.5	8.6	10.0	10.5	12.0	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	12.5	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	12.5	0.1	8.3	9.0	9.4	10.2	11.8	14.1	15.8	16.9	19.1
Age:												
8–11 years	281	7.1	0.2	3.8	4.5	4.8	5.4	6.6	8.5	9.6	10.3	11.7
12–15 years	448	10.3	0.2	6.7	7.2	7.8	8.5	9.8	11.5	12.9	13.8	15.2
16–19 years	409	11.7	0.2	8.0	8.4	9.0	9.7	11.1	12.9	14.4	15.5	18.0
20–39 years	907	12.6	0.1	8.4	9.2	9.6	10.2	11.9	14.2	15.9	16.8	19.3
40–59 years	964	12.9	0.1	8.6	9.2	9.6	10.5	12.3	14.7	16.4	17.7	19.6
60–79 years	922	12.1	0.1	8.0	9.0	9.4	10.0	11.6	13.6	14.8	16.2	17.7
80 years and older	457	10.7	0.2	7.3	7.9	8.3	8.9	10.2	11.9	12.7	13.9	15.0
Non-Hispanic black:												
20 years and older, age adjusted	1,312	14.8	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	14.9	0.1	9.3	10.2	10.9	12.0	14.3	17.1	19.0	20.4	23.0
Age:												
8–11 years	373	8.2	0.2	4.4	4.9	5.3	5.9	7.7	9.7	11.1	11.7	13.6
12–15 years	558	12.0	0.2	7.9	8.6	9.1	9.6	11.2	13.6	15.7	16.8	18.8
16–19 years	435	13.4	0.2	8.3	9.2	9.7	10.3	12.1	15.6	17.6	19.1	22.2
20–39 years	455	15.0	0.2	9.4	10.3	11.0	11.9	14.4	17.4	19.3	20.5	22.9
40–59 years	453	15.4	0.2	9.8	10.8	11.4	12.4	14.7	17.3	19.1	21.0	24.2
60–79 years	346	14.4	0.3	8.6	9.6	10.3	11.4	14.0	16.6	18.4	19.7	21.9
80 years and older	58	11.7	0.4	7.8	8.5	8.9	9.8	11.2	13.3	14.2	14.9	16.4

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 22. Left leg fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.9	0.0	1.8	2.2	2.4	2.8	3.6	4.6	5.4	5.9	6.9
Age:												
8–11 years	1,067	2.4	0.1	0.9	1.1	1.2	1.4	2.0	3.0	3.6	4.2	5.1
12–15 years	1,726	3.3	0.1	1.3	1.5	1.7	2.0	2.9	4.2	5.3	6.1	7.1
16–19 years	1,751	3.6	0.1	1.4	1.7	1.8	2.1	3.0	4.5	5.4	6.0	7.8
20–39 years	2,183	3.9	0.0	1.7	2.0	2.2	2.6	3.5	4.6	5.5	6.1	7.3
40–59 years	2,024	3.9	0.0	2.0	2.3	2.6	2.9	3.6	4.6	5.2	5.8	6.8
60–79 years	1,851	3.9	0.0	2.1	2.3	2.6	2.9	3.7	4.6	5.3	5.8	6.5
80 years and older	501	3.5	0.1	2.0	2.3	2.4	2.7	3.4	4.1	4.7	5.1	5.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.5	0.1	1.8	2.0	2.2	2.6	3.2	4.1	4.6	5.3	6.0
Age:												
8–11 years	348	2.7	0.1	1.0	1.1	1.3	1.5	2.3	3.4	4.1	4.9	5.7
12–15 years	599	3.4	0.1	1.4	1.6	1.7	2.0	3.1	4.5	5.4	5.9	6.8
16–19 years	611	3.7	0.1	1.5	1.7	1.9	2.2	3.1	4.5	5.5	6.3	7.9
20–39 years	570	3.5	0.1	1.8	2.0	2.2	2.5	3.2	4.2	4.8	5.5	6.0
40–59 years	427	3.4	0.1	1.7	2.1	2.3	2.6	3.2	4.0	4.4	4.7	5.7
60–79 years	443	3.4	0.1	1.8	2.1	2.3	2.6	3.2	4.0	4.6	4.9	5.6
80 years and older	48	3.1	0.2	1.8	2.2	2.4	2.5	2.9	3.4	3.6	4.1	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	4.0	0.0	2.0	2.3	2.5	2.9	3.7	4.7	5.4	5.9	6.8
Age:												
8–11 years	280	2.3	0.1	1.0	1.1	1.3	1.5	1.9	2.9	3.4	3.8	4.8
12–15 years	438	3.4	0.1	1.4	1.6	1.7	2.0	2.9	4.2	5.1	5.9	7.1
16–19 years	447	3.6	0.1	1.5	1.8	1.9	2.2	3.0	4.6	5.5	6.0	7.5
20–39 years	934	3.9	0.1	1.7	2.1	2.3	2.7	3.6	4.7	5.5	6.2	7.1
40–59 years	1,013	4.0	0.1	2.2	2.5	2.7	3.0	3.7	4.7	5.4	5.8	6.8
60–79 years	975	4.0	0.0	2.2	2.5	2.7	3.0	3.7	4.7	5.4	5.8	6.6
80 years and older	398	3.6	0.1	2.0	2.2	2.4	2.8	3.4	4.2	4.7	5.1	5.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.0	0.1	1.5	1.9	2.2	2.6	3.7	4.9	5.8	6.6	7.9
Age:												
8–11 years	359	2.3	0.1	0.8	0.9	1.0	1.2	1.9	2.9	3.9	4.7	5.4
12–15 years	566	3.3	0.1	1.2	1.4	1.5	1.8	2.5	4.2	5.5	6.6	8.1
16–19 years	551	3.5	0.1	1.3	1.4	1.5	1.8	2.5	4.2	5.7	7.1	9.3
20–39 years	450	4.1	0.1	1.5	1.7	2.0	2.4	3.6	5.1	6.2	7.2	8.4
40–59 years	435	3.9	0.1	1.7	2.0	2.2	2.7	3.7	4.7	5.4	6.4	7.4
60–79 years	324	4.0	0.1	1.7	2.2	2.5	2.9	3.7	4.8	5.7	6.2	7.2
80 years and older	36	3.8	0.2	†	2.3	2.5	2.7	3.5	4.5	5.1	5.6	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	5.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	5.6	0.0	2.8	3.2	3.6	4.0	5.1	6.6	7.7	8.5	????
Age:												
8–11 years	1,082	2.8	0.1	1.2	1.4	1.5	1.8	2.4	3.5	4.1	4.6	5.4
12–15 years	1,780	4.0	0.1	1.9	2.2	2.5	2.9	3.7	4.8	5.6	6.4	7.4
16–19 years	1,513	4.8	0.1	2.5	2.8	3.1	3.5	4.3	5.5	6.6	7.3	8.9
20–39 years	2,043	5.5	0.1	2.8	3.1	3.4	3.9	5.0	6.5	7.6	8.4	10.0
40–59 years	2,049	5.8	0.1	2.9	3.4	3.7	4.2	5.3	6.9	8.0	8.8	10.1
60–79 years	1,846	5.6	0.0	2.9	3.4	3.7	4.1	5.2	6.6	7.5	8.2	9.5
80 years and older	594	4.8	0.1	2.4	2.8	3.1	3.8	4.6	5.6	6.3	6.8	7.9

See footnotes at end of table.

Table 22. Left leg fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	5.1	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	5.1	0.1	2.8	3.2	3.4	3.9	4.8	6.1	6.9	7.6	8.4
Age:												
8–11 years	342	2.7	0.1	1.1	1.4	1.5	1.7	2.4	3.4	4.0	4.4	5.1
12–15 years	632	4.1	0.1	2.1	2.4	2.6	3.0	3.8	4.7	5.5	6.1	7.5
16–19 years	533	4.6	0.1	2.6	2.8	3.1	3.4	4.2	5.4	6.5	7.0	8.0
20–39 years	492	5.1	0.1	2.7	3.1	3.4	3.9	4.7	6.1	6.8	7.5	8.3
40–59 years	442	5.3	0.1	3.0	3.4	3.6	4.1	5.1	6.2	7.2	7.8	8.6
60–79 years	457	4.9	0.1	2.5	2.9	3.2	3.7	4.7	5.9	6.9	7.5	8.2
80 years and older	47	4.0	0.3	†	2.3	2.4	2.9	4.0	4.7	5.2	6.2	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	5.5	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	5.5	0.1	2.9	3.3	3.6	4.1	5.1	6.6	7.6	8.4	9.7
Age:												
8–11 years	281	2.7	0.1	1.2	1.4	1.5	1.9	2.4	3.4	4.0	4.5	5.3
12–15 years	448	3.9	0.1	1.9	2.2	2.3	2.8	3.6	4.7	5.4	6.3	7.1
16–19 years	409	4.8	0.1	2.5	2.9	3.1	3.5	4.4	5.4	6.5	7.3	8.8
20–39 years	907	5.4	0.1	2.8	3.1	3.4	3.8	4.9	6.3	7.5	8.2	9.8
40–59 years	964	5.8	0.1	2.9	3.4	3.7	4.2	5.3	6.9	7.9	8.6	10.1
60–79 years	922	5.6	0.1	3.0	3.5	3.8	4.2	5.3	6.5	7.3	8.0	9.3
80 years and older	457	4.8	0.1	2.4	2.9	3.3	3.8	4.6	5.6	6.4	6.8	7.9
Non-Hispanic black:												
20 years and older, age adjusted	1,312	6.6	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	6.6	0.1	3.1	3.7	4.1	4.8	6.2	8.0	9.2	10.0	11.5
Age:												
8–11 years	373	3.0	0.1	1.1	1.3	1.4	1.7	2.6	3.9	4.5	5.1	6.1
12–15 years	558	4.5	0.1	2.1	2.5	2.7	3.0	4.0	5.5	6.7	7.3	8.8
16–19 years	435	5.4	0.1	2.4	2.8	3.1	3.5	4.5	6.7	8.1	8.8	10.5
20–39 years	455	6.4	0.1	3.1	3.6	3.9	4.6	6.1	7.9	8.8	9.9	11.1
40–59 years	453	7.0	0.1	3.4	4.0	4.4	5.1	6.5	8.1	9.4	10.5	12.6
60–79 years	346	6.6	0.2	2.7	3.4	3.9	4.7	6.2	8.3	9.4	10.0	11.2
80 years and older	58	5.2	0.2	2.8	3.1	3.5	3.9	5.0	6.0	6.8	7.2	8.0

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 23. Left leg percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	27.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	27.4	0.1	17.7	19.8	21.3	23.3	27.2	31.2	33.5	35.1	37.8
Age:												
8–11 years	1,067	33.3	0.4	21.0	23.1	24.8	27.3	32.8	39.2	42.5	44.4	47.3
12–15 years	1,726	29.2	0.3	16.4	17.8	19.7	22.3	28.0	36.0	39.4	41.8	45.4
16–19 years	1,751	25.2	0.3	14.4	15.7	17.1	19.2	23.9	30.7	33.8	36.0	39.6
20–39 years	2,183	26.5	0.1	15.9	18.4	19.8	21.9	26.3	30.4	33.4	35.0	38.1
40–59 years	2,024	27.4	0.2	18.7	20.5	21.9	23.6	27.0	30.8	32.5	34.0	36.6
60–79 years	1,851	29.2	0.2	20.2	22.3	23.4	25.2	28.8	32.8	35.1	36.6	39.2
80 years and older	501	30.2	0.3	21.7	23.4	24.5	26.7	29.9	33.8	35.7	36.9	39.2
Mexican American:												
Age 20 years and older, age adjusted	1,488	27.3	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	27.1	0.2	18.4	20.6	21.6	23.3	27.0	30.2	32.6	34.1	36.5
Age:												
8–11 years	348	35.9	0.4	22.7	25.2	26.9	29.9	36.0	41.6	44.2	45.9	49.0
12–15 years	599	30.5	0.5	17.6	19.5	20.8	23.7	29.8	36.9	39.8	41.8	44.3
16–19 years	611	27.2	0.3	16.0	17.9	19.0	21.8	26.3	31.9	35.2	37.5	41.8
20–39 years	570	27.1	0.3	18.3	20.4	21.5	23.2	27.0	30.2	32.8	34.0	36.6
40–59 years	427	26.7	0.3	18.5	20.3	21.4	22.9	26.4	29.9	31.9	33.0	36.4
60–79 years	443	28.3	0.3	19.8	21.5	22.6	24.7	28.1	31.7	33.6	34.9	36.9
80 years and older	48	29.2	0.9	22.0	23.4	24.0	26.3	29.4	31.2	33.6	34.8	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	27.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	27.8	0.1	18.5	20.3	21.8	23.7	27.6	31.5	33.7	35.3	38.0
Age:												
8–11 years	280	33.7	0.6	22.7	24.7	25.9	27.8	32.9	38.9	42.4	43.9	46.6
12–15 years	438	29.7	0.5	16.9	18.6	20.4	22.9	28.3	36.3	39.5	42.1	45.6
16–19 years	447	25.7	0.4	14.9	16.3	17.7	20.2	24.2	31.1	33.9	35.8	39.3
20–39 years	934	26.7	0.2	16.3	18.5	20.1	22.0	26.4	30.7	33.4	35.0	38.2
40–59 years	1,013	27.8	0.2	19.4	21.1	22.4	24.1	27.4	31.1	32.7	34.3	36.9
60–79 years	975	29.5	0.2	20.8	22.7	23.7	25.5	29.1	33.1	35.4	37.0	39.4
80 years and older	398	30.2	0.3	21.5	23.3	24.6	26.6	30.0	33.8	35.8	37.0	39.2
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	26.2	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	25.8	0.2	14.1	16.6	18.3	21.0	25.8	30.3	33.1	34.7	37.2
Age:												
8–11 years	359	29.6	0.6	16.3	18.6	19.9	22.2	28.0	35.8	40.0	42.9	45.8
12–15 years	566	26.3	0.3	14.2	15.4	16.5	18.5	24.0	32.8	37.5	40.7	44.6
16–19 years	551	22.3	0.4	12.5	13.4	14.3	15.4	19.7	27.1	32.9	36.5	39.5
20–39 years	450	25.1	0.3	13.0	14.7	16.5	19.4	24.5	30.0	33.6	35.2	38.1
40–59 years	435	25.8	0.3	16.0	17.8	19.4	21.7	25.6	29.8	32.1	33.4	35.6
60–79 years	324	28.1	0.4	18.1	20.0	21.7	24.2	27.9	32.2	34.3	35.8	38.2
80 years and older	36	30.0	1.0	†	22.4	23.4	26.2	29.9	34.0	34.6	35.7	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	43.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	43.2	0.1	31.9	34.6	36.3	39.0	43.5	47.9	50.0	51.3	53.4
Age:												
8–11 years	1,082	37.6	0.4	26.3	28.3	29.8	32.6	37.9	42.8	44.8	46.2	48.2
12–15 years	1,780	37.6	0.3	26.3	28.5	30.5	33.3	37.7	42.0	44.3	45.9	48.8
16–19 years	1,513	39.9	0.3	29.5	31.6	33.5	35.7	40.1	44.0	46.3	47.9	50.1
20–39 years	2,043	41.8	0.2	30.9	33.2	34.9	37.4	42.1	46.4	48.6	49.9	51.9
40–59 years	2,049	43.6	0.2	32.1	34.9	37.1	39.5	44.0	48.1	50.2	51.5	53.3
60–79 years	1,846	44.9	0.1	34.0	36.8	38.5	40.8	45.2	49.4	51.5	52.7	54.5
80 years and older	594	44.3	0.3	31.9	34.7	37.4	39.9	45.1	48.9	50.9	52.3	54.3

See footnotes at end of table.

Table 23. Left leg percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	43.7	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	43.4	0.3	32.9	35.5	37.1	39.8	43.7	47.4	49.3	50.8	52.8
Age:												
8–11 years	342	38.9	0.4	27.6	30.0	32.1	34.2	38.7	43.8	46.3	47.6	49.9
12–15 years	632	39.3	0.2	29.0	31.2	33.3	35.5	39.3	43.2	45.1	46.3	48.8
16–19 years	533	41.2	0.3	32.3	34.1	35.4	37.5	41.0	45.0	47.2	48.5	50.1
20–39 years	492	42.7	0.4	32.0	34.9	36.4	39.0	42.9	46.7	48.5	49.6	51.5
40–59 years	442	44.2	0.3	33.6	36.5	38.5	40.8	44.5	47.9	49.8	51.1	53.3
60–79 years	457	44.8	0.5	33.7	35.7	37.9	41.0	44.8	49.6	51.8	52.9	54.7
80 years and older	47	44.4	1.3	29.7	33.5	35.9	40.4	44.8	49.1	52.1	53.1	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	43.2	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	43.4	0.2	32.1	34.7	36.4	39.1	43.7	48.1	50.2	51.6	53.5
Age:												
8–11 years	281	37.8	0.5	27.1	29.1	30.5	33.0	38.0	42.7	44.7	46.1	48.1
12–15 years	448	37.5	0.4	26.2	28.3	29.8	33.3	37.4	42.0	44.4	45.9	49.0
16–19 years	409	40.0	0.4	29.6	31.6	33.5	35.8	40.3	43.9	46.3	48.1	50.5
20–39 years	907	41.7	0.3	30.7	33.0	34.7	37.1	41.6	46.4	48.6	50.0	52.2
40–59 years	964	43.6	0.3	31.9	34.9	36.9	39.4	44.0	48.4	50.3	51.7	53.4
60–79 years	922	45.3	0.2	35.1	37.4	39.1	41.3	45.5	49.5	51.6	52.8	54.6
80 years and older	457	44.7	0.3	32.2	35.2	37.9	40.4	45.4	49.3	51.0	52.4	54.4
Non-Hispanic black:												
20 years and older, age adjusted	1,312	43.4	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	43.3	0.2	31.6	34.2	36.4	38.9	43.9	48.1	50.2	51.5	53.3
Age:												
8–11 years	373	35.7	0.5	22.9	25.6	27.1	29.9	35.9	42.0	44.1	45.5	47.5
12–15 years	558	36.3	0.3	24.7	27.6	28.9	31.6	36.2	41.3	43.6	45.3	48.2
16–19 years	435	38.7	0.4	26.9	29.6	31.2	34.1	38.5	43.4	45.9	47.6	49.7
20–39 years	455	41.9	0.4	30.9	33.2	34.8	37.7	42.2	46.5	48.7	49.9	51.4
40–59 years	453	44.4	0.3	32.6	35.8	38.1	40.1	44.8	48.8	51.1	52.3	53.8
60–79 years	346	44.4	0.5	30.2	34.4	36.5	39.3	45.4	49.6	51.5	53.1	54.5
80 years and older	58	43.7	0.9	32.5	35.1	36.7	39.4	44.0	47.7	49.8	50.6	53.0

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 24. Left leg lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	9.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	9.4	0.0	6.7	7.2	7.6	8.2	9.2	10.4	11.1	11.7	12.6
Age:												
8–11 years	1,067	4.2	0.0	2.7	2.9	3.1	3.4	4.0	4.8	5.3	5.6	6.4
12–15 years	1,726	7.3	0.1	4.3	4.7	5.1	5.8	7.2	8.7	9.4	9.9	10.6
16–19 years	1,751	9.3	0.1	6.9	7.2	7.5	8.0	9.0	10.4	11.2	11.7	12.4
20–39 years	2,183	9.7	0.1	6.9	7.4	7.7	8.3	9.4	10.8	11.5	12.1	13.3
40–59 years	2,024	9.6	0.0	7.1	7.6	7.9	8.4	9.4	10.5	11.1	11.7	12.6
60–79 years	1,851	8.7	0.1	6.3	6.8	7.1	7.6	8.6	9.7	10.4	10.8	11.4
80 years and older	501	7.6	0.1	5.6	6.0	6.3	6.8	7.5	8.4	8.8	9.2	9.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	8.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	8.6	0.1	6.3	6.8	7.1	7.5	8.5	9.5	10.1	10.5	11.2
Age:												
8–11 years	348	4.2	0.1	2.6	2.8	3.0	3.3	3.9	4.8	5.4	5.7	6.2
12–15 years	599	7.1	0.1	4.3	4.8	5.1	5.9	7.1	8.1	8.9	9.4	10.1
16–19 years	611	8.7	0.1	6.3	6.8	7.0	7.5	8.5	9.6	10.3	10.8	11.7
20–39 years	570	8.7	0.1	6.4	6.9	7.1	7.6	8.5	9.6	10.2	10.5	11.3
40–59 years	427	8.6	0.1	6.5	7.0	7.2	7.6	8.5	9.5	10.0	10.5	11.2
60–79 years	443	8.0	0.1	6.0	6.3	6.6	7.1	7.8	8.9	9.3	9.7	10.3
80 years and older	48	6.9	0.1	†	5.8	5.9	6.3	7.0	7.3	7.5	7.9	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	9.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	9.5	0.0	6.8	7.4	7.7	8.3	9.3	10.5	11.1	11.6	12.5
Age:												
8–11 years	280	4.1	0.1	2.7	2.9	3.1	3.4	4.0	4.6	5.0	5.3	5.8
12–15 years	438	7.2	0.1	4.1	4.7	5.1	5.7	7.1	8.6	9.3	9.7	10.4
16–19 years	447	9.3	0.1	7.0	7.3	7.6	8.0	9.1	10.5	11.1	11.5	12.2
20–39 years	934	9.8	0.1	7.1	7.5	7.9	8.5	9.5	10.8	11.4	11.9	13.0
40–59 years	1,013	9.7	0.1	7.3	7.8	8.1	8.6	9.5	10.5	11.1	11.6	12.5
60–79 years	975	8.8	0.1	6.4	6.8	7.2	7.8	8.7	9.8	10.4	10.8	11.4
80 years and older	398	7.6	0.1	5.6	6.1	6.4	6.8	7.5	8.4	8.8	9.1	9.6
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	10.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	10.3	0.1	7.2	7.8	8.2	8.8	10.0	11.6	12.5	13.1	14.0
Age:												
8–11 years	359	4.8	0.1	3.1	3.4	3.6	3.8	4.5	5.3	6.1	6.6	7.2
12–15 years	566	8.2	0.1	4.9	5.5	5.9	6.7	8.1	9.5	10.4	11.0	11.9
16–19 years	551	10.2	0.1	7.5	7.9	8.2	8.8	9.9	11.3	12.1	12.7	14.3
20–39 years	450	10.8	0.1	7.7	8.2	8.7	9.2	10.4	12.1	13.0	13.6	14.9
40–59 years	435	10.2	0.1	7.2	7.9	8.3	8.8	10.0	11.4	12.3	12.8	13.8
60–79 years	324	9.3	0.1	6.7	7.1	7.4	8.0	9.2	10.5	11.0	11.5	12.3
80 years and older	36	8.1	0.2	†	6.0	6.4	7.3	7.8	8.8	9.3	10.0	---
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	6.7	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	6.6	0.0	4.6	4.9	5.2	5.6	6.4	7.4	8.2	8.6	9.5
Age:												
8–11 years	1,082	4.2	0.1	2.4	2.7	2.9	3.2	4.0	4.9	5.5	5.9	6.5
12–15 years	1,780	6.1	0.0	4.3	4.6	4.8	5.2	5.9	6.8	7.4	7.9	8.5
16–19 years	1,513	6.5	0.0	4.6	4.9	5.1	5.5	6.3	7.3	7.9	8.4	9.3
20–39 years	2,043	6.9	0.0	4.8	5.2	5.4	5.8	6.6	7.7	8.3	8.9	9.8
40–59 years	2,049	6.8	0.1	4.7	5.0	5.3	5.7	6.5	7.6	8.3	8.8	9.7
60–79 years	1,846	6.2	0.0	4.4	4.7	4.9	5.3	6.0	6.9	7.5	8.0	8.8
80 years and older	594	5.5	0.1	4.0	4.2	4.4	4.7	5.4	6.0	6.6	7.0	7.7

See footnotes at end of table.

Table 24. Left leg lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	6.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	6.1	0.0	4.3	4.6	4.8	5.2	6.0	6.9	7.4	7.8	8.5
Age:												
8–11 years	342	3.8	0.1	2.3	2.5	2.6	2.9	3.6	4.5	5.1	5.4	5.8
12–15 years	632	5.8	0.1	4.0	4.4	4.5	4.9	5.7	6.5	6.9	7.5	8.2
16–19 years	533	6.0	0.1	4.2	4.5	4.7	5.0	5.9	6.7	7.4	7.9	8.7
20–39 years	492	6.2	0.1	4.4	4.7	4.9	5.3	6.0	7.0	7.5	7.9	8.7
40–59 years	442	6.2	0.1	4.4	4.7	4.9	5.2	6.1	7.0	7.4	7.9	8.5
60–79 years	457	5.5	0.1	4.0	4.2	4.5	4.8	5.4	6.1	6.6	7.0	7.6
80 years and older	47	4.5	0.1	3.4	3.7	3.8	4.0	4.4	5.0	5.3	5.6	5.8
Non-Hispanic white:												
20 years and older, age adjusted	3,250	6.6	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	6.5	0.0	4.6	5.0	5.2	5.6	6.3	7.3	8.0	8.4	9.2
Age:												
8–11 years	281	4.1	0.1	2.4	2.7	2.9	3.2	4.0	4.8	5.3	5.6	6.3
12–15 years	448	5.9	0.1	4.3	4.6	4.8	5.1	5.8	6.6	7.1	7.5	8.1
16–19 years	409	6.5	0.1	4.7	5.0	5.2	5.6	6.3	7.2	7.8	8.1	9.0
20–39 years	907	6.8	0.0	5.0	5.2	5.5	5.8	6.6	7.5	8.2	8.5	9.4
40–59 years	964	6.7	0.1	4.8	5.1	5.3	5.7	6.5	7.6	8.2	8.7	9.5
60–79 years	922	6.1	0.0	4.4	4.8	4.9	5.3	6.0	6.8	7.3	7.8	8.6
80 years and older	457	5.5	0.1	4.0	4.3	4.4	4.7	5.4	6.0	6.6	6.9	7.6
Non-Hispanic black:												
20 years and older, age adjusted	1,312	7.8	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	7.9	0.0	5.3	5.8	6.1	6.6	7.6	8.9	9.7	10.3	11.3
Age:												
8–11 years	373	4.8	0.1	2.8	3.3	3.5	3.7	4.6	5.7	6.3	6.8	7.4
12–15 years	558	7.1	0.1	5.1	5.5	5.7	6.1	6.8	7.8	8.7	9.0	9.9
16–19 years	435	7.6	0.1	5.1	5.6	5.8	6.3	7.1	8.6	9.3	9.8	11.2
20–39 years	455	8.1	0.1	5.5	6.0	6.3	6.8	7.7	9.3	10.1	10.6	11.5
40–59 years	453	7.9	0.1	5.5	5.9	6.2	6.6	7.7	8.9	9.7	10.2	11.1
60–79 years	346	7.4	0.1	5.1	5.5	5.7	6.2	7.1	8.3	9.1	9.5	10.4
80 years and older	58	6.2	0.2	4.4	4.8	5.0	5.2	5.9	6.8	7.4	8.1	8.4

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Left leg lean soft tissue does not include bone mineral content.

Table 25. Left leg fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	9.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	9.9	0.0	7.2	7.7	8.1	8.7	9.7	11.0	11.7	12.3	13.3
Age:												
8–11 years	1,067	4.4	0.0	2.9	3.1	3.3	3.6	4.2	5.0	5.6	5.9	6.7
12–15 years	1,726	7.7	0.1	4.5	5.0	5.4	6.1	7.6	9.1	9.9	10.4	11.2
16–19 years	1,751	9.8	0.1	7.3	7.7	8.0	8.4	9.5	11.0	11.8	12.3	13.0
20–39 years	2,183	10.2	0.1	7.3	7.8	8.2	8.8	9.9	11.3	12.1	12.7	13.9
40–59 years	2,024	10.1	0.0	7.5	8.0	8.4	8.9	10.0	11.1	11.8	12.3	13.2
60–79 years	1,851	9.3	0.1	6.7	7.2	7.6	8.1	9.1	10.3	11.0	11.4	12.0
80 years and older	501	8.0	0.1	6.0	6.4	6.7	7.2	8.0	8.9	9.4	9.8	10.2
Mexican American:												
Age 20 years and older, age adjusted	1,488	8.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	9.1	0.1	6.7	7.2	7.5	8.0	8.9	10.0	10.6	11.1	11.8
Age:												
8–11 years	348	4.4	0.1	2.7	3.0	3.2	3.5	4.1	5.1	5.7	6.0	6.5
12–15 years	599	7.5	0.1	4.5	5.1	5.4	6.2	7.5	8.6	9.4	9.9	10.6
16–19 years	611	9.1	0.1	6.7	7.2	7.4	7.9	8.9	10.2	10.9	11.4	12.3
20–39 years	570	9.2	0.1	6.8	7.3	7.6	8.1	9.0	10.1	10.7	11.1	11.9
40–59 years	427	9.1	0.1	6.9	7.4	7.7	8.0	9.0	10.0	10.6	11.1	11.8
60–79 years	443	8.4	0.1	6.4	6.7	7.0	7.5	8.3	9.4	9.8	10.3	10.9
80 years and older	48	7.3	0.2	†	6.2	6.3	6.7	7.4	7.8	8.0	8.4	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	10.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	10.0	0.0	7.3	7.8	8.2	8.8	9.8	11.1	11.7	12.2	13.1
Age:												
8–11 years	280	4.3	0.1	2.9	3.1	3.2	3.5	4.2	4.8	5.3	5.6	6.1
12–15 years	438	7.6	0.1	4.3	5.0	5.4	6.0	7.5	9.1	9.8	10.2	10.9
16–19 years	447	9.9	0.1	7.4	7.7	8.0	8.5	9.6	11.1	11.7	12.2	12.8
20–39 years	934	10.3	0.1	7.6	8.0	8.4	9.0	10.1	11.4	12.1	12.5	13.7
40–59 years	1,013	10.2	0.1	7.7	8.3	8.6	9.1	10.1	11.1	11.8	12.2	13.2
60–79 years	975	9.3	0.1	6.8	7.3	7.7	8.2	9.2	10.4	11.0	11.4	12.0
80 years and older	398	8.1	0.1	6.1	6.5	6.8	7.2	8.0	8.9	9.3	9.7	10.2
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	10.7	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	10.9	0.1	7.6	8.3	8.7	9.4	10.6	12.2	13.1	13.8	14.7
Age:												
8–11 years	359	5.0	0.1	3.2	3.5	3.8	4.0	4.7	5.6	6.4	6.9	7.6
12–15 years	566	8.6	0.1	5.2	5.7	6.2	7.1	8.5	10.0	10.9	11.6	12.5
16–19 years	551	10.8	0.1	7.9	8.3	8.7	9.3	10.5	11.9	12.8	13.4	15.0
20–39 years	450	11.4	0.1	8.2	8.7	9.2	9.7	11.0	12.7	13.7	14.3	15.7
40–59 years	435	10.8	0.1	7.7	8.4	8.8	9.4	10.5	12.0	13.0	13.5	14.4
60–79 years	324	9.8	0.1	7.1	7.5	7.8	8.5	9.8	11.1	11.6	12.1	12.9
80 years and older	36	8.7	0.3	†	6.4	6.8	7.7	8.3	9.5	10.0	10.6	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	7.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	7.0	0.0	4.9	5.2	5.5	5.9	6.8	7.8	8.6	9.1	10.0
Age:												
8–11 years	1,082	4.4	0.1	2.6	2.8	3.0	3.4	4.2	5.2	5.8	6.2	6.8
12–15 years	1,780	6.4	0.0	4.6	4.9	5.1	5.5	6.3	7.2	7.8	8.2	8.9
16–19 years	1,513	6.9	0.0	4.9	5.2	5.4	5.8	6.7	7.7	8.3	8.8	9.7
20–39 years	2,043	7.3	0.0	5.2	5.5	5.8	6.1	7.0	8.1	8.8	9.4	10.3
40–59 years	2,049	7.2	0.1	5.0	5.4	5.6	6.1	6.9	8.0	8.8	9.3	10.1
60–79 years	1,846	6.5	0.0	4.7	5.0	5.2	5.6	6.3	7.3	7.9	8.4	9.2
80 years and older	594	5.8	0.1	4.2	4.5	4.7	5.0	5.6	6.3	6.9	7.3	8.0

See footnotes at end of table.

Table 25. Left leg fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	6.3	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	6.5	0.0	4.6	4.9	5.1	5.5	6.3	7.3	7.8	8.2	8.9
Age:												
8–11 years	342	4.0	0.1	2.4	2.6	2.8	3.1	3.8	4.8	5.4	5.7	6.2
12–15 years	632	6.2	0.1	4.3	4.7	4.8	5.2	6.0	6.9	7.3	7.9	8.7
16–19 years	533	6.4	0.1	4.5	4.8	5.0	5.4	6.2	7.1	7.8	8.3	9.2
20–39 years	492	6.6	0.1	4.7	5.0	5.3	5.7	6.4	7.3	7.9	8.3	9.1
40–59 years	442	6.6	0.1	4.7	5.0	5.2	5.6	6.4	7.3	7.8	8.2	8.8
60–79 years	457	5.8	0.1	4.2	4.4	4.7	5.1	5.7	6.4	7.0	7.3	8.0
80 years and older	47	4.8	0.1	3.6	3.8	4.0	4.2	4.6	5.2	5.6	5.8	6.1
Non-Hispanic white:												
20 years and older, age adjusted	3,250	7.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	6.9	0.0	4.9	5.3	5.5	5.9	6.7	7.7	8.4	8.9	9.6
Age:												
8–11 years	281	4.3	0.1	2.5	2.8	3.0	3.4	4.2	5.1	5.6	5.9	6.7
12–15 years	448	6.3	0.1	4.5	4.9	5.0	5.4	6.2	7.0	7.5	7.9	8.5
16–19 years	409	6.9	0.1	5.0	5.3	5.6	5.9	6.7	7.6	8.3	8.6	9.5
20–39 years	907	7.2	0.0	5.3	5.6	5.8	6.1	7.0	8.0	8.6	9.0	9.8
40–59 years	964	7.1	0.1	5.1	5.4	5.7	6.1	6.9	8.0	8.7	9.1	9.9
60–79 years	922	6.5	0.0	4.7	5.1	5.2	5.6	6.3	7.2	7.7	8.2	9.0
80 years and older	457	5.8	0.1	4.2	4.5	4.7	5.0	5.6	6.3	6.9	7.2	7.9
Non-Hispanic black:												
20 years and older, age adjusted	1,312	8.2	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	8.3	0.0	5.7	6.1	6.5	6.9	8.0	9.3	10.2	10.8	11.7
Age:												
8–11 years	373	5.1	0.1	3.0	3.5	3.7	3.9	4.9	6.0	6.7	7.1	7.7
12–15 years	558	7.5	0.1	5.4	5.8	6.1	6.4	7.1	8.2	9.1	9.5	10.3
16–19 years	435	8.0	0.1	5.5	5.9	6.2	6.7	7.6	9.1	9.8	10.2	11.7
20–39 years	455	8.5	0.1	5.9	6.3	6.7	7.2	8.2	9.7	10.5	11.1	12.0
40–59 years	453	8.3	0.1	5.9	6.3	6.6	7.0	8.1	9.3	10.2	10.7	11.6
60–79 years	346	7.8	0.1	5.4	5.8	6.1	6.6	7.5	8.7	9.5	9.9	10.9
80 years and older	58	6.5	0.2	4.6	5.0	5.3	5.5	6.3	7.2	7.8	8.4	8.7

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Left leg fat-free mass includes bone mineral content.

Table 26. Right arm total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	5.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	5.6	0.0	3.8	4.1	4.4	4.7	5.5	6.3	6.8	7.2	7.8
Age:												
8–11 years	1,067	2.2	0.0	1.3	1.4	1.5	1.7	2.0	2.5	2.9	3.2	3.6
12–15 years	1,726	3.7	0.0	2.0	2.2	2.4	2.8	3.5	4.3	4.8	5.3	5.9
16–19 years	1,751	4.9	0.0	3.3	3.5	3.7	4.0	4.7	5.5	6.1	6.5	7.1
20–39 years	2,183	5.6	0.0	3.8	4.1	4.4	4.7	5.3	6.2	6.8	7.3	8.0
40–59 years	2,024	5.8	0.0	4.1	4.4	4.6	5.0	5.7	6.4	6.9	7.2	7.9
60–79 years	1,851	5.4	0.0	3.7	4.0	4.3	4.6	5.3	6.1	6.5	6.8	7.4
80 years and older	501	4.5	0.0	3.2	3.5	3.6	3.9	4.5	5.0	5.4	5.7	6.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	5.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	5.2	0.1	3.7	4.0	4.1	4.5	5.1	5.9	6.3	6.7	7.3
Age:												
8–11 years	348	2.3	0.0	1.3	1.4	1.5	1.6	2.1	2.8	3.1	3.4	4.1
12–15 years	599	3.7	0.1	2.0	2.3	2.6	2.9	3.5	4.3	4.8	5.1	5.7
16–19 years	611	4.7	0.1	3.3	3.5	3.6	3.9	4.5	5.4	5.9	6.3	7.0
20–39 years	570	5.2	0.1	3.7	3.9	4.1	4.4	5.0	5.8	6.3	6.7	7.3
40–59 years	427	5.4	0.0	3.8	4.1	4.4	4.7	5.3	5.9	6.4	6.7	7.3
60–79 years	443	5.1	0.1	3.7	3.9	4.1	4.4	5.0	5.7	6.1	6.3	7.1
80 years and older	48	4.2	0.1	3.1	3.3	3.6	3.8	4.1	4.5	4.7	4.8	5.3
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	5.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	5.6	0.0	3.9	4.3	4.5	4.8	5.5	6.3	6.8	7.1	7.8
Age:												
8–11 years	280	2.1	0.0	1.3	1.4	1.5	1.6	2.0	2.5	2.8	3.1	3.5
12–15 years	438	3.7	0.1	2.0	2.2	2.4	2.8	3.5	4.3	4.8	5.3	5.9
16–19 years	447	4.9	0.1	3.4	3.6	3.8	4.1	4.7	5.5	6.2	6.5	7.0
20–39 years	934	5.6	0.1	3.8	4.2	4.4	4.7	5.4	6.3	6.8	7.2	8.0
40–59 years	1,013	5.8	0.0	4.1	4.5	4.7	5.0	5.8	6.4	6.9	7.2	7.8
60–79 years	975	5.5	0.0	3.9	4.2	4.4	4.7	5.4	6.1	6.5	6.9	7.4
80 years and older	398	4.5	0.0	3.3	3.5	3.7	3.9	4.5	5.0	5.4	5.7	6.1
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	5.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	5.9	0.1	3.9	4.2	4.5	4.9	5.7	6.7	7.3	7.7	8.7
Age:												
8–11 years	359	2.3	0.0	1.4	1.5	1.6	1.8	2.0	2.6	3.0	3.5	4.2
12–15 years	566	3.9	0.1	2.1	2.4	2.5	3.0	3.7	4.6	5.1	5.5	6.4
16–19 years	551	5.1	0.1	3.5	3.7	3.8	4.2	4.8	5.6	6.3	7.0	7.9
20–39 years	450	5.9	0.1	3.9	4.3	4.4	4.8	5.6	6.8	7.4	8.0	8.8
40–59 years	435	6.0	0.1	4.0	4.3	4.5	5.0	5.9	6.7	7.3	7.7	8.6
60–79 years	324	5.7	0.1	3.6	4.0	4.2	4.8	5.7	6.5	7.0	7.4	7.9
80 years and older	36	4.8	0.2	†	3.3	3.8	4.3	4.7	5.2	6.0	6.3	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	4.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	4.2	0.0	2.6	2.9	3.1	3.3	4.0	4.9	5.4	5.9	6.7
Age:												
8–11 years	1,082	2.2	0.0	1.2	1.4	1.5	1.6	2.1	2.7	3.0	3.3	3.7
12–15 years	1,780	3.2	0.0	2.1	2.3	2.4	2.6	3.0	3.6	4.1	4.4	5.1
16–19 years	1,513	3.6	0.0	2.4	2.6	2.7	2.9	3.3	4.0	4.7	5.1	5.7
20–39 years	2,043	4.1	0.0	2.6	2.8	3.0	3.2	3.8	4.7	5.3	5.8	6.7
40–59 years	2,049	4.4	0.0	2.7	3.0	3.2	3.4	4.1	5.1	5.7	6.2	7.2
60–79 years	1,846	4.2	0.0	2.8	3.0	3.2	3.5	4.0	4.8	5.4	5.8	6.4
80 years and older	594	3.5	0.1	2.3	2.5	2.6	2.9	3.4	4.0	4.5	4.7	5.2

See footnotes at end of table.

Table 26. Right arm total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	4.2	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	4.2	0.1	2.7	2.9	3.1	3.4	4.0	4.8	5.3	5.7	6.4
Age:												
8–11 years	342	2.1	0.0	1.2	1.3	1.4	1.5	1.9	2.5	3.0	3.2	3.5
12–15 years	632	3.2	0.0	2.1	2.3	2.4	2.6	3.0	3.6	4.1	4.5	5.2
16–19 years	533	3.5	0.0	2.3	2.5	2.6	2.8	3.2	4.0	4.5	4.9	5.7
20–39 years	492	4.1	0.1	2.6	2.9	3.0	3.3	3.9	4.6	5.2	5.6	6.3
40–59 years	442	4.4	0.1	2.8	3.2	3.3	3.6	4.3	5.1	5.5	5.9	6.6
60–79 years	457	4.2	0.1	2.7	3.0	3.2	3.5	4.1	4.8	5.3	5.6	6.2
80 years and older	47	3.3	0.1	†	2.2	2.6	2.9	3.1	3.6	4.0	4.3	4.7
Non-Hispanic white:												
20 years and older, age adjusted	3,250	4.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	4.2	0.0	2.6	2.9	3.0	3.3	3.9	4.8	5.3	5.8	6.5
Age:												
8–11 years	281	2.2	0.0	1.2	1.4	1.5	1.6	2.1	2.6	2.9	3.2	3.5
12–15 years	448	3.1	0.0	2.0	2.2	2.3	2.6	2.9	3.5	4.0	4.3	4.8
16–19 years	409	3.6	0.1	2.4	2.6	2.7	2.9	3.3	3.9	4.6	5.0	5.6
20–39 years	907	4.0	0.0	2.6	2.8	3.0	3.2	3.7	4.5	5.1	5.6	6.4
40–59 years	964	4.4	0.1	2.7	3.0	3.1	3.4	4.1	5.0	5.6	6.0	6.9
60–79 years	922	4.2	0.0	2.8	3.0	3.2	3.4	4.0	4.7	5.2	5.6	6.2
80 years and older	457	3.5	0.1	2.3	2.5	2.6	2.9	3.4	4.0	4.4	4.7	5.2
Non-Hispanic black:												
20 years and older, age adjusted	1,312	4.9	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	5.0	0.0	3.0	3.3	3.6	3.9	4.7	5.8	6.5	7.1	8.0
Age:												
8–11 years	373	2.4	0.1	1.3	1.5	1.5	1.7	2.3	2.9	3.3	3.6	4.1
12–15 years	558	3.6	0.1	2.3	2.5	2.6	2.8	3.2	4.1	4.6	5.2	5.9
16–19 years	435	4.1	0.1	2.5	2.7	2.8	3.0	3.6	4.7	5.5	6.1	7.1
20–39 years	455	4.8	0.1	2.9	3.2	3.4	3.7	4.4	5.7	6.5	7.0	8.0
40–59 years	453	5.2	0.1	3.2	3.5	3.7	4.0	4.8	5.9	6.7	7.4	8.3
60–79 years	346	5.1	0.1	3.0	3.5	3.6	4.0	4.9	5.9	6.5	7.0	7.7
80 years and older	58	4.0	0.1	2.6	2.9	3.1	3.4	3.9	4.5	4.7	5.0	5.6

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 27. Right arm fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	1.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	1.5	0.0	0.6	0.8	0.9	1.0	1.3	1.8	2.1	2.3	2.6
Age:												
8–11 years	1,067	0.7	0.0	0.2	0.3	0.3	0.3	0.5	0.9	1.1	1.4	1.7
12–15 years	1,726	0.9	0.0	0.4	0.4	0.4	0.5	0.7	1.2	1.5	1.8	2.3
16–19 years	1,751	1.1	0.0	0.5	0.5	0.5	0.6	0.8	1.3	1.7	2.0	2.5
20–39 years	2,183	1.3	0.0	0.6	0.7	0.7	0.9	1.2	1.6	1.9	2.2	2.6
40–59 years	2,024	1.5	0.0	0.8	0.9	1.0	1.1	1.4	1.8	2.1	2.3	2.7
60–79 years	1,851	1.6	0.0	0.8	0.9	1.0	1.2	1.5	1.9	2.2	2.4	2.8
80 years and older	501	1.4	0.0	0.7	0.8	0.9	1.1	1.3	1.7	1.8	2.0	2.2
Mexican American:												
Age 20 years and older, age adjusted	1,488	1.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	1.3	0.0	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.0	2.4
Age:												
8–11 years	348	0.8	0.0	0.2	0.3	0.3	0.4	0.6	1.1	1.3	1.6	2.0
12–15 years	599	1.0	0.0	0.3	0.4	0.4	0.5	0.8	1.3	1.6	1.8	2.1
16–19 years	611	1.1	0.0	0.5	0.5	0.6	0.6	0.9	1.4	1.8	2.1	2.6
20–39 years	570	1.3	0.0	0.6	0.7	0.8	0.9	1.2	1.5	1.8	2.0	2.4
40–59 years	427	1.4	0.0	0.7	0.9	0.9	1.1	1.3	1.6	1.8	2.0	2.4
60–79 years	443	1.5	0.0	0.8	0.9	1.0	1.1	1.4	1.7	2.0	2.2	2.5
80 years and older	48	1.3	0.1	0.7	0.8	0.8	0.9	1.2	1.5	1.6	1.7	1.8
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	1.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	1.5	0.0	0.7	0.8	0.9	1.1	1.4	1.8	2.1	2.3	2.7
Age:												
8–11 years	280	0.7	0.0	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.3	1.6
12–15 years	438	0.9	0.0	0.4	0.4	0.4	0.5	0.7	1.2	1.5	1.8	2.3
16–19 years	447	1.1	0.0	0.5	0.5	0.5	0.6	0.9	1.4	1.7	1.9	2.5
20–39 years	934	1.4	0.0	0.6	0.7	0.7	0.9	1.2	1.6	2.0	2.2	2.6
40–59 years	1,013	1.6	0.0	0.8	0.9	1.0	1.1	1.5	1.8	2.1	2.3	2.7
60–79 years	975	1.7	0.0	0.9	1.0	1.1	1.2	1.5	2.0	2.3	2.4	2.8
80 years and older	398	1.4	0.0	0.7	0.8	0.9	1.1	1.3	1.7	1.9	2.0	2.2
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	1.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	1.4	0.0	0.5	0.6	0.7	0.9	1.2	1.7	2.1	2.3	2.8
Age:												
8–11 years	359	0.6	0.0	0.2	0.2	0.3	0.3	0.4	0.7	1.1	1.3	1.7
12–15 years	566	0.9	0.0	0.3	0.4	0.4	0.5	0.6	1.1	1.6	1.9	2.3
16–19 years	551	1.0	0.0	0.4	0.5	0.5	0.5	0.7	1.1	1.7	2.1	2.7
20–39 years	450	1.3	0.0	0.5	0.6	0.6	0.8	1.1	1.6	2.0	2.3	2.7
40–59 years	435	1.4	0.0	0.6	0.7	0.8	1.0	1.3	1.7	2.0	2.3	2.9
60–79 years	324	1.6	0.0	0.6	0.8	0.9	1.1	1.4	1.9	2.3	2.5	2.8
80 years and older	36	1.4	0.1	†	0.8	0.8	1.0	1.3	1.6	1.9	2.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	1.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	1.9	0.0	0.8	0.9	1.1	1.3	1.7	2.3	2.7	3.0	3.6
Age:												
8–11 years	1,082	0.8	0.0	0.3	0.3	0.4	0.4	0.6	1.0	1.2	1.4	1.7
12–15 years	1,780	1.1	0.0	0.4	0.5	0.6	0.7	1.0	1.4	1.7	2.0	2.4
16–19 years	1,513	1.4	0.0	0.6	0.7	0.8	0.9	1.2	1.7	2.0	2.4	2.8
20–39 years	2,043	1.7	0.0	0.7	0.8	0.9	1.1	1.5	2.1	2.6	2.9	3.5
40–59 years	2,049	2.0	0.0	0.8	1.0	1.1	1.3	1.8	2.4	2.9	3.2	3.9
60–79 years	1,846	2.0	0.0	1.0	1.2	1.3	1.5	1.9	2.4	2.8	3.1	3.6
80 years and older	594	1.6	0.0	0.7	0.8	0.9	1.2	1.6	1.9	2.2	2.4	2.8

See footnotes at end of table.

Table 27. Right arm fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	1.9	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	1.9	0.0	0.9	1.0	1.1	1.3	1.7	2.2	2.6	2.9	3.4
Age:												
8–11 years	342	0.8	0.0	0.3	0.3	0.4	0.4	0.6	1.0	1.2	1.4	1.8
12–15 years	632	1.2	0.0	0.5	0.6	0.7	0.8	1.1	1.4	1.8	2.1	2.5
16–19 years	533	1.4	0.0	0.6	0.7	0.8	0.9	1.2	1.7	2.0	2.4	2.9
20–39 years	492	1.7	0.0	0.8	1.0	1.1	1.2	1.6	2.1	2.5	2.7	3.2
40–59 years	442	2.1	0.1	1.0	1.2	1.3	1.5	1.9	2.5	2.8	3.1	3.5
60–79 years	457	2.0	0.0	1.0	1.2	1.3	1.5	1.9	2.5	2.8	3.0	3.4
80 years and older	47	1.5	0.1	†	0.8	0.9	1.1	1.5	1.8	2.1	2.2	2.7
Non-Hispanic white:												
20 years and older, age adjusted	3,250	1.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	1.8	0.0	0.8	0.9	1.0	1.2	1.7	2.3	2.7	3.0	3.5
Age:												
8–11 years	281	0.8	0.0	0.3	0.3	0.4	0.4	0.6	1.0	1.2	1.4	1.7
12–15 years	448	1.1	0.0	0.4	0.5	0.6	0.7	1.0	1.4	1.7	1.9	2.3
16–19 years	409	1.4	0.0	0.6	0.7	0.8	0.9	1.2	1.6	2.0	2.4	2.7
20–39 years	907	1.7	0.0	0.7	0.8	0.9	1.1	1.4	2.0	2.5	2.7	3.4
40–59 years	964	2.0	0.0	0.8	1.0	1.1	1.3	1.8	2.4	2.9	3.1	3.8
60–79 years	922	2.0	0.0	1.0	1.2	1.3	1.5	1.9	2.4	2.8	3.0	3.5
80 years and older	457	1.6	0.0	0.7	0.8	1.0	1.2	1.6	1.9	2.2	2.5	2.8
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.2	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.2	0.0	0.8	1.0	1.2	1.4	2.0	2.7	3.3	3.7	4.3
Age:												
8–11 years	373	0.8	0.0	0.2	0.3	0.3	0.4	0.6	1.1	1.4	1.6	1.8
12–15 years	558	1.2	0.0	0.4	0.5	0.6	0.7	1.0	1.5	1.9	2.3	2.8
16–19 years	435	1.5	0.1	0.5	0.6	0.7	0.8	1.2	2.0	2.4	2.9	3.8
20–39 years	455	2.0	0.1	0.7	0.9	1.1	1.3	1.8	2.5	3.1	3.5	4.0
40–59 years	453	2.3	0.0	1.0	1.2	1.4	1.6	2.1	2.8	3.4	3.9	4.5
60–79 years	346	2.4	0.1	0.9	1.3	1.5	1.6	2.3	2.9	3.4	3.7	4.2
80 years and older	58	1.7	0.1	0.8	0.9	1.0	1.3	1.7	2.1	2.2	2.4	†

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 28. Right arm percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	26.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	26.1	0.1	15.5	17.5	19.2	21.5	25.6	30.1	32.7	34.9	37.9
Age:												
8–11 years	1,067	30.3	0.5	17.6	19.3	20.2	22.2	28.4	36.8	41.6	45.0	48.4
12–15 years	1,726	25.4	0.4	14.2	15.1	15.9	17.6	22.9	32.0	36.0	39.5	43.9
16–19 years	1,751	21.5	0.3	13.0	13.9	14.4	15.5	19.2	26.2	29.6	32.3	37.1
20–39 years	2,183	23.8	0.2	14.1	15.6	16.8	19.0	23.2	27.7	30.5	32.5	35.8
40–59 years	2,024	26.5	0.2	17.4	19.2	20.5	22.4	26.0	30.0	32.2	33.9	37.0
60–79 years	1,851	29.8	0.2	20.7	22.2	23.6	25.5	29.2	33.7	36.4	37.8	40.7
80 years and older	501	30.9	0.3	20.8	23.4	24.4	26.9	30.4	34.7	37.1	38.5	40.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	26.5	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	25.6	0.3	16.8	18.6	20.0	21.8	25.0	29.0	31.0	32.7	35.7
Age:												
8–11 years	348	33.4	0.6	19.1	20.7	22.1	25.1	32.9	40.9	45.3	46.9	50.3
12–15 years	599	26.9	0.5	14.9	16.1	16.8	18.9	25.5	33.4	37.9	40.4	43.5
16–19 years	611	23.4	0.4	13.8	14.7	15.5	17.3	21.4	27.7	31.1	34.4	40.4
20–39 years	570	24.8	0.3	15.9	17.8	18.9	20.8	24.1	28.2	30.4	31.7	35.2
40–59 years	427	26.3	0.3	18.6	20.2	21.2	22.8	25.9	29.2	30.8	32.2	35.6
60–79 years	443	29.0	0.3	20.7	22.0	23.3	25.5	29.0	32.5	34.6	35.7	37.4
80 years and older	48	30.3	1.0	20.2	20.9	21.5	27.1	31.0	33.7	34.7	37.7	38.6
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	26.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	26.6	0.1	16.1	18.0	19.8	22.0	26.2	30.8	33.2	35.5	38.4
Age:												
8–11 years	280	30.5	0.7	18.3	19.8	21.0	22.8	28.9	36.2	41.5	45.1	48.3
12–15 years	438	25.7	0.6	14.5	15.5	16.3	18.2	23.0	32.2	35.7	39.5	44.0
16–19 years	447	21.8	0.4	13.3	14.2	14.7	15.9	19.5	26.6	29.6	31.9	36.7
20–39 years	934	23.9	0.2	14.2	15.7	16.7	19.0	23.3	27.8	30.8	32.6	35.9
40–59 years	1,013	26.9	0.2	17.9	20.0	20.8	22.9	26.3	30.4	32.5	34.4	37.4
60–79 years	975	30.2	0.2	21.1	22.8	23.9	25.9	29.5	34.3	36.7	38.2	41.1
80 years and older	398	31.0	0.3	21.0	23.4	24.5	26.9	30.6	34.8	37.2	38.4	40.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	23.8	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	23.3	0.2	12.9	14.5	15.8	17.9	22.8	27.6	30.1	32.2	35.9
Age:												
8–11 years	359	26.4	0.5	15.7	17.0	17.6	18.8	22.9	33.1	37.3	41.4	45.4
12–15 years	566	22.7	0.3	12.9	13.6	14.1	15.2	19.1	28.4	33.8	37.2	42.9
16–19 years	551	19.2	0.4	12.1	12.7	13.1	13.6	15.6	22.2	28.1	32.8	36.3
20–39 years	450	21.5	0.3	12.4	13.2	14.2	16.0	20.7	25.4	28.5	30.1	34.2
40–59 years	435	23.7	0.3	14.2	16.0	17.0	19.1	23.2	27.5	30.0	31.7	35.7
60–79 years	324	27.2	0.3	16.9	19.0	20.4	22.9	26.7	31.4	34.3	36.3	38.2
80 years and older	36	28.9	1.2	†	19.6	20.4	23.9	28.4	32.4	33.4	36.2	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	43.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	43.3	0.2	28.4	31.7	34.3	37.6	43.7	49.5	52.3	54.2	56.9
Age:												
8–11 years	1,082	34.8	0.4	20.5	22.9	24.5	27.2	34.0	42.2	45.6	47.6	49.9
12–15 years	1,780	34.7	0.4	21.0	23.0	24.6	28.0	34.4	40.8	44.0	46.4	49.8
16–19 years	1,513	37.3	0.3	24.1	26.7	28.4	31.2	36.8	42.9	46.4	48.2	51.8
20–39 years	2,043	40.5	0.3	26.0	29.4	31.2	34.7	40.6	46.6	49.9	51.9	54.6
40–59 years	2,049	43.9	0.3	29.7	33.1	35.6	38.6	44.2	49.5	52.1	54.3	57.4
60–79 years	1,846	46.9	0.2	34.3	37.3	39.2	42.1	47.4	52.3	54.6	56.0	58.2
80 years and older	594	45.0	0.4	28.6	32.7	36.0	39.6	45.8	51.2	53.8	54.9	57.7

See footnotes at end of table.

Table 28. Right arm percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	44.6	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	43.8	0.4	31.8	34.5	36.0	38.9	43.7	48.7	51.7	53.4	56.0
Age:												
8–11 years	342	36.3	0.6	22.7	24.3	26.2	29.4	35.5	43.3	45.9	48.1	51.5
12–15 years	632	36.9	0.3	23.2	25.9	28.1	31.7	37.2	41.8	45.3	47.2	50.2
16–19 years	533	39.0	0.4	26.6	29.1	31.0	33.9	38.9	43.7	47.1	49.2	52.4
20–39 years	492	42.1	0.4	30.4	33.0	34.8	37.0	42.4	46.9	49.6	51.6	53.8
40–59 years	442	45.6	0.4	34.5	36.6	38.1	40.8	45.5	50.3	52.8	54.9	57.4
60–79 years	457	47.3	0.4	35.3	38.4	40.2	42.4	47.3	52.5	54.9	56.3	58.3
80 years and older	47	45.9	1.6	†	34.6	36.8	41.0	46.2	51.4	53.8	54.5	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	43.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	43.4	0.2	28.1	31.5	34.0	37.6	43.9	49.7	52.5	54.5	57.3
Age:												
8–11 years	281	35.0	0.5	21.2	23.7	25.5	27.4	33.9	42.2	45.6	47.3	49.3
12–15 years	448	34.5	0.6	21.2	22.8	24.2	27.8	33.9	40.5	44.1	46.3	49.5
16–19 years	409	37.3	0.4	24.8	26.8	28.4	31.2	36.8	42.7	46.3	48.0	51.4
20–39 years	907	40.2	0.3	25.0	29.1	30.9	34.1	40.1	46.2	49.6	51.6	54.6
40–59 years	964	43.7	0.3	28.5	32.3	34.9	38.1	44.4	49.6	52.1	54.4	57.5
60–79 years	922	47.1	0.2	34.5	37.5	39.4	42.3	47.6	52.5	54.8	56.3	58.3
80 years and older	457	45.4	0.4	29.1	33.3	36.6	39.7	46.4	51.6	54.2	55.3	57.8
Non-Hispanic black:												
20 years and older, age adjusted	1,312	42.9	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	42.8	0.3	26.9	31.0	33.7	37.2	43.3	49.0	51.7	53.4	55.9
Age:												
8–11 years	373	32.8	0.6	18.4	20.0	21.8	24.0	31.9	40.6	44.8	46.9	49.0
12–15 years	558	32.9	0.4	18.8	21.5	23.2	25.5	31.7	39.5	43.2	45.5	49.4
16–19 years	435	35.3	0.5	20.2	23.3	25.4	28.1	34.3	41.8	45.9	48.9	53.2
20–39 years	455	40.3	0.4	24.5	28.2	30.6	34.4	40.7	46.6	49.9	51.7	53.6
40–59 years	453	44.1	0.4	30.3	33.6	36.1	39.0	44.0	49.8	52.3	54.4	57.0
60–79 years	346	45.9	0.5	31.7	35.1	37.2	40.4	46.7	51.5	53.9	55.1	58.1
80 years and older	58	43.6	1.3	26.5	30.9	33.7	39.1	44.6	48.9	50.2	50.9	†

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 29. Right arm lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.8	0.0	2.7	2.9	3.1	3.3	3.8	4.3	4.6	4.8	5.1
Age:												
8–11 years	1,067	1.4	0.0	0.9	1.0	1.1	1.1	1.3	1.6	1.7	1.8	2.0
12–15 years	1,726	2.5	0.0	1.4	1.6	1.7	1.9	2.5	3.1	3.4	3.5	3.9
16–19 years	1,751	3.5	0.0	2.6	2.8	2.9	3.1	3.5	3.9	4.2	4.4	4.8
20–39 years	2,183	3.9	0.0	2.8	3.0	3.2	3.4	3.8	4.4	4.7	4.9	5.3
40–59 years	2,024	4.0	0.0	2.8	3.1	3.2	3.5	3.9	4.4	4.6	4.9	5.1
60–79 years	1,851	3.5	0.0	2.5	2.7	2.8	3.0	3.5	3.9	4.2	4.4	4.7
80 years and older	501	2.9	0.0	2.1	2.3	2.4	2.6	2.9	3.2	3.4	3.5	3.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.6	0.0	2.7	2.8	3.0	3.2	3.6	4.0	4.3	4.5	4.8
Age:												
8–11 years	348	1.4	0.0	0.9	0.9	1.0	1.1	1.3	1.5	1.8	1.9	2.1
12–15 years	599	2.5	0.0	1.4	1.6	1.8	2.0	2.5	3.0	3.2	3.4	3.7
16–19 years	611	3.4	0.0	2.5	2.6	2.8	2.9	3.3	3.7	4.0	4.2	4.4
20–39 years	570	3.7	0.0	2.7	2.8	3.0	3.2	3.6	4.1	4.3	4.5	4.9
40–59 years	427	3.7	0.0	2.7	3.0	3.1	3.3	3.7	4.1	4.4	4.5	4.8
60–79 years	443	3.4	0.0	2.5	2.6	2.8	3.0	3.3	3.8	3.9	4.1	4.4
80 years and older	48	2.7	0.0	2.0	2.2	2.3	2.4	2.7	2.8	3.0	3.1	3.5
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	3.9	0.0	2.7	2.9	3.1	3.3	3.8	4.3	4.6	4.8	5.1
Age:												
8–11 years	280	1.4	0.0	0.9	1.0	1.1	1.1	1.3	1.5	1.7	1.8	1.9
12–15 years	438	2.5	0.0	1.4	1.5	1.7	1.9	2.5	3.1	3.3	3.5	3.7
16–19 years	447	3.6	0.0	2.6	2.8	2.9	3.1	3.5	4.0	4.3	4.4	4.7
20–39 years	934	4.0	0.0	2.9	3.1	3.3	3.5	3.9	4.4	4.7	4.9	5.2
40–59 years	1,013	4.0	0.0	2.9	3.1	3.3	3.5	4.0	4.4	4.6	4.8	5.1
60–79 years	975	3.5	0.0	2.6	2.7	2.8	3.1	3.5	3.9	4.2	4.4	4.6
80 years and older	398	2.9	0.0	2.1	2.3	2.4	2.6	2.9	3.2	3.4	3.5	3.6
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.2	0.0	2.9	3.1	3.3	3.6	4.1	4.8	5.1	5.3	5.7
Age:												
8–11 years	359	1.5	0.0	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.0	2.3
12–15 years	566	2.8	0.0	1.6	1.7	1.9	2.1	2.7	3.3	3.6	3.8	4.1
16–19 years	551	3.8	0.0	2.7	2.9	3.1	3.3	3.7	4.2	4.5	4.8	5.1
20–39 years	450	4.3	0.0	3.1	3.2	3.4	3.6	4.2	4.8	5.2	5.5	5.9
40–59 years	435	4.3	0.0	3.0	3.2	3.4	3.7	4.2	4.8	5.1	5.3	5.6
60–79 years	324	3.8	0.0	2.6	2.9	3.0	3.3	3.8	4.3	4.6	4.8	5.1
80 years and older	36	3.2	0.1	†	2.3	2.4	2.9	3.2	3.4	3.7	4.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	2.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	2.2	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.8	3.1
Age:												
8–11 years	1,082	1.3	0.0	0.8	0.9	0.9	1.0	1.3	1.5	1.7	1.8	2.0
12–15 years	1,780	1.9	0.0	1.3	1.5	1.5	1.6	1.9	2.1	2.2	2.4	2.6
16–19 years	1,513	2.0	0.0	1.5	1.6	1.6	1.7	2.0	2.3	2.4	2.6	2.8
20–39 years	2,043	2.2	0.0	1.6	1.7	1.7	1.9	2.1	2.4	2.7	2.8	3.1
40–59 years	2,049	2.2	0.0	1.5	1.7	1.7	1.9	2.2	2.5	2.7	2.9	3.1
60–79 years	1,846	2.0	0.0	1.5	1.5	1.6	1.7	2.0	2.3	2.5	2.6	2.9
80 years and older	594	1.8	0.0	1.3	1.4	1.4	1.5	1.7	2.0	2.1	2.2	2.4

See footnotes at end of table.

Table 29. Right arm lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	2.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	2.1	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.7	2.9
Age:												
8–11 years	342	1.2	0.0	0.7	0.8	0.9	0.9	1.2	1.4	1.6	1.7	1.8
12–15 years	632	1.8	0.0	1.4	1.4	1.5	1.6	1.8	2.0	2.2	2.3	2.6
16–19 years	533	1.9	0.0	1.4	1.5	1.5	1.6	1.8	2.1	2.3	2.5	2.7
20–39 years	492	2.1	0.0	1.5	1.6	1.7	1.8	2.1	2.4	2.6	2.8	3.0
40–59 years	442	2.2	0.0	1.5	1.7	1.7	1.9	2.1	2.5	2.6	2.8	3.0
60–79 years	457	2.0	0.0	1.4	1.6	1.6	1.8	2.0	2.2	2.4	2.5	2.7
80 years and older	47	1.6	0.0	†	1.3	1.4	1.5	1.6	1.7	1.9	2.0	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	2.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	2.1	0.0	1.5	1.6	1.7	1.8	2.0	2.3	2.5	2.7	2.9
Age:												
8–11 years	281	1.3	0.0	0.8	0.9	0.9	1.0	1.2	1.5	1.7	1.8	1.9
12–15 years	448	1.8	0.0	1.3	1.4	1.5	1.6	1.8	2.1	2.2	2.3	2.4
16–19 years	409	2.0	0.0	1.5	1.6	1.6	1.7	1.9	2.3	2.4	2.5	2.7
20–39 years	907	2.1	0.0	1.6	1.7	1.7	1.9	2.1	2.4	2.6	2.7	2.9
40–59 years	964	2.2	0.0	1.5	1.7	1.7	1.9	2.1	2.5	2.6	2.8	3.1
60–79 years	922	2.0	0.0	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.5	2.7
80 years and older	457	1.8	0.0	1.3	1.3	1.4	1.5	1.7	2.0	2.1	2.2	2.3
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.5	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.6	0.0	1.8	1.9	2.0	2.1	2.5	2.9	3.2	3.4	3.6
Age:												
8–11 years	373	1.5	0.0	0.9	1.0	1.1	1.2	1.4	1.7	1.9	2.0	2.2
12–15 years	558	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.7	2.9
16–19 years	435	2.3	0.0	1.7	1.8	1.9	2.0	2.2	2.6	2.8	3.0	3.4
20–39 years	455	2.6	0.0	1.8	1.9	2.0	2.1	2.5	2.9	3.3	3.4	3.7
40–59 years	453	2.6	0.0	1.8	1.9	2.0	2.2	2.5	2.9	3.1	3.4	3.7
60–79 years	346	2.5	0.0	1.7	1.9	1.9	2.1	2.4	2.8	3.0	3.2	3.3
80 years and older	58	2.1	0.1	1.5	1.6	1.7	1.8	2.0	2.3	2.4	2.5	2.7

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Right arm lean soft tissue does not include bone mineral content.

Table 30. Right arm fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	4.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	4.1	0.0	2.9	3.1	3.3	3.5	4.0	4.6	4.9	5.1	5.4
Age:												
8–11 years	1,067	1.5	0.0	1.0	1.1	1.1	1.2	1.4	1.6	1.8	1.9	2.1
12–15 years	1,726	2.7	0.0	1.5	1.6	1.8	2.0	2.7	3.2	3.6	3.7	4.1
16–19 years	1,751	3.7	0.0	2.7	2.9	3.1	3.3	3.7	4.2	4.5	4.7	5.0
20–39 years	2,183	4.2	0.0	3.0	3.2	3.4	3.6	4.1	4.7	5.0	5.2	5.6
40–59 years	2,024	4.2	0.0	3.0	3.3	3.4	3.7	4.2	4.6	4.9	5.1	5.4
60–79 years	1,851	3.7	0.0	2.7	2.9	3.0	3.2	3.7	4.2	4.5	4.6	4.9
80 years and older	501	3.1	0.0	2.3	2.5	2.6	2.7	3.1	3.4	3.6	3.7	3.9
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.9	0.0	2.9	3.0	3.2	3.4	3.8	4.3	4.6	4.7	5.1
Age:												
8–11 years	348	1.4	0.0	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.0	2.2
12–15 years	599	2.6	0.0	1.5	1.7	1.9	2.1	2.6	3.1	3.3	3.6	3.9
16–19 years	611	3.5	0.0	2.6	2.8	2.9	3.1	3.5	3.9	4.2	4.4	4.6
20–39 years	570	3.9	0.0	2.9	3.0	3.2	3.4	3.8	4.3	4.6	4.8	5.2
40–59 years	427	3.9	0.0	2.9	3.2	3.3	3.5	3.9	4.3	4.6	4.8	5.0
60–79 years	443	3.6	0.0	2.6	2.8	3.0	3.1	3.5	4.0	4.2	4.3	4.6
80 years and older	48	2.9	0.1	2.2	2.4	2.5	2.6	2.9	3.0	3.2	3.2	3.7
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	4.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	4.1	0.0	2.9	3.1	3.3	3.6	4.1	4.6	4.8	5.0	5.4
Age:												
8–11 years	280	1.4	0.0	1.0	1.1	1.1	1.2	1.4	1.6	1.7	1.9	2.0
12–15 years	438	2.7	0.0	1.5	1.6	1.8	2.0	2.6	3.2	3.5	3.7	3.9
16–19 years	447	3.8	0.0	2.8	3.0	3.1	3.3	3.7	4.2	4.5	4.7	5.0
20–39 years	934	4.2	0.0	3.1	3.3	3.5	3.7	4.1	4.7	5.0	5.2	5.5
40–59 years	1,013	4.2	0.0	3.1	3.4	3.5	3.7	4.2	4.6	4.9	5.1	5.4
60–79 years	975	3.8	0.0	2.7	2.9	3.1	3.3	3.7	4.2	4.5	4.6	4.9
80 years and older	398	3.1	0.0	2.3	2.5	2.6	2.8	3.1	3.4	3.6	3.7	3.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.5	0.0	3.1	3.4	3.5	3.8	4.4	5.0	5.4	5.6	6.0
Age:												
8–11 years	359	1.6	0.0	1.1	1.2	1.2	1.3	1.5	1.8	2.0	2.2	2.4
12–15 years	566	2.9	0.0	1.7	1.8	2.0	2.3	2.9	3.5	3.8	4.1	4.3
16–19 years	551	4.0	0.0	2.9	3.1	3.3	3.5	3.9	4.4	4.8	5.0	5.4
20–39 years	450	4.6	0.1	3.3	3.4	3.6	3.9	4.4	5.1	5.5	5.8	6.2
40–59 years	435	4.5	0.0	3.2	3.4	3.6	3.9	4.5	5.1	5.4	5.6	5.9
60–79 years	324	4.1	0.0	2.8	3.0	3.2	3.5	4.1	4.5	4.9	5.1	5.4
80 years and older	36	3.4	0.1	†	2.5	2.6	3.1	3.4	3.7	4.0	4.3	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	2.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	2.3	0.0	1.6	1.7	1.8	2.0	2.2	2.6	2.8	3.0	3.2
Age:												
8–11 years	1,082	1.4	0.0	0.8	0.9	1.0	1.1	1.3	1.6	1.8	1.9	2.1
12–15 years	1,780	2.0	0.0	1.4	1.6	1.6	1.7	2.0	2.2	2.4	2.5	2.8
16–19 years	1,513	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.8	3.0
20–39 years	2,043	2.4	0.0	1.7	1.8	1.9	2.0	2.3	2.6	2.8	3.0	3.3
40–59 years	2,049	2.4	0.0	1.7	1.8	1.9	2.0	2.3	2.7	2.9	3.0	3.3
60–79 years	1,846	2.2	0.0	1.6	1.7	1.7	1.9	2.1	2.4	2.6	2.8	3.0
80 years and older	594	1.9	0.0	1.4	1.5	1.5	1.6	1.8	2.1	2.3	2.4	2.5

See footnotes at end of table.

Table 30. Right arm fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	2.2	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	2.3	0.0	1.6	1.7	1.8	1.9	2.2	2.6	2.8	2.9	3.1
Age:												
8–11 years	342	1.3	0.0	0.8	0.9	0.9	1.0	1.2	1.5	1.7	1.8	1.9
12–15 years	632	2.0	0.0	1.5	1.5	1.6	1.7	1.9	2.2	2.3	2.5	2.8
16–19 years	533	2.1	0.0	1.5	1.6	1.6	1.8	2.0	2.3	2.5	2.6	2.9
20–39 years	492	2.3	0.0	1.6	1.7	1.8	1.9	2.2	2.5	2.8	2.9	3.1
40–59 years	442	2.3	0.0	1.7	1.8	1.9	2.0	2.3	2.6	2.8	2.9	3.1
60–79 years	457	2.1	0.0	1.5	1.7	1.8	1.9	2.1	2.4	2.5	2.7	2.8
80 years and older	47	1.7	0.1	†	1.4	1.5	1.5	1.7	1.8	2.0	2.1	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	2.3	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	2.3	0.0	1.6	1.7	1.8	1.9	2.2	2.5	2.7	2.9	3.1
Age:												
8–11 years	281	1.4	0.0	0.8	0.9	1.0	1.1	1.3	1.6	1.7	1.9	2.0
12–15 years	448	2.0	0.0	1.4	1.5	1.6	1.7	1.9	2.2	2.3	2.4	2.6
16–19 years	409	2.2	0.0	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.7	2.9
20–39 years	907	2.3	0.0	1.7	1.8	1.9	2.0	2.2	2.5	2.7	2.9	3.0
40–59 years	964	2.3	0.0	1.7	1.8	1.9	2.0	2.3	2.6	2.8	3.0	3.2
60–79 years	922	2.1	0.0	1.6	1.7	1.7	1.8	2.1	2.4	2.5	2.7	2.9
80 years and older	457	1.9	0.0	1.4	1.4	1.5	1.6	1.8	2.1	2.2	2.3	2.5
Non-Hispanic black:												
20 years and older, age adjusted	1,312	2.7	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	2.7	0.0	1.9	2.1	2.1	2.3	2.6	3.1	3.4	3.5	3.8
Age:												
8–11 years	373	1.5	0.0	0.9	1.1	1.1	1.2	1.5	1.8	2.0	2.1	2.3
12–15 years	558	2.3	0.0	1.7	1.8	1.9	2.0	2.2	2.5	2.8	2.9	3.1
16–19 years	435	2.5	0.0	1.8	1.9	2.0	2.1	2.4	2.8	3.0	3.2	3.6
20–39 years	455	2.8	0.0	2.0	2.1	2.2	2.3	2.7	3.1	3.4	3.6	3.9
40–59 years	453	2.8	0.0	2.0	2.1	2.2	2.3	2.7	3.0	3.3	3.6	3.9
60–79 years	346	2.6	0.0	1.9	2.0	2.1	2.2	2.6	3.0	3.2	3.4	3.5
80 years and older	58	2.2	0.1	1.6	1.7	1.8	1.9	2.1	2.4	2.6	2.7	2.9

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Right arm fat-free mass includes bone mineral content.

Table 31. Right leg total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	14.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	14.1	0.1	9.8	10.5	11.1	11.9	13.6	15.8	17.1	18.0	19.8
Age:												
8–11 years	1,067	6.9	0.1	4.1	4.5	4.8	5.2	6.5	8.1	9.2	10.1	11.4
12–15 years	1,726	11.3	0.1	6.4	7.2	7.8	8.8	10.8	13.1	14.8	16.0	17.9
16–19 years	1,751	13.7	0.1	9.3	9.9	10.2	11.1	13.0	15.5	17.2	18.2	20.4
20–39 years	2,183	14.4	0.1	9.7	10.4	11.0	11.9	13.8	16.1	17.5	18.6	21.0
40–59 years	2,024	14.3	0.1	10.2	11.0	11.5	12.3	13.8	16.0	17.2	18.0	19.6
60–79 years	1,851	13.4	0.1	9.5	10.2	10.6	11.5	13.2	15.0	16.2	17.0	18.2
80 years and older	501	11.8	0.1	8.6	9.3	9.7	10.3	11.5	13.0	14.0	14.8	15.9
Mexican American:												
Age 20 years and older, age adjusted	1,488	12.6	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	12.8	0.1	9.1	9.8	10.2	10.9	12.4	14.2	15.4	16.4	17.7
Age:												
8–11 years	348	7.2	0.1	4.1	4.4	4.7	5.2	6.6	8.8	10.1	10.8	12.5
12–15 years	599	11.1	0.1	6.4	7.3	7.8	8.8	10.7	12.9	14.4	15.5	17.1
16–19 years	611	13.1	0.2	8.9	9.4	9.9	10.5	12.2	15.0	16.4	17.6	19.8
20–39 years	570	12.9	0.2	8.9	9.8	10.3	10.9	12.5	14.4	15.7	16.7	18.2
40–59 years	427	12.8	0.1	9.3	9.9	10.3	11.2	12.4	14.0	15.0	15.9	17.2
60–79 years	443	12.1	0.1	8.7	9.3	9.8	10.4	11.8	13.5	14.5	15.1	16.6
80 years and older	48	10.6	0.3	7.8	8.7	9.2	9.7	10.3	11.1	12.1	12.2	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	14.2	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	14.2	0.1	10.0	10.7	11.3	12.2	13.8	15.9	17.1	17.9	19.5
Age:												
8–11 years	280	6.7	0.1	4.0	4.5	4.8	5.2	6.4	7.7	8.8	9.5	10.8
12–15 years	438	11.2	0.2	6.5	7.1	7.8	8.8	10.8	12.9	14.6	15.7	17.2
16–19 years	447	13.8	0.2	9.4	9.9	10.4	11.4	13.1	15.7	17.3	18.2	20.1
20–39 years	934	14.5	0.1	9.9	10.6	11.3	12.2	14.0	16.2	17.5	18.5	20.7
40–59 years	1,013	14.5	0.1	10.6	11.3	11.8	12.6	14.0	16.2	17.3	18.1	19.4
60–79 years	975	13.6	0.1	9.7	10.4	10.9	11.8	13.4	15.1	16.2	17.1	18.2
80 years and older	398	11.8	0.1	8.8	9.4	9.7	10.4	11.6	13.1	14.0	14.8	15.8
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	15.0	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	15.2	0.1	10.1	10.9	11.5	12.4	14.5	17.0	18.8	20.4	22.7
Age:												
8–11 years	359	7.5	0.1	4.3	4.7	5.1	5.5	6.7	8.7	10.4	11.3	13.2
12–15 years	566	12.2	0.1	6.7	7.8	8.4	9.6	11.5	14.1	15.9	17.4	20.0
16–19 years	551	14.5	0.2	9.6	10.4	10.9	11.5	13.4	16.2	18.4	20.7	23.8
20–39 years	450	15.8	0.2	10.3	11.2	11.8	12.6	14.9	17.8	19.9	21.4	24.3
40–59 years	435	15.0	0.2	10.1	10.9	11.5	12.5	14.5	16.7	18.3	20.0	22.3
60–79 years	324	14.1	0.2	9.4	10.2	10.8	11.8	13.7	15.8	17.4	18.3	19.8
80 years and older	36	12.6	0.4	†	9.1	10.2	10.9	12.4	13.6	14.3	16.2	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	12.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	12.9	0.1	8.3	9.1	9.6	10.4	12.2	14.6	16.3	17.7	19.9
Age:												
8–11 years	1,082	7.3	0.1	4.0	4.5	4.9	5.4	6.9	8.9	10.0	10.7	12.3
12–15 years	1,780	10.7	0.1	6.9	7.6	8.1	8.8	10.2	12.0	13.6	14.6	16.4
16–19 years	1,513	12.0	0.1	8.0	8.4	9.0	9.7	11.2	13.3	15.0	16.3	18.6
20–39 years	2,043	13.0	0.1	8.5	9.2	9.7	10.4	12.3	14.8	16.5	18.0	20.3
40–59 years	2,049	13.3	0.1	8.5	9.3	9.7	10.6	12.6	15.2	16.9	18.3	20.3
60–79 years	1,846	12.4	0.1	8.0	9.0	9.4	10.1	11.9	14.1	15.6	16.7	18.6
80 years and older	594	10.8	0.2	7.4	7.9	8.3	8.9	10.4	12.1	13.2	14.2	15.5

See footnotes at end of table.

Table 31. Right leg total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	11.7	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	11.9	0.1	8.0	8.6	9.0	9.8	11.5	13.6	14.8	15.9	17.4
Age:												
8–11 years	342	6.9	0.1	3.9	4.2	4.5	5.0	6.3	8.2	9.6	10.2	11.2
12–15 years	632	10.5	0.1	6.9	7.5	7.9	8.6	10.0	11.9	12.9	14.4	16.4
16–19 years	533	11.3	0.1	7.5	8.1	8.6	9.2	10.6	12.7	14.3	15.6	17.4
20–39 years	492	11.9	0.2	8.1	8.7	9.1	9.9	11.4	13.6	14.6	15.9	17.5
40–59 years	442	12.3	0.2	8.4	8.8	9.4	10.1	11.9	13.7	15.2	16.3	17.5
60–79 years	457	11.1	0.1	7.2	7.9	8.4	9.2	10.7	12.7	14.0	14.9	16.1
80 years and older	47	9.0	0.4	†	6.7	7.1	7.5	8.9	10.0	10.6	†	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	12.8	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	12.7	0.1	8.4	9.1	9.6	10.4	12.1	14.3	16.0	17.3	19.4
Age:												
8–11 years	281	7.2	0.2	4.0	4.6	4.9	5.5	6.8	8.6	9.8	10.5	11.7
12–15 years	448	10.4	0.2	6.8	7.5	7.9	8.6	10.0	11.7	13.1	14.0	15.3
16–19 years	409	11.9	0.2	8.1	8.5	9.2	9.9	11.3	13.2	14.6	15.8	18.4
20–39 years	907	12.8	0.1	8.6	9.3	9.7	10.4	12.1	14.4	16.0	17.2	19.6
40–59 years	964	13.2	0.1	8.7	9.3	9.8	10.7	12.6	15.0	16.7	18.0	20.0
60–79 years	922	12.4	0.1	8.3	9.1	9.5	10.2	11.9	13.9	15.2	16.4	18.2
80 years and older	457	10.9	0.2	7.4	8.1	8.4	9.0	10.4	12.1	13.1	14.1	15.4
Non-Hispanic black:												
20 years and older, age adjusted	1,312	15.2	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	15.3	0.1	9.5	10.5	11.2	12.2	14.6	17.6	19.6	21.1	23.4
Age:												
8–11 years	373	8.3	0.2	4.4	5.0	5.4	6.0	7.7	9.9	11.0	12.0	13.8
12–15 years	558	12.3	0.2	8.0	8.7	9.2	9.8	11.4	13.9	16.0	17.1	19.3
16–19 years	435	13.7	0.2	8.6	9.4	9.8	10.5	12.3	15.8	18.0	19.3	22.7
20–39 years	455	15.4	0.2	9.7	10.6	11.3	12.2	14.8	17.7	19.8	21.4	23.5
40–59 years	453	15.7	0.2	9.9	11.0	11.6	12.6	15.0	17.6	19.6	21.3	24.3
60–79 years	346	14.7	0.3	9.1	9.8	10.5	11.6	14.3	17.2	18.8	20.1	22.2
80 years and older	58	12.0	0.4	8.3	8.8	9.2	10.1	11.5	13.7	14.7	15.4	16.3

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 32. Right leg fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male				Kilograms								
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	4.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	4.0	0.0	1.9	2.2	2.5	2.9	3.7	4.8	5.5	6.1	7.1
Age:												
8–11 years	1,067	2.4	0.1	1.0	1.1	1.2	1.4	2.0	3.1	3.7	4.2	5.2
12–15 years	1,726	3.4	0.1	1.4	1.6	1.7	2.0	2.9	4.3	5.3	6.1	7.3
16–19 years	1,751	3.6	0.1	1.5	1.7	1.9	2.2	3.0	4.6	5.5	6.4	8.1
20–39 years	2,183	4.0	0.0	1.7	2.0	2.3	2.7	3.6	4.8	5.7	6.3	7.5
40–59 years	2,024	4.0	0.0	2.1	2.5	2.6	3.0	3.8	4.8	5.5	5.9	6.9
60–79 years	1,851	4.0	0.0	2.1	2.4	2.6	3.0	3.7	4.7	5.5	5.9	6.7
80 years and older	501	3.6	0.1	2.1	2.3	2.5	2.8	3.4	4.2	4.7	5.2	6.1
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.6	0.1	1.8	2.1	2.3	2.6	3.3	4.2	4.8	5.4	6.2
Age:												
8–11 years	348	2.7	0.1	1.0	1.2	1.3	1.6	2.3	3.5	4.3	5.0	5.8
12–15 years	599	3.5	0.1	1.4	1.6	1.8	2.0	3.1	4.6	5.5	6.0	6.9
16–19 years	611	3.7	0.1	1.6	1.8	1.9	2.3	3.1	4.7	5.7	6.6	7.9
20–39 years	570	3.6	0.1	1.8	2.1	2.3	2.6	3.3	4.3	5.0	5.6	6.3
40–59 years	427	3.5	0.1	1.8	2.1	2.4	2.7	3.3	4.1	4.5	5.0	6.0
60–79 years	443	3.5	0.1	1.9	2.1	2.3	2.7	3.3	4.1	4.7	5.1	5.8
80 years and older	48	3.1	0.2	1.8	2.3	2.3	2.4	3.1	3.4	3.6	4.0	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	4.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	4.1	0.0	2.0	2.4	2.6	3.0	3.8	4.8	5.6	6.1	7.1
Age:												
8–11 years	280	2.3	0.1	1.0	1.2	1.3	1.5	2.0	3.0	3.5	3.9	5.0
12–15 years	438	3.4	0.1	1.4	1.6	1.7	2.0	2.9	4.3	5.2	6.0	7.3
16–19 years	447	3.7	0.1	1.6	1.8	2.0	2.3	3.1	4.8	5.6	6.4	7.9
20–39 years	934	4.0	0.1	1.8	2.1	2.4	2.7	3.7	4.9	5.7	6.4	7.5
40–59 years	1,013	4.2	0.1	2.3	2.6	2.8	3.1	3.9	4.9	5.5	6.0	7.0
60–79 years	975	4.1	0.0	2.2	2.5	2.7	3.1	3.8	4.8	5.6	6.0	6.8
80 years and older	398	3.6	0.1	2.1	2.3	2.5	2.9	3.4	4.2	4.7	5.2	6.0
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.1	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.1	0.1	1.6	2.0	2.2	2.7	3.8	5.1	6.0	6.9	8.0
Age:												
8–11 years	359	2.4	0.1	0.8	1.0	1.1	1.2	1.9	3.0	4.1	4.8	5.6
12–15 years	566	3.4	0.1	1.2	1.4	1.6	1.8	2.6	4.3	5.6	6.7	8.0
16–19 years	551	3.6	0.1	1.3	1.5	1.7	1.9	2.6	4.3	5.9	7.2	9.4
20–39 years	450	4.2	0.1	1.5	1.8	2.0	2.5	3.7	5.3	6.3	7.4	8.6
40–59 years	435	4.1	0.1	1.7	2.1	2.3	2.7	3.7	4.8	5.6	6.6	7.5
60–79 years	324	4.1	0.1	1.8	2.3	2.6	2.9	3.9	5.0	5.9	6.5	7.3
80 years and older	36	3.8	0.2	†	2.4	2.5	2.8	3.6	4.7	5.1	5.4	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	5.7	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	5.7	0.1	2.9	3.3	3.7	4.1	5.3	6.9	7.9	8.7	10.1
Age:												
8–11 years	1,082	2.8	0.1	1.2	1.4	1.5	1.8	2.5	3.6	4.2	4.7	5.5
12–15 years	1,780	4.1	0.1	2.0	2.3	2.6	2.9	3.8	4.9	5.8	6.5	7.6
16–19 years	1,513	4.9	0.1	2.6	2.9	3.1	3.6	4.4	5.6	6.8	7.6	9.0
20–39 years	2,043	5.6	0.1	2.8	3.2	3.5	4.0	5.1	6.7	7.8	8.6	10.2
40–59 years	2,049	6.0	0.1	3.0	3.5	3.8	4.3	5.5	7.2	8.2	9.1	10.4
60–79 years	1,846	5.7	0.0	2.9	3.4	3.8	4.3	5.4	6.8	7.7	8.4	9.9
80 years and older	594	4.9	0.1	2.4	2.9	3.2	3.8	4.7	5.8	6.5	7.1	8.0

See footnotes at end of table.

Table 32. Right leg fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	5.2	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	5.3	0.1	2.8	3.2	3.6	4.0	5.0	6.3	7.1	7.9	8.7
Age:												
8–11 years	342	2.7	0.1	1.1	1.4	1.6	1.7	2.4	3.5	4.2	4.6	5.2
12–15 years	632	4.2	0.1	2.2	2.5	2.7	3.1	3.9	4.9	5.7	6.3	7.7
16–19 years	533	4.8	0.1	2.6	3.0	3.2	3.5	4.3	5.6	6.6	7.2	8.3
20–39 years	492	5.2	0.1	2.8	3.2	3.5	4.0	4.9	6.2	7.0	7.5	8.5
40–59 years	442	5.5	0.1	3.1	3.5	3.8	4.3	5.3	6.3	7.4	8.1	9.1
60–79 years	457	5.1	0.1	2.5	2.9	3.2	3.8	4.8	6.1	7.2	7.7	8.4
80 years and older	47	4.1	0.3	†	2.2	2.5	3.0	4.1	4.9	5.3	6.2	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	5.7	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	5.7	0.1	2.9	3.4	3.7	4.1	5.3	6.8	7.8	8.6	10.0
Age:												
8–11 years	281	2.8	0.1	1.2	1.4	1.6	1.9	2.4	3.5	4.1	4.6	5.5
12–15 years	448	4.0	0.1	1.9	2.2	2.4	2.8	3.7	4.9	5.6	6.4	7.1
16–19 years	409	4.9	0.1	2.6	2.9	3.2	3.6	4.5	5.5	6.6	7.5	8.8
20–39 years	907	5.5	0.1	2.8	3.2	3.5	3.9	5.1	6.6	7.7	8.4	9.9
40–59 years	964	5.9	0.1	3.0	3.5	3.8	4.3	5.4	7.2	8.2	9.0	10.3
60–79 years	922	5.7	0.1	3.1	3.5	3.9	4.4	5.5	6.8	7.6	8.3	9.7
80 years and older	457	5.0	0.1	2.4	3.0	3.4	3.8	4.7	5.8	6.6	7.1	8.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	6.8	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	6.8	0.1	3.2	3.8	4.2	4.9	6.4	8.2	9.5	10.4	11.8
Age:												
8–11 years	373	3.1	0.1	1.1	1.3	1.5	1.8	2.7	4.0	4.7	5.2	6.1
12–15 years	558	4.6	0.1	2.1	2.5	2.7	3.1	4.1	5.8	6.8	7.6	9.0
16–19 years	435	5.5	0.1	2.4	2.9	3.2	3.7	4.7	6.9	8.3	9.0	10.6
20–39 years	455	6.7	0.1	3.1	3.7	4.1	4.7	6.3	8.1	9.4	10.3	11.5
40–59 years	453	7.2	0.1	3.5	4.2	4.6	5.3	6.7	8.5	9.8	10.9	12.9
60–79 years	346	6.7	0.2	2.9	3.5	4.0	4.8	6.4	8.5	9.6	10.3	11.7
80 years and older	58	5.3	0.2	2.8	3.3	3.7	4.0	5.1	6.2	7.0	7.5	8.1

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 33. Right leg percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	27.9	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	27.8	0.1	18.0	20.1	21.5	23.6	27.6	31.6	34.0	35.6	38.3
Age:												
8–11 years	1,067	33.3	0.4	21.1	23.5	24.8	27.3	32.6	39.2	42.6	44.7	47.2
12–15 years	1,726	29.2	0.3	16.8	18.3	19.7	22.2	27.9	35.7	38.9	42.0	45.3
16–19 years	1,751	25.5	0.3	14.7	16.2	17.3	19.3	24.2	31.0	34.0	36.0	39.9
20–39 years	2,183	26.9	0.1	16.3	18.7	19.9	22.3	26.7	30.8	33.6	35.4	38.4
40–59 years	2,024	27.8	0.2	18.9	21.0	22.2	23.9	27.6	31.3	33.3	34.8	37.2
60–79 years	1,851	29.5	0.2	20.7	22.4	23.6	25.3	28.9	33.3	35.7	37.5	39.6
80 years and older	501	30.5	0.3	21.7	23.4	24.7	26.7	30.0	33.9	36.0	37.5	40.5
Mexican American:												
Age 20 years and older, age adjusted	1,488	27.6	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	27.5	0.2	19.0	20.8	22.1	23.6	27.1	30.9	32.9	34.7	36.9
Age:												
8–11 years	348	35.9	0.4	22.8	25.5	27.2	29.8	35.8	41.8	44.4	46.3	49.0
12–15 years	599	30.5	0.5	18.0	19.8	21.2	23.9	29.9	36.9	39.8	41.6	44.7
16–19 years	611	27.4	0.3	16.3	18.1	19.5	21.8	26.3	32.0	35.9	38.1	41.4
20–39 years	570	27.5	0.3	18.9	20.8	22.1	23.7	27.3	31.0	32.9	34.9	36.8
40–59 years	427	27.0	0.4	18.9	20.6	21.7	23.2	26.5	30.3	32.6	33.8	37.2
60–79 years	443	28.6	0.3	20.2	21.8	23.1	24.8	28.6	32.0	33.9	35.1	37.4
80 years and older	48	29.1	0.9	22.2	23.0	23.2	26.1	29.2	31.6	33.3	34.9	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	28.1	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	28.2	0.1	18.7	20.7	22.1	23.9	27.9	31.9	34.2	36.0	38.6
Age:												
8–11 years	280	33.7	0.6	22.9	24.6	25.6	27.9	32.4	39.0	42.5	44.2	46.9
12–15 years	438	29.7	0.5	17.5	18.7	20.4	22.8	28.2	35.8	39.0	42.3	45.6
16–19 years	447	25.8	0.4	15.5	16.5	17.9	20.0	24.5	31.7	34.0	35.8	39.9
20–39 years	934	27.0	0.2	16.6	18.8	20.0	22.3	26.8	30.9	33.6	35.5	38.7
40–59 years	1,013	28.2	0.2	19.7	21.4	22.8	24.4	28.0	31.5	33.6	35.1	37.4
60–79 years	975	29.8	0.2	21.0	22.8	23.8	25.6	29.3	33.5	36.1	37.8	39.8
80 years and older	398	30.5	0.3	21.6	23.4	24.7	26.7	30.0	33.9	36.1	37.7	40.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	26.6	0.2	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	26.3	0.2	14.6	16.7	18.7	21.4	26.4	30.9	33.5	34.9	37.7
Age:												
8–11 years	359	29.7	0.5	17.3	18.8	19.9	22.2	28.6	36.2	40.4	42.3	46.0
12–15 years	566	26.5	0.3	14.6	15.8	16.6	18.8	24.3	32.7	37.8	40.7	44.8
16–19 years	551	22.7	0.4	13.2	14.0	14.7	16.0	19.9	27.6	33.0	36.8	39.7
20–39 years	450	25.5	0.3	13.7	15.0	16.5	20.0	25.1	30.4	33.9	35.0	38.4
40–59 years	435	26.3	0.3	16.0	18.4	19.8	22.0	26.2	30.4	32.5	33.8	36.4
60–79 years	324	28.6	0.3	18.2	20.2	21.9	24.7	28.0	32.3	35.1	37.0	39.4
80 years and older	36	30.1	1.0	†	22.1	22.8	26.3	30.3	33.5	35.4	36.5	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	43.5	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	43.6	0.2	32.1	34.7	36.7	39.3	43.9	48.3	50.6	51.9	53.8
Age:												
8–11 years	1,082	37.7	0.4	26.2	28.4	30.2	32.7	37.9	42.8	45.1	46.8	48.2
12–15 years	1,780	37.7	0.3	26.4	28.8	30.7	33.3	37.6	42.2	44.4	46.4	48.7
16–19 years	1,513	40.1	0.3	29.3	31.9	33.6	35.9	40.1	44.2	46.8	48.2	50.5
20–39 years	2,043	42.2	0.2	31.4	33.5	35.3	37.7	42.3	46.7	49.1	50.3	52.3
40–59 years	2,049	44.0	0.2	32.4	35.2	37.4	39.9	44.4	48.4	50.7	51.9	53.8
60–79 years	1,846	45.3	0.1	34.2	36.8	38.5	41.3	45.8	49.9	52.1	53.5	55.2
80 years and older	594	44.7	0.3	31.5	35.0	37.4	40.3	45.4	49.8	51.6	52.8	54.8

See footnotes at end of table.

Table 33. Right leg percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	44.0	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	43.7	0.3	33.0	35.7	37.3	40.0	43.9	47.9	49.7	51.1	53.3
Age:												
8–11 years	342	38.9	0.5	27.9	30.7	31.7	34.0	38.9	43.6	45.9	47.8	49.7
12–15 years	632	39.4	0.2	29.2	31.5	33.1	35.7	39.4	43.3	45.2	46.6	49.1
16–19 years	533	41.4	0.3	32.2	34.3	35.8	37.8	41.1	45.2	47.7	48.7	50.5
20–39 years	492	43.0	0.3	32.5	35.2	36.4	39.3	43.2	47.0	49.0	50.2	51.7
40–59 years	442	44.6	0.3	34.1	37.4	38.9	41.2	44.8	48.3	50.4	51.7	53.6
60–79 years	457	45.0	0.5	33.6	35.8	37.9	40.7	45.1	50.0	52.1	53.5	55.0
80 years and older	47	44.4	1.6	29.7	32.6	34.4	40.1	44.0	49.9	52.3	53.2	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	43.6	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	43.8	0.2	32.2	34.8	36.8	39.4	44.1	48.6	50.8	52.1	54.2
Age:												
8–11 years	281	38.0	0.5	27.1	29.2	30.7	33.3	38.0	42.6	45.0	46.7	48.1
12–15 years	448	37.6	0.5	26.3	28.4	30.3	33.1	37.3	42.2	44.6	46.7	48.6
16–19 years	409	40.2	0.4	29.1	32.0	33.6	36.1	40.3	44.1	46.8	48.1	50.7
20–39 years	907	42.1	0.3	31.0	33.4	35.1	37.6	42.1	46.7	49.1	50.3	52.7
40–59 years	964	44.0	0.3	32.1	34.9	37.2	39.9	44.4	48.6	50.9	52.0	53.9
60–79 years	922	45.7	0.2	35.0	37.7	39.1	41.7	46.0	50.1	52.3	53.6	55.3
80 years and older	457	45.0	0.3	32.0	35.7	37.8	40.7	45.6	50.0	52.0	53.2	55.0
Non-Hispanic black:												
20 years and older, age adjusted	1,312	43.8	0.2	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	43.7	0.2	32.2	34.5	36.7	39.3	44.3	48.5	50.7	52.0	53.7
Age:												
8–11 years	373	35.8	0.5	23.0	25.3	26.9	29.7	35.7	41.9	44.2	45.7	47.9
12–15 years	558	36.6	0.3	24.8	27.7	29.3	31.6	36.4	41.6	43.9	45.5	48.7
16–19 years	435	38.9	0.4	27.0	29.7	31.3	34.2	38.8	43.8	46.2	47.8	49.9
20–39 years	455	42.3	0.4	31.3	33.4	34.9	37.8	42.6	47.0	49.1	50.3	52.3
40–59 years	453	44.9	0.3	33.4	36.6	38.6	40.6	45.2	49.4	51.5	52.8	54.4
60–79 years	346	44.7	0.5	30.5	34.9	36.6	39.9	45.7	49.9	51.9	53.1	55.2
80 years and older	58	43.9	0.9	32.7	35.2	36.6	39.6	44.6	48.3	50.3	51.1	52.2

. . . Category not applicable.

† Standard error not calculated by SUDAAN.

Table 34. Right leg lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	9.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	9.5	0.0	6.8	7.3	7.7	8.3	9.4	10.5	11.3	11.8	12.8
Age:												
8–11 years	1,067	4.3	0.0	2.8	3.0	3.2	3.5	4.1	4.9	5.4	5.8	6.5
12–15 years	1,726	7.4	0.1	4.3	4.8	5.2	5.9	7.3	8.7	9.5	10.1	10.8
16–19 years	1,751	9.5	0.1	7.0	7.4	7.7	8.1	9.3	10.6	11.3	11.7	12.5
20–39 years	2,183	9.8	0.1	7.1	7.5	7.9	8.5	9.6	10.8	11.6	12.2	13.3
40–59 years	2,024	9.7	0.0	7.1	7.7	8.0	8.5	9.5	10.6	11.3	11.8	12.8
60–79 years	1,851	8.8	0.1	6.5	6.9	7.2	7.8	8.7	9.9	10.5	10.9	11.4
80 years and older	501	7.7	0.1	5.7	6.1	6.4	6.8	7.6	8.5	8.9	9.3	9.8
Mexican American:												
Age 20 years and older, age adjusted	1,488	8.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	8.7	0.1	6.4	6.9	7.2	7.6	8.6	9.6	10.1	10.6	11.4
Age:												
8–11 years	348	4.2	0.1	2.7	2.8	3.0	3.4	4.0	5.0	5.6	5.9	6.3
12–15 years	599	7.2	0.1	4.3	4.8	5.3	5.9	7.2	8.2	9.0	9.6	10.4
16–19 years	611	8.8	0.1	6.5	6.8	7.1	7.6	8.5	9.7	10.5	11.0	11.8
20–39 years	570	8.8	0.1	6.5	6.9	7.3	7.6	8.6	9.7	10.2	10.6	11.5
40–59 years	427	8.8	0.1	6.7	7.1	7.3	7.8	8.6	9.6	10.1	10.6	11.4
60–79 years	443	8.1	0.1	6.0	6.4	6.6	7.2	8.0	9.0	9.4	9.7	10.5
80 years and older	48	7.0	0.1	5.5	5.8	6.1	6.5	7.0	7.4	7.7	8.0	8.6
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	9.6	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	9.6	0.0	7.0	7.5	7.8	8.4	9.4	10.6	11.2	11.7	12.6
Age:												
8–11 years	280	4.1	0.1	2.7	3.0	3.2	3.5	4.1	4.7	5.1	5.4	5.9
12–15 years	438	7.3	0.1	4.3	4.8	5.2	5.8	7.2	8.6	9.4	9.9	10.4
16–19 years	447	9.5	0.1	7.1	7.4	7.7	8.2	9.3	10.7	11.3	11.6	12.2
20–39 years	934	9.9	0.1	7.3	7.7	8.1	8.7	9.7	10.9	11.6	12.1	13.1
40–59 years	1,013	9.8	0.1	7.3	7.9	8.2	8.7	9.6	10.7	11.3	11.8	12.7
60–79 years	975	8.9	0.1	6.5	7.0	7.3	7.9	8.8	9.9	10.5	10.9	11.4
80 years and older	398	7.7	0.1	5.7	6.2	6.5	6.9	7.6	8.4	8.9	9.2	9.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	10.3	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	10.4	0.1	7.3	7.9	8.3	9.0	10.2	11.6	12.6	13.2	14.2
Age:												
8–11 years	359	4.8	0.1	3.1	3.4	3.6	3.9	4.6	5.4	6.1	6.6	7.2
12–15 years	566	8.3	0.1	4.9	5.5	5.9	6.7	8.2	9.6	10.5	11.2	12.1
16–19 years	551	10.3	0.1	7.6	8.0	8.4	8.9	10.0	11.4	12.3	12.9	14.3
20–39 years	450	10.9	0.1	7.8	8.3	8.7	9.3	10.6	12.1	13.2	13.7	15.1
40–59 years	435	10.3	0.1	7.2	8.0	8.4	9.0	10.1	11.4	12.5	13.0	13.9
60–79 years	324	9.4	0.1	6.7	7.2	7.5	8.0	9.3	10.6	11.2	11.6	12.4
80 years and older	36	8.3	0.3	†	6.2	6.4	7.5	8.1	8.7	9.4	10.0	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	6.7	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	6.7	0.0	4.7	5.0	5.2	5.6	6.5	7.5	8.2	8.7	9.6
Age:												
8–11 years	1,082	4.2	0.1	2.5	2.7	2.9	3.3	4.1	5.0	5.5	6.0	6.4
12–15 years	1,780	6.2	0.0	4.3	4.7	4.9	5.3	6.0	6.9	7.5	7.9	8.6
16–19 years	1,513	6.6	0.0	4.7	4.9	5.2	5.6	6.4	7.4	8.0	8.5	9.4
20–39 years	2,043	6.9	0.0	4.9	5.3	5.5	5.8	6.7	7.7	8.4	9.0	9.9
40–59 years	2,049	6.9	0.1	4.7	5.1	5.4	5.8	6.6	7.7	8.5	9.0	9.8
60–79 years	1,846	6.3	0.0	4.5	4.8	5.0	5.3	6.1	7.0	7.5	8.0	8.8
80 years and older	594	5.6	0.1	4.1	4.3	4.5	4.8	5.4	6.1	6.6	7.0	7.8

See footnotes at end of table.

Table 34. Right leg lean soft tissue in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	6.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	6.2	0.0	4.4	4.7	4.9	5.3	6.1	7.0	7.5	7.9	8.6
Age:												
8–11 years	342	3.9	0.1	2.3	2.5	2.7	2.9	3.6	4.6	5.1	5.4	6.0
12–15 years	632	5.9	0.1	4.1	4.4	4.6	5.0	5.8	6.7	7.0	7.6	8.4
16–19 years	533	6.1	0.1	4.3	4.6	4.8	5.1	5.9	6.8	7.5	8.1	8.9
20–39 years	492	6.3	0.1	4.5	4.8	5.0	5.4	6.1	7.0	7.6	8.0	8.8
40–59 years	442	6.3	0.1	4.5	4.8	5.0	5.3	6.2	7.1	7.6	8.0	8.5
60–79 years	457	5.6	0.1	4.1	4.3	4.5	4.9	5.5	6.3	6.8	7.1	7.5
80 years and older	47	4.7	0.1	†	3.8	4.0	4.2	4.5	5.0	5.4	5.6	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	6.7	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	6.6	0.0	4.7	5.0	5.3	5.6	6.4	7.4	8.0	8.5	9.2
Age:												
8–11 years	281	4.1	0.1	2.5	2.7	3.0	3.2	4.0	4.9	5.3	5.7	6.3
12–15 years	448	6.0	0.1	4.3	4.6	4.8	5.1	5.9	6.7	7.2	7.5	8.1
16–19 years	409	6.6	0.1	4.8	5.1	5.3	5.6	6.4	7.2	7.9	8.3	8.9
20–39 years	907	6.8	0.0	5.0	5.3	5.5	5.8	6.7	7.6	8.2	8.6	9.5
40–59 years	964	6.8	0.1	4.8	5.1	5.4	5.8	6.6	7.6	8.4	8.8	9.6
60–79 years	922	6.2	0.0	4.6	4.8	5.0	5.3	6.1	6.9	7.4	7.8	8.6
80 years and older	457	5.6	0.1	4.1	4.3	4.5	4.8	5.4	6.1	6.6	6.9	7.7
Non-Hispanic black:												
20 years and older, age adjusted	1,312	7.9	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	8.0	0.0	5.5	5.9	6.2	6.7	7.7	9.0	9.8	10.4	11.3
Age:												
8–11 years	373	4.9	0.1	2.9	3.3	3.5	3.8	4.7	5.7	6.4	6.9	7.4
12–15 years	558	7.2	0.1	5.2	5.6	5.8	6.2	6.9	8.0	8.8	9.1	10.1
16–19 years	435	7.7	0.1	5.2	5.8	6.0	6.4	7.2	8.7	9.4	10.0	11.4
20–39 years	455	8.2	0.1	5.7	6.2	6.5	7.0	7.9	9.4	10.2	10.8	11.5
40–59 years	453	8.0	0.1	5.6	6.0	6.3	6.7	7.8	9.0	9.7	10.3	11.1
60–79 years	346	7.5	0.1	5.3	5.6	5.8	6.3	7.3	8.3	9.2	9.6	10.5
80 years and older	58	6.3	0.2	4.6	5.0	5.1	5.5	6.1	6.9	7.6	8.2	8.4

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Right leg lean soft tissue does not include bone mineral content.

Table 35. Right leg fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity: . . . . .				...	...	...	...	...	...	...	...	...
Age 20 years and older, age adjusted	6,559	10.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	10.1	0.0	7.2	7.8	8.2	8.8	9.9	11.1	11.9	12.4	13.4
Age:												
8–11 years	1,067	4.5	0.0	2.9	3.1	3.3	3.7	4.3	5.1	5.7	6.0	6.8
12–15 years	1,726	7.8	0.1	4.6	5.1	5.5	6.2	7.7	9.2	10.0	10.6	11.4
16–19 years	1,751	10.0	0.1	7.4	7.8	8.1	8.6	9.8	11.2	11.9	12.4	13.2
20–39 years	2,183	10.3	0.1	7.5	8.0	8.4	9.0	10.1	11.4	12.3	12.9	14.0
40–59 years	2,024	10.2	0.0	7.5	8.2	8.5	9.0	10.1	11.2	11.9	12.4	13.4
60–79 years	1,851	9.4	0.1	6.9	7.3	7.6	8.2	9.2	10.4	11.1	11.5	12.0
80 years and older	501	8.1	0.1	6.1	6.5	6.8	7.2	8.0	9.0	9.4	9.8	10.3
Mexican American:												
Age 20 years and older, age-adjusted.	1,488	9.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	9.2	0.1	6.8	7.3	7.7	8.1	9.0	10.1	10.7	11.1	12.0
Age:												
8–11 years	348	4.5	0.1	2.8	3.0	3.2	3.6	4.3	5.2	5.8	6.2	6.6
12–15 years	599	7.6	0.1	4.5	5.1	5.6	6.2	7.6	8.7	9.5	10.0	10.9
16–19 years	611	9.3	0.1	6.9	7.2	7.5	8.0	9.0	10.3	11.1	11.6	12.4
20–39 years	570	9.2	0.1	6.8	7.3	7.7	8.1	9.1	10.2	10.7	11.2	12.0
40–59 years	427	9.2	0.1	7.1	7.4	7.7	8.3	9.1	10.0	10.6	11.2	11.9
60–79 years	443	8.5	0.1	6.4	6.8	7.0	7.5	8.5	9.5	9.9	10.3	11.1
80 years and older	48	7.4	0.1	5.9	6.4	6.5	6.8	7.4	7.8	8.1	8.5	†
Non-Hispanic white:												
Age 20 years and older, age-adjusted.	3,320	10.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	10.1	0.0	7.4	7.9	8.3	8.9	10.0	11.1	11.8	12.3	13.2
Age:												
8–11 years	280	4.3	0.1	2.9	3.1	3.3	3.7	4.3	4.9	5.3	5.7	6.2
12–15 years	438	7.7	0.1	4.6	5.1	5.4	6.1	7.6	9.1	9.9	10.4	11.0
16–19 years	447	10.0	0.1	7.5	7.8	8.2	8.7	9.9	11.2	11.9	12.3	12.9
20–39 years	934	10.4	0.1	7.7	8.2	8.6	9.2	10.3	11.5	12.2	12.8	13.7
40–59 years	1,013	10.3	0.1	7.8	8.3	8.6	9.2	10.2	11.3	11.9	12.4	13.3
60–79 years	975	9.4	0.1	7.0	7.4	7.8	8.4	9.3	10.5	11.1	11.5	12.0
80 years and older	398	8.1	0.1	6.1	6.6	6.9	7.3	8.0	9.0	9.4	9.8	10.3
Non-Hispanic black:												
Age 20 years and older, age-adjusted.	1,245	10.8	0.1	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	11.0	0.1	7.8	8.4	8.9	9.5	10.7	12.2	13.3	14.0	14.9
Age:												
8–11 years	359	5.1	0.1	3.3	3.6	3.8	4.1	4.8	5.7	6.5	6.9	7.5
12–15 years	566	8.7	0.1	5.2	5.8	6.2	7.1	8.6	10.1	11.1	11.7	12.8
16–19 years	551	10.9	0.1	8.0	8.5	8.9	9.4	10.6	12.1	13.0	13.6	15.0
20–39 years	450	11.5	0.1	8.2	8.9	9.2	9.8	11.2	12.8	13.9	14.5	15.9
40–59 years	435	10.9	0.1	7.7	8.5	8.9	9.5	10.7	11.9	13.1	13.6	14.5
60–79 years	324	9.9	0.1	7.1	7.6	8.0	8.5	9.9	11.1	11.8	12.3	13.0
80 years and older	36	8.8	0.3	†	6.6	6.8	7.9	8.5	9.3	10.0	11.1	†
Female												
All race and ethnicity:												
Age 20 years and older, age-adjusted.	6,532	7.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	7.1	0.0	4.9	5.3	5.6	6.0	6.9	7.9	8.7	9.2	10.1
Age:												
8–11 years	1,082	4.5	0.1	2.6	2.9	3.1	3.5	4.3	5.3	5.8	6.4	6.8
12–15 years	1,780	6.5	0.0	4.6	5.0	5.2	5.6	6.4	7.3	7.9	8.3	9.1
16–19 years	1,513	7.0	0.1	5.0	5.3	5.5	5.9	6.8	7.8	8.4	8.9	9.8
20–39 years	2,043	7.3	0.0	5.2	5.6	5.8	6.2	7.1	8.1	8.9	9.4	10.4
40–59 years	2,049	7.3	0.1	5.1	5.4	5.7	6.1	7.0	8.1	8.9	9.4	10.3
60–79 years	1,846	6.6	0.0	4.8	5.1	5.3	5.6	6.4	7.4	8.0	8.4	9.2
80 years and older	594	5.9	0.1	4.3	4.5	4.8	5.1	5.7	6.4	6.9	7.3	8.1

See footnotes at end of table.

Table 35. Right leg fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age-adjusted.	1,438	6.4	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	6.6	0.0	4.7	5.0	5.2	5.6	6.4	7.3	7.9	8.3	8.9
Age:												
8–11 years	342	4.1	0.1	2.4	2.7	2.9	3.1	3.9	4.8	5.4	5.7	6.3
12–15 years	632	6.3	0.1	4.4	4.7	4.9	5.3	6.1	7.0	7.4	8.0	8.8
16–19 years	533	6.5	0.1	4.6	4.9	5.1	5.5	6.3	7.2	7.8	8.5	9.3
20–39 years	492	6.7	0.1	4.8	5.1	5.4	5.7	6.5	7.4	8.0	8.4	9.2
40–59 years	442	6.7	0.1	4.8	5.1	5.3	5.7	6.6	7.5	8.0	8.4	8.9
60–79 years	457	5.9	0.1	4.3	4.6	4.8	5.2	5.9	6.6	7.1	7.5	7.9
80 years and older	47	4.9	0.1	†	4.1	4.2	4.3	4.7	5.2	5.7	5.9	†
Non-Hispanic white:												
20 years and older, age-adjusted.	3,250	7.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	7.0	0.0	5.0	5.3	5.6	6.0	6.8	7.8	8.4	9.0	9.7
Age:												
8–11 years	281	4.4	0.1	2.6	2.9	3.1	3.4	4.2	5.2	5.6	6.0	6.7
12–15 years	448	6.4	0.1	4.6	4.9	5.1	5.4	6.2	7.1	7.6	7.9	8.6
16–19 years	409	7.0	0.1	5.1	5.4	5.7	5.9	6.8	7.7	8.3	8.7	9.4
20–39 years	907	7.2	0.0	5.3	5.7	5.9	6.2	7.0	8.0	8.6	9.1	9.9
40–59 years	964	7.2	0.1	5.1	5.5	5.7	6.2	7.0	8.0	8.8	9.3	10.1
60–79 years	922	6.6	0.0	4.8	5.1	5.3	5.6	6.4	7.3	7.8	8.2	9.0
80 years and older	457	5.9	0.1	4.3	4.5	4.8	5.1	5.7	6.4	6.8	7.3	8.0
Non-Hispanic black:												
20 years and older, age-adjusted.	1,312	8.3	0.1	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	8.4	0.0	5.8	6.3	6.6	7.1	8.1	9.5	10.3	10.9	11.9
Age:												
8–11 years	373	5.2	0.1	3.0	3.5	3.7	4.0	4.9	6.0	6.7	7.2	7.8
12–15 years	558	7.6	0.1	5.5	5.9	6.1	6.5	7.3	8.4	9.2	9.6	10.5
16–19 years	435	8.1	0.1	5.6	6.1	6.3	6.7	7.6	9.2	9.9	10.5	12.0
20–39 years	455	8.7	0.1	6.1	6.6	6.9	7.4	8.3	9.9	10.7	11.4	12.1
40–59 years	453	8.4	0.1	5.9	6.4	6.7	7.1	8.2	9.4	10.2	10.8	11.6
60–79 years	346	7.9	0.1	5.5	5.9	6.1	6.6	7.7	8.8	9.6	10.0	11.0
80 years and older	58	6.6	0.2	4.9	5.2	5.4	5.7	6.4	7.2	8.0	8.5	8.7

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Right leg fat-free mass includes bone mineral content.

Table 36. Head total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	5.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	5.1	0.0	4.3	4.4	4.6	4.7	5.1	5.4	5.7	5.8	6.1
Age:												
8–11 years	1,067	3.9	0.0	3.2	3.4	3.5	3.6	3.8	4.1	4.3	4.4	4.6
12–15 years	1,726	4.4	0.0	3.6	3.8	3.9	4.0	4.4	4.8	5.0	5.1	5.4
16–19 years	1,751	4.9	0.0	4.1	4.3	4.4	4.6	4.9	5.2	5.5	5.6	5.9
20–39 years	2,183	5.1	0.0	4.3	4.5	4.6	4.8	5.1	5.4	5.7	5.8	6.2
40–59 years	2,024	5.2	0.0	4.3	4.5	4.6	4.8	5.1	5.5	5.7	5.9	6.1
60–79 years	1,851	5.1	0.0	4.2	4.4	4.5	4.6	5.0	5.4	5.6	5.8	6.1
80 years and older	501	4.8	0.0	3.9	4.1	4.2	4.4	4.7	5.1	5.3	5.4	5.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	5.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	5.0	0.0	4.2	4.4	4.5	4.7	5.0	5.3	5.5	5.7	5.9
Age:												
8–11 years	348	3.9	0.0	3.3	3.4	3.5	3.6	3.9	4.2	4.4	4.5	4.7
12–15 years	599	4.4	0.0	3.5	3.8	3.9	4.1	4.4	4.8	5.0	5.2	5.4
16–19 years	611	4.9	0.0	4.1	4.2	4.3	4.5	4.8	5.2	5.4	5.5	5.8
20–39 years	570	5.0	0.0	4.3	4.4	4.5	4.7	5.0	5.3	5.5	5.7	5.8
40–59 years	427	5.0	0.0	4.2	4.4	4.5	4.6	5.0	5.3	5.5	5.7	5.9
60–79 years	443	5.0	0.0	4.1	4.3	4.5	4.6	5.0	5.3	5.5	5.7	6.1
80 years and older	48	4.7	0.1	4.1	4.3	4.3	4.5	4.6	4.9	5.0	5.2	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	5.1	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	5.1	0.0	4.3	4.4	4.6	4.7	5.1	5.4	5.7	5.8	6.1
Age:												
8–11 years	280	3.8	0.0	3.2	3.4	3.5	3.6	3.8	4.0	4.2	4.3	4.5
12–15 years	438	4.4	0.0	3.6	3.8	3.9	4.0	4.4	4.7	4.9	5.0	5.3
16–19 years	447	4.9	0.0	4.2	4.3	4.4	4.6	4.9	5.2	5.5	5.6	5.9
20–39 years	934	5.1	0.0	4.3	4.5	4.6	4.8	5.1	5.4	5.6	5.8	6.1
40–59 years	1,013	5.2	0.0	4.3	4.5	4.6	4.8	5.2	5.5	5.7	5.9	6.1
60–79 years	975	5.0	0.0	4.2	4.4	4.5	4.6	5.0	5.4	5.6	5.8	6.0
80 years and older	398	4.8	0.0	3.9	4.1	4.2	4.4	4.7	5.1	5.3	5.4	5.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	5.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	5.3	0.0	4.4	4.6	4.7	4.9	5.3	5.7	5.9	6.1	6.5
Age:												
8–11 years	359	4.0	0.0	3.3	3.4	3.5	3.7	4.0	4.2	4.4	4.6	4.8
12–15 years	566	4.6	0.0	3.7	3.9	4.0	4.2	4.6	5.0	5.2	5.4	5.6
16–19 years	551	5.1	0.0	4.3	4.4	4.5	4.7	5.0	5.4	5.7	5.8	6.2
20–39 years	450	5.4	0.0	4.5	4.7	4.8	4.9	5.3	5.7	6.0	6.2	6.6
40–59 years	435	5.3	0.0	4.3	4.5	4.7	4.9	5.3	5.7	5.9	6.1	6.4
60–79 years	324	5.3	0.0	4.3	4.5	4.6	4.9	5.3	5.7	5.9	6.1	6.5
80 years and older	36	4.9	0.1	†	4.2	4.4	4.5	4.9	5.3	5.5	5.5	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	4.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	4.3	0.0	3.6	3.8	3.9	4.0	4.3	4.6	4.8	4.9	5.2
Age:												
8–11 years	1,082	3.7	0.0	3.1	3.2	3.2	3.4	3.6	3.9	4.1	4.2	4.4
12–15 years	1,780	4.1	0.0	3.5	3.6	3.7	3.8	4.1	4.4	4.6	4.7	4.9
16–19 years	1,513	4.3	0.0	3.6	3.8	3.8	4.0	4.2	4.5	4.7	4.8	5.0
20–39 years	2,043	4.4	0.0	3.7	3.8	3.9	4.1	4.3	4.7	4.9	5.0	5.3
40–59 years	2,049	4.4	0.0	3.7	3.8	3.9	4.0	4.3	4.6	4.8	5.0	5.2
60–79 years	1,846	4.2	0.0	3.6	3.7	3.8	3.9	4.2	4.5	4.7	4.8	5.1
80 years and older	594	4.0	0.0	3.4	3.5	3.6	3.7	4.0	4.2	4.4	4.6	4.7

See footnotes at end of table.

Table 36. Head total mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	4.4	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	4.4	0.0	3.7	3.9	4.0	4.1	4.4	4.7	4.8	5.0	5.2
Age:												
8–11 years	342	3.7	0.0	3.0	3.2	3.2	3.4	3.6	3.9	4.1	4.2	4.5
12–15 years	632	4.2	0.0	3.6	3.7	3.7	3.9	4.1	4.4	4.6	4.7	5.0
16–19 years	533	4.3	0.0	3.7	3.8	3.9	4.0	4.2	4.5	4.7	4.9	5.1
20–39 years	492	4.4	0.0	3.8	3.9	4.0	4.1	4.4	4.7	4.9	5.0	5.3
40–59 years	442	4.4	0.0	3.7	3.9	4.0	4.1	4.4	4.6	4.8	5.0	5.2
60–79 years	457	4.3	0.0	3.5	3.7	3.8	4.0	4.3	4.6	4.8	4.9	5.1
80 years and older	47	3.8	0.1	†	3.4	3.4	3.5	3.8	4.1	4.2	4.3	4.4
Non-Hispanic white:												
20 years and older, age adjusted	3,250	4.3	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	4.3	0.0	3.6	3.7	3.8	4.0	4.2	4.5	4.7	4.8	5.0
Age:												
8–11 years	281	3.6	0.0	3.0	3.2	3.2	3.3	3.6	3.9	4.0	4.2	4.3
12–15 years	448	4.0	0.0	3.4	3.6	3.6	3.8	4.0	4.3	4.5	4.6	4.7
16–19 years	409	4.2	0.0	3.6	3.7	3.8	3.9	4.1	4.4	4.6	4.7	4.8
20–39 years	907	4.3	0.0	3.7	3.8	3.9	4.0	4.2	4.5	4.7	4.8	5.0
40–59 years	964	4.3	0.0	3.7	3.8	3.9	4.0	4.3	4.6	4.7	4.8	5.0
60–79 years	922	4.2	0.0	3.6	3.7	3.8	3.9	4.2	4.4	4.6	4.7	4.9
80 years and older	457	4.0	0.0	3.4	3.5	3.6	3.7	4.0	4.2	4.4	4.5	4.7
Non-Hispanic black:												
20 years and older, age adjusted	1,312	4.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	4.8	0.0	3.9	4.1	4.2	4.4	4.7	5.1	5.3	5.5	5.8
Age:												
8–11 years	373	3.8	0.0	3.1	3.3	3.3	3.5	3.8	4.1	4.3	4.4	4.8
12–15 years	558	4.4	0.0	3.7	3.8	3.9	4.0	4.4	4.7	4.9	5.0	5.2
16–19 years	435	4.6	0.0	3.9	4.0	4.1	4.2	4.5	4.9	5.1	5.3	5.6
20–39 years	455	4.8	0.0	4.0	4.1	4.2	4.4	4.8	5.1	5.3	5.6	5.8
40–59 years	453	4.8	0.0	4.0	4.1	4.3	4.4	4.7	5.1	5.3	5.5	5.8
60–79 years	346	4.7	0.0	3.9	4.0	4.2	4.3	4.6	5.0	5.2	5.4	5.8
80 years and older	58	4.3	0.1	3.5	3.7	3.8	3.9	4.3	4.6	4.8	5.1	†

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 37. Head fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	1.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
Age:												
8–11 years	1,067	0.9	0.0	0.7	0.8	0.8	0.8	0.9	1.0	1.0	1.1	1.1
12–15 years	1,726	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3
16–19 years	1,751	1.1	0.0	0.9	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4
20–39 years	2,183	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
40–59 years	2,024	1.2	0.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5
60–79 years	1,851	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
80 years and older	501	1.1	0.0	0.9	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3
Mexican American:												
Age 20 years and older, age adjusted	1,488	1.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4
Age:												
8–11 years	348	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.1	1.1	1.2
12–15 years	599	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3
16–19 years	611	1.1	0.0	0.9	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4
20–39 years	570	1.2	0.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4
40–59 years	427	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4
60–79 years	443	1.2	0.0	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
80 years and older	48	1.1	0.0	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	1.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
Age:												
8–11 years	280	0.9	0.0	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.1
12–15 years	438	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.2
16–19 years	447	1.1	0.0	0.9	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4
20–39 years	934	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4
40–59 years	1,013	1.2	0.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5
60–79 years	975	1.2	0.0	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5
80 years and older	398	1.1	0.0	0.9	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	1.2	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	1.2	0.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5
Age:												
8–11 years	359	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.1	1.2
12–15 years	566	1.1	0.0	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.3
16–19 years	551	1.2	0.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3	1.5
20–39 years	450	1.2	0.0	1.0	1.1	1.1	1.1	1.2	1.3	1.4	1.4	1.5
40–59 years	435	1.2	0.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5
60–79 years	324	1.2	0.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.6
80 years and older	36	1.1	0.0	†	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.1
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	1.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2
Age:												
8–11 years	1,082	0.9	0.0	0.7	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.1
12–15 years	1,780	0.9	0.0	0.8	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.1
16–19 years	1,513	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2
20–39 years	2,043	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.2
40–59 years	2,049	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
60–79 years	1,846	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2
80 years and older	594	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.1	1.1

See footnotes at end of table.

Table 37. Head fat mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	1.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.3
Age:												
8–11 years	342	0.9	0.0	0.7	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.1
12–15 years	632	1.0	0.0	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2
16–19 years	533	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.2
20–39 years	492	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.2
40–59 years	442	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.3
60–79 years	457	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
80 years and older	47	0.9	0.0	†	0.8	0.8	0.8	0.9	0.9	1.0	1.0	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	1.0	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2
Age:												
8–11 years	281	0.8	0.0	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0
12–15 years	448	0.9	0.0	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1
16–19 years	409	0.9	0.0	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.1
20–39 years	907	1.0	0.0	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2
40–59 years	964	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2
60–79 years	922	1.0	0.0	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2
80 years and older	457	0.9	0.0	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.1	1.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	1.1	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	1.1	0.0	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.4
Age:												
8–11 years	373	0.9	0.0	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1
12–15 years	558	1.0	0.0	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.2
16–19 years	435	1.1	0.0	0.9	0.9	0.9	0.9	1.0	1.1	1.2	1.3	1.3
20–39 years	455	1.1	0.0	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.4
40–59 years	453	1.1	0.0	0.9	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.4
60–79 years	346	1.1	0.0	0.9	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.4
80 years and older	58	1.0	0.0	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.2	†

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 38. Head percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Percent												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	23.9	0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
Age 20 years and older, crude	6,559	23.9	0.0	23.0	23.2	23.3	23.4	23.7	24.1	24.3	24.5	24.9
Age:												
8–11 years	1,067	24.1	0.0	23.5	23.6	23.7	23.8	23.9	24.2	24.3	24.5	25.0
12–15 years	1,726	24.0	0.0	23.4	23.5	23.6	23.7	23.9	24.1	24.3	24.5	24.8
16–19 years	1,751	23.7	0.0	23.1	23.2	23.3	23.4	23.6	23.9	24.0	24.2	24.4
20–39 years	2,183	23.7	0.0	23.0	23.1	23.2	23.4	23.6	23.9	24.2	24.3	24.6
40–59 years	2,024	23.9	0.0	23.1	23.2	23.3	23.5	23.8	24.2	24.4	24.6	24.9
60–79 years	1,851	24.0	0.0	23.1	23.3	23.4	23.6	23.9	24.3	24.6	24.8	25.1
80 years and older	501	23.9	0.0	23.0	23.2	23.3	23.5	23.8	24.1	24.4	24.6	24.9
Mexican American:												
Age 20 years and older, age adjusted	1,488	24.0	0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
Age 20 years and older, crude	1,488	24.0	0.0	23.2	23.3	23.4	23.6	23.8	24.2	24.5	24.7	25.0
Age:												
8–11 years	348	24.3	0.0	23.6	23.7	23.7	23.8	24.0	24.4	24.7	25.0	25.6
12–15 years	599	24.1	0.0	23.5	23.6	23.7	23.8	24.0	24.3	24.5	24.7	25.0
16–19 years	611	23.8	0.0	23.2	23.3	23.4	23.5	23.7	24.0	24.2	24.4	24.7
20–39 years	570	23.9	0.0	23.1	23.3	23.4	23.5	23.8	24.1	24.3	24.5	24.8
40–59 years	427	24.1	0.0	23.2	23.4	23.5	23.6	24.0	24.4	24.7	24.9	25.1
60–79 years	443	24.1	0.0	23.2	23.4	23.5	23.6	24.0	24.4	24.7	24.8	25.2
80 years and older	48	24.0	0.1	†	23.1	23.3	23.5	23.9	24.3	24.4	24.6	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	23.9	0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
Age 20 years and older, crude	3,320	23.9	0.0	23.1	23.2	23.3	23.5	23.7	24.1	24.4	24.6	24.9
Age:												
8–11 years	280	24.1	0.0	23.6	23.7	23.7	23.8	23.9	24.2	24.3	24.4	24.9
12–15 years	438	24.0	0.0	23.4	23.5	23.6	23.7	23.9	24.1	24.3	24.5	24.7
16–19 years	447	23.7	0.0	23.1	23.2	23.3	23.4	23.6	23.9	24.1	24.2	24.4
20–39 years	934	23.7	0.0	23.0	23.1	23.2	23.3	23.6	23.9	24.1	24.3	24.6
40–59 years	1,013	23.9	0.0	23.1	23.2	23.3	23.5	23.8	24.2	24.4	24.6	24.9
60–79 years	975	24.1	0.0	23.2	23.3	23.4	23.6	24.0	24.4	24.6	24.9	25.2
80 years and older	398	23.9	0.0	23.0	23.2	23.3	23.5	23.8	24.1	24.4	24.7	24.9
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	23.7	0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
Age 20 years and older, crude	1,245	23.6	0.0	22.8	23.0	23.1	23.2	23.5	23.9	24.1	24.3	24.6
Age:												
8–11 years	359	24.0	0.0	23.5	23.5	23.6	23.7	23.8	24.1	24.2	24.4	24.8
12–15 years	566	23.9	0.0	23.3	23.4	23.5	23.6	23.8	24.1	24.2	24.4	24.8
16–19 years	551	23.6	0.0	23.1	23.2	23.3	23.3	23.5	23.8	23.9	24.0	24.4
20–39 years	450	23.5	0.0	22.8	23.0	23.0	23.2	23.5	23.7	23.9	24.1	24.3
40–59 years	435	23.7	0.0	22.7	23.0	23.1	23.3	23.6	24.0	24.2	24.3	24.6
60–79 years	324	23.8	0.0	22.8	23.1	23.2	23.4	23.7	24.1	24.4	24.6	24.8
80 years and older	36	23.8	0.1	†	23.0	23.1	23.3	23.7	24.1	24.3	24.4	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	23.6	0.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
Age 20 years and older, crude	6,532	23.6	0.0	22.6	22.7	22.9	23.0	23.4	23.9	24.2	24.4	24.8
Age:												
8–11 years	1,082	24.2	0.0	23.6	23.7	23.7	23.8	24.1	24.3	24.6	24.8	25.1
12–15 years	1,780	23.9	0.0	23.1	23.3	23.4	23.5	23.8	24.0	24.2	24.4	24.7
16–19 years	1,513	23.6	0.0	22.9	23.0	23.1	23.2	23.4	23.7	23.9	24.1	24.5
20–39 years	2,043	23.4	0.0	22.6	22.7	22.8	23.0	23.3	23.7	23.9	24.2	24.5
40–59 years	2,049	23.6	0.0	22.5	22.7	22.8	23.0	23.4	23.8	24.2	24.5	24.8
60–79 years	1,846	23.9	0.0	22.8	22.9	23.1	23.3	23.7	24.2	24.4	24.7	25.1
80 years and older	594	23.8	0.0	22.8	23.0	23.2	23.3	23.7	24.2	24.4	24.6	24.8

See footnotes at end of table.

Table 38. Head percentage fat for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Percent												
Mexican American:												
20 years and older, age adjusted	1,438	23.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	23.7	0.0	22.7	22.8	23.0	23.2	23.6	24.0	24.3	24.6	25.1
Age:												
8–11 years	342	24.2	0.0	23.6	23.7	23.8	23.9	24.1	24.4	24.6	24.8	25.2
12–15 years	632	23.9	0.0	23.1	23.3	23.4	23.6	23.8	24.1	24.3	24.5	24.8
16–19 years	533	23.7	0.0	22.9	23.0	23.1	23.3	23.5	23.9	24.1	24.3	24.6
20–39 years	492	23.6	0.0	22.7	22.8	22.9	23.1	23.5	23.8	24.1	24.3	24.7
40–59 years	442	23.8	0.0	22.7	22.8	23.0	23.2	23.6	24.2	24.5	24.8	25.3
60–79 years	457	24.1	0.0	22.9	23.1	23.3	23.5	24.0	24.5	24.9	25.3	25.6
80 years and older	47	24.0	0.2	†	23.1	23.3	23.5	23.9	24.3	24.4	24.7	25.1
Non-Hispanic white:												
20 years and older, age adjusted	3,250	23.5	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	23.6	0.0	22.6	22.7	22.9	23.0	23.4	23.9	24.1	24.4	24.7
Age:												
8–11 years	281	24.2	0.0	23.6	23.7	23.8	23.9	24.1	24.3	24.6	24.8	25.1
12–15 years	448	23.9	0.0	23.2	23.3	23.4	23.5	23.8	24.0	24.2	24.4	24.6
16–19 years	409	23.6	0.0	22.9	23.0	23.1	23.2	23.5	23.7	23.9	24.1	24.3
20–39 years	907	23.4	0.0	22.6	22.7	22.8	23.0	23.3	23.6	23.9	24.1	24.4
40–59 years	964	23.5	0.0	22.5	22.7	22.8	23.0	23.3	23.8	24.1	24.3	24.7
60–79 years	922	23.8	0.0	22.7	22.9	23.1	23.3	23.7	24.1	24.4	24.6	25.0
80 years and older	457	23.9	0.0	22.9	23.0	23.2	23.4	23.7	24.1	24.4	24.6	24.9
Non-Hispanic black:												
20 years and older, age adjusted	1,312	23.6	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	23.6	0.0	22.5	22.7	22.8	23.0	23.4	24.0	24.3	24.6	25.1
Age:												
8–11 years	373	24.2	0.0	23.5	23.6	23.7	23.8	24.0	24.3	24.6	24.7	25.1
12–15 years	558	23.8	0.0	23.0	23.1	23.3	23.4	23.6	23.9	24.1	24.3	24.6
16–19 years	435	23.6	0.0	22.7	22.8	22.9	23.1	23.3	23.8	24.1	24.4	25.0
20–39 years	455	23.5	0.0	22.5	22.6	22.8	22.9	23.3	23.7	24.2	24.4	25.0
40–59 years	453	23.7	0.0	22.5	22.7	22.8	23.0	23.5	24.1	24.5	24.7	25.2
60–79 years	346	23.9	0.0	22.7	22.9	23.0	23.2	23.8	24.3	24.5	24.8	25.2
80 years and older	58	23.6	0.1	22.6	22.8	22.9	23.1	23.6	24.0	24.3	24.4	24.7

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

Table 39. Head lean soft tissue in kilograms for persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.4	0.0	2.8	2.9	3.0	3.1	3.4	3.6	3.8	3.9	4.0
Age:												
8–11 years	1,067	2.6	0.0	2.2	2.3	2.3	2.4	2.6	2.8	2.9	3.0	3.1
12–15 years	1,726	3.0	0.0	2.4	2.5	2.6	2.7	3.0	3.2	3.3	3.5	3.6
16–19 years	1,751	3.3	0.0	2.7	2.8	2.9	3.0	3.2	3.5	3.6	3.8	4.0
20–39 years	2,183	3.4	0.0	2.9	3.0	3.0	3.1	3.4	3.6	3.8	3.9	4.1
40–59 years	2,024	3.4	0.0	2.8	3.0	3.0	3.2	3.4	3.6	3.8	3.9	4.0
60–79 years	1,851	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.6	3.7	3.8	4.0
80 years and older	501	3.1	0.0	2.6	2.7	2.8	2.9	3.1	3.4	3.5	3.6	3.7
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	3.9
Age:												
8–11 years	348	2.7	0.0	2.2	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.2
12–15 years	599	3.0	0.0	2.4	2.5	2.6	2.7	3.0	3.2	3.4	3.5	3.6
16–19 years	611	3.2	0.0	2.7	2.8	2.9	3.0	3.2	3.4	3.6	3.7	3.9
20–39 years	570	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	3.9
40–59 years	427	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.6	3.8	3.9
60–79 years	443	3.3	0.0	2.7	2.9	3.0	3.1	3.3	3.5	3.7	3.8	4.1
80 years and older	48	3.1	0.1	2.7	2.8	2.8	3.0	3.1	3.2	3.3	3.5	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.4	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	3.4	0.0	2.8	2.9	3.0	3.1	3.4	3.6	3.7	3.8	4.0
Age:												
8–11 years	280	2.6	0.0	2.2	2.3	2.3	2.4	2.6	2.7	2.8	2.9	3.0
12–15 years	438	3.0	0.0	2.4	2.5	2.6	2.7	3.0	3.2	3.3	3.4	3.6
16–19 years	447	3.3	0.0	2.8	2.9	2.9	3.0	3.2	3.5	3.6	3.8	3.9
20–39 years	934	3.4	0.0	2.8	2.9	3.0	3.1	3.4	3.6	3.7	3.8	4.1
40–59 years	1,013	3.4	0.0	2.8	3.0	3.1	3.2	3.4	3.6	3.8	3.9	4.0
60–79 years	975	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.6	3.7	3.8	4.0
80 years and older	398	3.1	0.0	2.6	2.7	2.8	2.9	3.1	3.4	3.5	3.6	3.7
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	3.5	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	3.5	0.0	2.9	3.0	3.1	3.2	3.5	3.7	3.9	4.0	4.3
Age:												
8–11 years	359	2.7	0.0	2.2	2.3	2.4	2.5	2.7	2.8	3.0	3.1	3.3
12–15 years	566	3.1	0.0	2.5	2.6	2.7	2.8	3.1	3.3	3.5	3.6	3.8
16–19 years	551	3.4	0.0	2.8	2.9	3.0	3.1	3.3	3.6	3.8	3.9	4.2
20–39 years	450	3.5	0.0	3.0	3.1	3.1	3.2	3.5	3.8	3.9	4.1	4.4
40–59 years	435	3.5	0.0	2.9	3.0	3.1	3.2	3.5	3.7	3.9	4.0	4.2
60–79 years	324	3.5	0.0	2.8	3.0	3.1	3.2	3.5	3.7	3.9	4.0	4.3
80 years and older	36	3.2	0.1	†	2.7	2.9	3.0	3.2	3.5	3.6	3.6	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	2.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	2.8	0.0	2.4	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.4
Age:												
8–11 years	1,082	2.5	0.0	2.1	2.1	2.2	2.3	2.5	2.7	2.8	2.9	3.0
12–15 years	1,780	2.7	0.0	2.3	2.4	2.4	2.5	2.7	2.9	3.0	3.1	3.2
16–19 years	1,513	2.8	0.0	2.4	2.5	2.5	2.6	2.8	3.0	3.1	3.2	3.3
20–39 years	2,043	2.8	0.0	2.4	2.5	2.5	2.6	2.8	3.0	3.1	3.2	3.4
40–59 years	2,049	2.8	0.0	2.4	2.5	2.5	2.6	2.8	3.0	3.1	3.2	3.3
60–79 years	1,846	2.8	0.0	2.3	2.4	2.5	2.6	2.7	2.9	3.1	3.1	3.3
80 years and older	594	2.6	0.0	2.2	2.3	2.3	2.4	2.6	2.8	2.9	3.0	3.1

See footnotes at end of table.

Table 39. Head lean soft tissue in kilograms for persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	2.8	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	2.8	0.0	2.4	2.5	2.6	2.6	2.8	3.0	3.1	3.2	3.4
Age:												
8–11 years	342	2.5	0.0	2.0	2.1	2.2	2.3	2.4	2.7	2.8	2.9	3.0
12–15 years	632	2.8	0.0	2.4	2.4	2.5	2.6	2.7	2.9	3.1	3.2	3.3
16–19 years	533	2.8	0.0	2.4	2.5	2.6	2.6	2.8	3.0	3.1	3.2	3.4
20–39 years	492	2.9	0.0	2.4	2.5	2.6	2.7	2.8	3.0	3.2	3.3	3.4
40–59 years	442	2.8	0.0	2.4	2.5	2.6	2.6	2.8	3.0	3.1	3.2	3.4
60–79 years	457	2.8	0.0	2.3	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.4
80 years and older	47	2.5	0.1	†	2.2	2.3	2.4	2.5	2.7	2.8	2.8	2.9
Non-Hispanic white:												
20 years and older, age adjusted	3,250	2.8	0.0	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2
20 years and older, crude	3,250	2.8	0.0	...	...	...	...	...	...	...	...	...
Age:												
8–11 years	281	2.5	0.0	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9
12–15 years	448	2.7	0.0	2.3	2.4	2.4	2.5	2.7	2.9	3.0	3.0	3.1
16–19 years	409	2.7	0.0	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2
20–39 years	907	2.8	0.0	2.4	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3
40–59 years	964	2.8	0.0	2.4	2.4	2.5	2.6	2.7	2.9	3.1	3.1	3.2
60–79 years	922	2.7	0.0	2.3	2.4	2.5	2.5	2.7	2.9	3.0	3.1	3.2
80 years and older	457	2.6	0.0	2.2	2.3	2.3	2.4	2.6	2.8	2.9	3.0	3.1
Non-Hispanic black:												
20 years and older, age adjusted	1,312	3.1	0.0	2.6	2.6	2.7	2.8	3.0	3.3	3.4	3.5	3.8
20 years and older, crude	1,312	3.1	0.0	...	...	...	...	...	...	...	...	...
Age:												
8–11 years	373	2.6	0.0	2.1	2.2	2.2	2.3	2.6	2.8	2.9	3.0	3.2
12–15 years	558	2.9	0.0	2.4	2.5	2.6	2.7	2.9	3.1	3.2	3.3	3.5
16–19 years	435	3.0	0.0	2.5	2.6	2.7	2.8	3.0	3.2	3.4	3.5	3.7
20–39 years	455	3.1	0.0	2.6	2.7	2.7	2.8	3.1	3.3	3.4	3.6	3.8
40–59 years	453	3.1	0.0	2.6	2.7	2.7	2.9	3.0	3.3	3.4	3.5	3.7
60–79 years	346	3.1	0.0	2.6	2.6	2.7	2.8	3.0	3.2	3.4	3.5	3.8
80 years and older	58	2.8	0.1	2.3	2.4	2.5	2.6	2.8	3.0	3.1	3.4	†

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Head lean soft tissue mass does not include bone mineral content.

Table 40. Head fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Male												
Kilograms												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,559	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,559	3.9	0.0	3.2	3.4	3.5	3.6	3.9	4.1	4.3	4.4	4.6
Age:												
8–11 years	1,067	2.9	0.0	2.4	2.6	2.6	2.7	2.9	3.1	3.2	3.3	3.5
12–15 years	1,726	3.4	0.0	2.7	2.9	2.9	3.1	3.3	3.6	3.8	3.9	4.1
16–19 years	1,751	3.7	0.0	3.2	3.2	3.3	3.5	3.7	4.0	4.1	4.3	4.5
20–39 years	2,183	3.9	0.0	3.3	3.4	3.5	3.6	3.9	4.1	4.3	4.4	4.7
40–59 years	2,024	3.9	0.0	3.3	3.4	3.5	3.6	3.9	4.2	4.3	4.4	4.6
60–79 years	1,851	3.8	0.0	3.2	3.3	3.4	3.5	3.8	4.1	4.3	4.4	4.6
80 years and older	501	3.6	0.0	3.0	3.1	3.2	3.3	3.6	3.9	4.0	4.1	4.3
Mexican American:												
Age 20 years and older, age adjusted	1,488	3.8	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,488	3.8	0.0	3.2	3.3	3.4	3.5	3.8	4.0	4.2	4.3	4.4
Age:												
8–11 years	348	3.0	0.0	2.5	2.6	2.6	2.7	2.9	3.1	3.3	3.4	3.5
12–15 years	599	3.3	0.0	2.7	2.8	2.9	3.1	3.3	3.6	3.8	3.9	4.0
16–19 years	611	3.7	0.0	3.1	3.2	3.3	3.4	3.6	3.9	4.1	4.2	4.4
20–39 years	570	3.8	0.0	3.2	3.4	3.4	3.5	3.8	4.0	4.2	4.3	4.4
40–59 years	427	3.8	0.0	3.2	3.3	3.4	3.5	3.8	4.0	4.2	4.3	4.5
60–79 years	443	3.8	0.0	3.1	3.3	3.4	3.5	3.8	4.0	4.2	4.3	4.5
80 years and older	48	3.6	0.1	3.1	3.2	3.3	3.4	3.5	3.7	3.8	4.0	†
Non-Hispanic white:												
Age 20 years and older, age adjusted	3,320	3.9	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	3,320	3.9	0.0	3.2	3.4	3.5	3.6	3.9	4.1	4.3	4.4	4.6
Age:												
8–11 years	280	2.9	0.0	2.4	2.5	2.6	2.7	2.9	3.0	3.2	3.3	3.4
12–15 years	438	3.3	0.0	2.7	2.8	2.9	3.1	3.3	3.6	3.7	3.8	4.0
16–19 years	447	3.7	0.0	3.2	3.2	3.3	3.5	3.7	4.0	4.1	4.3	4.5
20–39 years	934	3.9	0.0	3.3	3.4	3.5	3.6	3.9	4.1	4.3	4.4	4.6
40–59 years	1,013	3.9	0.0	3.3	3.4	3.5	3.6	3.9	4.2	4.3	4.4	4.6
60–79 years	975	3.8	0.0	3.2	3.3	3.4	3.5	3.8	4.1	4.2	4.4	4.5
80 years and older	398	3.6	0.0	3.0	3.1	3.2	3.3	3.6	3.9	4.0	4.1	4.3
Non-Hispanic black:												
Age 20 years and older, age adjusted	1,245	4.0	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	1,245	4.1	0.0	3.4	3.5	3.6	3.7	4.0	4.3	4.5	4.7	4.9
Age:												
8–11 years	359	3.0	0.0	2.5	2.6	2.7	2.8	3.0	3.2	3.4	3.5	3.6
12–15 years	566	3.5	0.0	2.8	3.0	3.0	3.2	3.4	3.8	3.9	4.1	4.3
16–19 years	551	3.9	0.0	3.2	3.3	3.4	3.6	3.8	4.1	4.3	4.4	4.7
20–39 years	450	4.1	0.0	3.5	3.6	3.7	3.7	4.0	4.3	4.5	4.7	5.0
40–59 years	435	4.0	0.0	3.3	3.5	3.6	3.7	4.0	4.3	4.5	4.6	4.8
60–79 years	324	4.0	0.0	3.3	3.4	3.5	3.7	4.0	4.3	4.5	4.7	4.9
80 years and older	36	3.7	0.1	†	3.2	3.3	3.4	3.8	4.0	4.1	4.2	†
Female												
All race and ethnicity:												
Age 20 years and older, age adjusted	6,532	3.3	0.0	...	...	...	...	...	...	...	...	...
Age 20 years and older, crude	6,532	3.3	0.0	2.8	2.9	2.9	3.1	3.3	3.5	3.6	3.7	3.9
Age:												
8–11 years	1,082	2.8	0.0	2.3	2.4	2.4	2.5	2.7	3.0	3.1	3.2	3.3
12–15 years	1,780	3.1	0.0	2.6	2.7	2.8	2.9	3.1	3.3	3.5	3.5	3.7
16–19 years	1,513	3.2	0.0	2.8	2.9	2.9	3.0	3.2	3.4	3.6	3.7	3.8
20–39 years	2,043	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	4.0
40–59 years	2,049	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	3.9
60–79 years	1,846	3.2	0.0	2.7	2.8	2.9	3.0	3.2	3.4	3.6	3.7	3.8
80 years and older	594	3.0	0.0	2.5	2.6	2.7	2.8	3.0	3.2	3.4	3.5	3.6

See footnotes at end of table.

Table 40. Head fat-free mass in kilograms for examined persons 8 years of age and older, by sex, race and ethnicity, and age: United States, 1999–2004—Con.

Sex, race and ethnicity, and age	Sample size	Mean	Standard error of the mean	Percentile								
				5th	10th	15th	25th	50th	75th	85th	90th	95th
Female—Con.												
Kilograms												
Mexican American:												
20 years and older, age adjusted	1,438	3.3	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,438	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	3.9
Age:												
8–11 years	342	2.8	0.0	2.3	2.4	2.5	2.5	2.7	3.0	3.1	3.2	3.3
12–15 years	632	3.2	0.0	2.7	2.8	2.8	2.9	3.1	3.3	3.5	3.6	3.8
16–19 years	533	3.3	0.0	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.7	3.9
20–39 years	492	3.4	0.0	2.9	3.0	3.0	3.1	3.3	3.6	3.7	3.8	4.0
40–59 years	442	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.7	3.9
60–79 years	457	3.2	0.0	2.7	2.8	2.9	3.0	3.2	3.4	3.6	3.7	3.9
80 years and older	47	2.9	0.1	†	2.6	2.6	2.7	2.9	3.1	3.2	3.2	†
Non-Hispanic white:												
20 years and older, age adjusted	3,250	3.2	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	3,250	3.2	0.0	2.8	2.9	2.9	3.0	3.2	3.4	3.6	3.6	3.8
Age:												
8–11 years	281	2.7	0.0	2.3	2.4	2.4	2.5	2.7	2.9	3.0	3.1	3.2
12–15 years	448	3.1	0.0	2.6	2.7	2.8	2.8	3.0	3.2	3.4	3.5	3.6
16–19 years	409	3.2	0.0	2.7	2.8	2.9	3.0	3.2	3.4	3.5	3.6	3.7
20–39 years	907	3.3	0.0	2.8	2.9	3.0	3.0	3.2	3.5	3.6	3.7	3.8
40–59 years	964	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.6	3.7	3.8
60–79 years	922	3.2	0.0	2.7	2.8	2.9	3.0	3.2	3.4	3.5	3.6	3.7
80 years and older	457	3.0	0.0	2.5	2.6	2.7	2.8	3.0	3.2	3.3	3.4	3.5
Non-Hispanic black:												
20 years and older, age adjusted	1,312	3.6	0.0	...	...	...	...	...	...	...	...	...
20 years and older, crude	1,312	3.6	0.0	3.0	3.1	3.2	3.3	3.6	3.9	4.0	4.1	4.4
Age:												
8–11 years	373	2.9	0.0	2.4	2.5	2.5	2.6	2.9	3.1	3.2	3.3	3.6
12–15 years	558	3.3	0.0	2.8	2.9	3.0	3.1	3.3	3.5	3.7	3.8	4.0
16–19 years	435	3.5	0.0	3.0	3.1	3.1	3.2	3.5	3.7	3.9	4.0	4.3
20–39 years	455	3.7	0.0	3.0	3.2	3.2	3.4	3.6	3.9	4.1	4.2	4.4
40–59 years	453	3.6	0.0	3.0	3.2	3.2	3.4	3.6	3.9	4.0	4.1	4.4
60–79 years	346	3.6	0.0	3.0	3.1	3.2	3.3	3.5	3.8	3.9	4.1	4.3
80 years and older	58	3.3	0.1	2.6	2.8	2.9	3.0	3.3	3.5	3.7	3.9	†

0.0 Quantity more than zero but less than 0.05.

... Category not applicable.

† Standard error not calculated by SUDAAN.

NOTE: Head fat-free mass includes bone mineral content.

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