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Nutrition and Health Characteristics of Low-Income Populations

Volume I, Food Stamp Program Participants and Nonparticipants

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Nutrition and Health Characteristics of Low-Income Populations

Volume I, Food Stamp Program Participants and Nonparticipants

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Abstract

Data from the Third National Health and Nutrition Examination Survey (NHANES-III), conducted in 1988-94, were used to compare the nutrition and health characteristics of participants and nonparticipants in the Food Stamp Program (FSP). FSP participants were compared with two groups of nonparticipants—those who were income-eligible for the FSP (income at or below 130 percent of poverty) and those with higher incomes (income above 130 percent of poverty). This research was designed to establish a baseline from which to monitor the nutritional and health characteristics of FSP participants and nonparticipants over time.

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Executive Summary

This report describes the nutrition and health characteristics of participants and nonparticipants in the Food Stamp Program (FSP), using data from the Third National Health and Nutrition Examination Survey (NHANES-III).[1] The NHANES survey is the primary source of information used in monitoring the Nation's nutrition and health status. NHANES-III was completed between 1988 and 1994 and provides data for a large nationally representative sample of individuals.[2]

FSP participants are compared with two groups of nonparticipants: low-income individuals who were income-eligible for the FSP (household income at or below 130 percent of poverty) and higher-income individuals who were not income-eligible for the FSP (household income above 130 percent of poverty). These comparisons provide useful insights into policy-relevant questions, for example: are low-income individuals with the greatest nutritional and health needs receiving FSP services? Comparisons between FSP participants and higher-income nonparticipants are also of interest. These comparisons provide information on nutrition- and health-related disparities between FSP participants and individuals who are not constrained by low incomes. Both sets of comparisons also provide information on whether FSP participants do as well as other groups with respect to critical measures of nutrition and health status.

It should be noted that *this research was not designed to assess program impacts or in any way attribute differences observed between FSP participants and either group of nonparticipants to an effect of the program.* Rather, it was designed to establish a baseline from which to monitor the nutrition and health characteristics of FSP participants and nonparticipants over time and to generate questions and hypotheses for future research.

A broad array of measures is used to describe the nutrition and health characteristics of FSP participants and nonparticipants. These include dietary intake, body weight, selected nutritional biochemistries, bone density, health-related behaviors, measures of health status, conditions, and risks, and access to health care. All population estimates have been age-adjusted (based on year 2000 census data) to eliminate between-group differences that were due solely to differences in the age distribution of the groups.

Dietary Intake

Dietary intake was assessed using data from a single 24-hour recall. In addition to energy intake, the analysis examined intakes of nine key nutrients and dietary components: vitamin C, iron, zinc, calcium, total fat, saturated fat, cholesterol, sodium, and fiber. Estimates of usual intake were generated using the personal computer version of the Software for Intake Distribution Estimation.[3] Healthy Eating Index (HEI) scores (Kennedy et al., 1995) were also examined.

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[1] Similar reports have been prepared for participants and nonparticipants in the WIC program (Cole and Fox, 2004a), for school-age children (Fox and Cole, 2004), and for older adults (Cole and Fox, 2004b).

[2] Beginning in 1999, NHANES became a continuing survey, without breaks between data collection cycles. Similar sampling and data collection procedures are used, although at least two years of data are necessary to have adequate sample sizes for subgroup analyses (Flegal et al., 2002). Data for the first two continuous years of the ongoing NHANES (1999-2000) have been released since the time the tabulations presented in this report were prepared. Data for subsequent years are expected in mid-2005.

[3] Because NHANES-III included a very small sample of second dietary recalls, which are needed to estimate intraindividual variation in intake, variance components were derived from the Continuing Survey of Food Intake of Individuals (CSFII), 1994-96 (see appendix C).

- **Meal consumption.** Overall, 35 percent of individuals 1 year of age and older consumed fewer than three meals in the preceding 24 hours. FSP participants were significantly more likely than higher-income nonparticipants to have consumed fewer than three meals in the preceding 24 hours (44% vs. 33%).

- **Energy.** On average, FSP participants consumed more food energy than income-eligible nonparticipants (95% of the 1989 Recommended Energy Allowance vs. 91%). FSP participants also consumed more food energy than higher-income nonparticipants, but this difference (95% vs. 93%) was not statistically significant.

- **Vitamin C.** Among males, FSP participants were significantly *more* likely than income-eligible nonparticipants to have an adequate usual intake of vitamin C (76% vs. 68%). Among females, FSP participants were significantly *less* likely than either group of nonparticipants to consume an adequate amount of vitamin C (75% vs. 79-80%).

- **Iron.** FSP participants were significantly less likely than higher-income nonparticipants to consume adequate amounts of iron (91% vs. 95%). Among menstruating females, who are at greater risk of consuming inadequate amounts of iron than other subgroups, differences between FSP females and higher-income females differed by age. Among 14-18-year-olds, FSP females were *more* likely than higher-income females to have an adequate iron intake (90% vs. 77%). Among females 19-50 years of age, the trend was reversed, with FSP females being *less* likely than their higher-income counterparts to consume adequate amounts of iron (77-80% vs. 84-86%).

- **Zinc.** FSP participants were significantly less likely than either group of nonparticipants to have an adequate zinc intake (80% vs. 83% and 88%). The oldest adults (71 years and older) were at the greatest risk of inadequate zinc intake and the risk was significantly greater for FSP participants than for higher-income nonparticipants (49% vs. 71% had adequate intake).

- **Calcium.** It was not possible to assess the prevalence of adequate calcium intakes among older adults because the required dietary standard—the EAR—has not been established for calcium. Mean usual calcium intakes were compared to established Adequate Intake (AI) levels. On average, FSP participants consumed a significantly smaller percentage of the AI for calcium than either income-eligible nonparticipants or higher-income nonparticipants (73% vs. 79% and 83%).

- **Percent of Energy from Fat.** On average, persons 2 years and older obtained about 34 percent of their food energy from fat.[4] This level of fat intake exceeded the *Dietary Guidelines for Americans* recommendation of no more than 30 percent of total energy (U.S. Departments of Agriculture and Health (USDA) and Human Services (DHHS), 2000) but fell within more recently defined Acceptable Macronutrient Distribution Ranges (AMDRs) for fat intake (Institute of Medicine (IOM), 2002b).[5] FSP participants had a significantly lower usual fat intake than

[4] Assessment of fat, saturated fat, cholesterol, sodium, and fiber intake was limited to persons 2 years and older because the reference standards used for most of these dietary components (the *Dietary Guidelines for Americans*) are not designed for younger children.

[5] AMDRs for fat intake have been defined for three different age groups: children 1 to 3 years (30-40% of energy); children 4 to 18 years (25-35%); and all those 19 years and older (20-35%).

higher-income nonparticipants (33.1% of total energy vs. 33.6%).

Distributions of usual fat intake suggest that, in several subgroups (4-8-years, 14-18-years, 31-50-years, and 71 years and older), FSP participants were more likely than one or both groups of nonparticipants to have usual fat intakes that fell within the relevant AMDR. A different pattern was observed for 1-3-year-olds. Although, few children in this age group had usual fat intakes that exceeded the upper end of the AMDR, the distributions suggest that this was more likely to occur for FSP participants that for either group of nonparticipants (usual intakes at the 95th percentile were 41.7% vs. 39.4% and 39.0%, compared with an AMDR of 30-40%). At the opposite end of the distribution, 1-3-year-old FSP participants were *less* likely than income-eligible nonparticipants and *more* likely than higher-income nonparticipants to have usual fat intakes that fell within the lower bound of the AMDR (usual intakes at the 15th percentile were 29.2% vs. 31.2% and 27.6%).

- **Percent of Energy from Saturated Fat.** The mean usual saturated fat intake of persons 2 and older exceeded the *Dietary Guidelines* recommendation that saturated fat provide less than 10 percent of total energy (USDA and U.S. DHHS, 2000). There were no significant between-group differences in the mean usual intake of saturated fat; in all three participant/nonparticipant groups, saturated fat contributed roughly 11 percent of usual energy intake. FSP participants were significantly less likely than income-eligible nonparticipants to meet the *Dietary Guidelines* recommendation for saturated fat (23% vs. 27%).

- **Cholesterol.** The mean usual cholesterol intake of persons 2 and older (271 mg.) was consistent with the *Dietary Guidelines* recommended maximum of 300 mg. (USDA and U.S. DHHS, 2000). The mean usual cholesterol intake of FSP participants was significantly greater than the mean usual intake of higher-income nonparticipants (291 mg. vs. 267 mg.). In addition, FSP participants were significantly less likely than higher-income nonparticipants to have usual cholesterol intakes that were consistent with the *Dietary Guidelines* recommendation (61% vs. 68%).

  Sodium. The mean usual sodium intakes of persons 2 and older (3,463 mg.) exceeded the *Dietary Guidelines* recommended maximum of 2,400 mg. (USDA and U.S. DHHS, 2000) as well as the more recently defined Tolerable Upper Intake Levels (UL) (IOM, 2004).[6] Overall, FSP participants had a significantly lower usual sodium intake than higher-income nonparticipants (3,339 mg. vs. 3,518 mg.). Nonetheless, distributions of usual sodium intake suggest that FSP participants aged 2-3-years, 4-8-years, and 14-18-years were significantly *less* likely than comparably aged higher-income nonparticipants to have usual sodium intakes consistent with the UL. The trend was reversed for older age groups. For all subgroups of adults 19 and older, FSP participants were significantly more likely than higher-income nonparticipants to have usual sodium intakes that were consistent with the UL.

[6] ULs for sodium are lower than the *Dietary Guidelines* recommendation, especially for the youngest age groups. The ULs are 1,500 mg. for 2-3-year-olds, 1,900 mg. for 4-8-yearolds, 2,200 mg. for 9-13-year-olds, and 2,300 mg. for all those 14 years and older.

Health Eating Index Scores

- For all persons 2 years and older, the mean HEI score was 64.0 out of a possible 100. On average, FSP participants scored lower on the HEI than either income-eligible or higher-income nonparticipants (60.2 vs. 61.8 and 64.8). The HEI is a composite score constructed from 10 individual scores: five food-based scores that assess intake of grains, vegetables, fruits, dairy, and meat, four nutrient-based scores, and a variety score.[7]

- FSP participants were *more* likely than higher-income nonparticipants to consume poor diets (24% vs. 15%) and *less* likely to consume "good" diets (6% vs. 12%).

- FSP males had significantly lower mean scores than income-eligible males for both the grain (6.3 vs. 6.9) and variety (6.6 vs. 7.2) components of the HEI. For both of these components, significantly fewer FSP males than income-eligible males satisfied the HEI standard (23% vs. 28% for the grain component and 42% vs. 48% for the variety component). Differences between FSP males and higher-income males were more widespread. FSP males had significantly lower mean scores than higher-income males on all of the food-based HEI components except meat. The same pattern was true for the percentage of males meeting HEI standards for the food-based components.

- Mean scores for female FSP participants and income-eligible females were significantly different for three of the six food-based HEI components: fruit, meat, and variety. For the fruit and variety components, FSP females had significantly lower mean scores than income-eligible females (3.1 vs. 3.9 for the fruit component and 6.5 vs. 6.9 for the variety component). For both of these components, significantly fewer FSP females than income-eligible females satisfied the HEI standard (13% vs. 22% for the fruit component and 39% vs. 45% for the variety component). FSP females were also less likely than income-eligible females to meet the HEI standard for vegetables (19% vs. 24%). For the meat component, the difference between FSP females and income-eligible females ran in the opposite direction. In comparison with income-eligible females, FSP females scored *higher*, on average, on the meat component (6.6 vs. 6.2) and were *more* likely to consume the recommended number of meat servings per day (30% vs. 25%).

- Mean HEI scores for FSP females and higher-income females were significantly different for all food-based components except grains. The same pattern was true for the percentage of females meeting HEI standards for food-based components. With the exception of the meat component, mean scores were significantly lower for FSP females than for higher-income females, and FSP females were significantly less likely than higher-income females to satisfy HEI standards. As noted in the comparison of FSP females and income-eligible females, the between-group difference for the meat component ran in the opposite direction.

- There were no significant differences between FSP participants and income-eligible nonparticipants on any of the nutrient-based components of the HEI. Significant differences were observed between FSP participants and higher-income nonparticipants for the cholesterol and

[7] The nutrient-based components compare intakes of total fat, saturated fat, cholesterol, and sodium to recommended maximums.

sodium components. FSP participants had a significantly *lower* mean score for cholesterol (7.3 vs. 7.9) and a significantly *higher* mean score for sodium (6.4 v. 6.0).

Body Weight

Body weight was assessed on the basis of body mass index (BMI), a measure of the relationship between height and weight that is the commonly accepted index for classifying adiposity (or fatness) in adults (CDC, 2003).[8] For adults (20 and older), a healthy weight is defined as a BMI that is at least 18.5 but less than 25. Overweight is defined as a BMI of 25.0 to 29.9, and obesity is defined as a BMI of 30 or more. A BMI below 18.5 indicates underweight.

For children, BMIs were compared to a BMI-for-age growth chart developed by the CDC (Kuczmarski et al., 2002). Because this growth chart is designed for ages 2 and over, children less than 2 years were excluded from the analysis. In assessing children's weight status, use of the word "obesity" is avoided because of potential negative connotations (CDC, 2003). Instead, assessment of weight status focuses on the prevalence of overweight (defined as BMI-for-age at or above the 95th percentile), the prevalence of being at risk of overweight (defined as BMI-for-age between the 85th and 95th percentiles), and the prevalence of underweight (defined as BMI-for-age below the 5th percentile). The prevalence of retarded linear growth (height-for-age below the 5th percentile) was also assessed.

Adults (20 and Older)

- Adult FSP participants had a significantly greater mean BMI than either income-eligible nonparticipants or higher-income nonparticipants (28.3 vs. 26.9 and 26.4). The differences between groups were entirely attributable to differences among females (29.3 vs. 27.4 and 26.1).

- Female FSP participants were significantly *less* likely than either income-eligible females or higher-income females to be at a healthy weight (28% vs. 36% and 49%) and significantly *more* likely to be obese (42% vs. 30% and 22%).

- There were no statistically significant differences between FSP males and income-eligible males in the distribution of body weight. In comparison with higher-income males, however, FSP males were *more* likely to be at a healthy weight (44% vs. 37%) and *less* likely to overweight (29% vs. 42%).

Children 2-19 Years

- In comparison with higher-income children, FSP children had a significantly greater mean BMI (19.8 vs. 19.2) and were significantly more likely to be overweight (12% vs. 9%). These differences were concentrated among 12-19-year-old females. FSP females in this age group had a significantly greater mean BMI than comparably aged higher-income females (23.7 vs. 21.8). In addition, they were almost twice as likely to be overweight (13% vs. 7%) and almost twice as likely to be at risk of overweight (22% vs. 12%).

[8] BMI is equal to [weight in kilograms] ÷ [height in meters]^2.

- FSP children were significantly *less* likely than higher-income children to be underweight (3% vs. 4%). This difference was concentrated among 3-5-year-old males. In this subgroup, the prevalence of underweight among FSP participants was less than half that of higher-income nonparticipants (3% vs. 7%).

- FSP children were twice as likely as higher-income nonparticipant children to have retarded linear growth (6% vs. 3%).

Nutritional Biochemistries

- **Iron Deficiency.** FSP participants were twice as likely as higher-income nonparticipants to be iron deficient (10% vs. 5%). This difference was concentrated among females of childbearing age, particularly 20-29-year-olds (14% vs. 6%) and 30-39-year-olds (20% vs. 9%).

- **Iron-deficiency Anemia.** FSP participants were twice as likely as higher-income nonparticipants to have iron-deficiency anemia (4% vs. 2%). Differences between the two groups were concentrated among 1-2-year-olds (5% vs. 1%) and among females (5% vs. 3%).

- **Anemia.** Overall, the prevalence of anemia (defined on the basis of low hemoglobin) among FSP participants was double that of higher-income nonparticipants (14% vs. 7%). Among 1-2-year-olds, 3-5-year-olds, 20-29-year-olds, and adults 70 and older, FSP participants were significantly more likely than either income-eligible nonparticipants or higher-income nonparticipants to have anemia.

- **Low Red Blood Cell (RBC) Folate.** FSP participants were significantly more likely than higher-income nonparticipants to have low RBC folate (11% vs. 6%).

- **Low Serum Vitamin B_{12}.** FSP participants were significantly less likely than higher-income nonparticipants to have low levels of serum vitamin B_{12} (2% vs. 3%).

- **High and Borderline-high Total Cholesterol.** FSP participants were significantly less likely than income-eligible nonparticipants to have a high total cholesterol (16% vs. 19%). This difference was concentrated among females, with FSP participants significantly less likely than either group of nonparticipants to have a high cholesterol (16% vs. 20% and 19%). There were no significant differences between FSP participants and either group of nonparticipants in the prevalence of borderline-high cholesterol levels.

Bone Density

- Among those most at risk of osteoporosis—adults 80 and over—FSP participants were significantly more likely than higher-income nonparticipants to have severely reduced bone density (42% vs. 24%).
- A notably different pattern was observed among younger adult males. FSP males were significantly *less* likely than income-eligible males (20-29 years and 40-49 years) and higher-income males (20-29 years through 40-49 years) to have reduced or severely reduced bone density.

Health-Related Behaviors

Initiation and Duration of Breastfeeding

- Among women who had given birth within the preceding 2 years, FSP participants were significantly less likely than either income-eligible nonparticipants or higher-income nonparticipants to have breastfed their infant(s) (45% vs. 59% and 63%). Similarly, FSP infants and children under the age of 6 were significantly less likely to have ever been breastfed than either income-eligible or higher-income nonparticipant infants and children (33% vs. 48% and 63%).

- Among infants and children who had been breastfed, FSP infants and children were significantly less likely than either group of nonparticipants to have been breastfed for at least 6 months (36% vs. 43-44%).

- Among the youngest breastfed infants (2-6-month-olds and 7-11-month-olds), FSP participants were significantly more likely than either of the nonparticipant groups to have received supplemental infant formula. In addition, among infants and 2-year-olds, breastfed FSP participants were first fed formula on a daily basis at a significantly earlier age than breastfed higher-income nonparticipants.

Other Infant Feeding Practices

- It is recommended that infants be fed beverages from cups rather than bottles as soon as they are able to sit erectly on their own. At about a year of age, there was a noteworthy decline in use of baby bottles. However, in comparison with higher-income children, the rate of decline was significantly slower for FSP children. Among 1-4-year-olds, the percentage using a baby bottle was significantly greater for FSP participants than for higher-income nonparticipants at each year of age. Among 4-year-olds, the difference between FSP participants and income-eligible nonparticipants was also statistically significant.

- Recommended infant feeding practices suggest that infants not receive solid foods until they are at least 4 months old. Parents of FSP infants and children were more likely to adhere to this guideline than parents of either income-eligible nonparticipants or higher-income nonparticipants (20% vs. 24% for both groups of nonparticipants).

Physical Activity and Television Viewing Among Children

- In comparison with higher-income nonparticipant children, FSP children were less likely to engage in vigorous physical activity (mean time per week: 4.4 times vs. 4.8 times and percent engaging in vigorous physical activity at least three times per week: 74% vs. 81%) and less likely to be involved in team sports or other organized exercise programs (50% vs. 68%).

- Among children 5-16 years, FSP participants watched significantly more television, on average, than higher-income children. Higher-income males spent about 18 minutes less per day in front of the television than their FSP participant counterparts. Higher-income females spent about 35 fewer minutes per day watching television than FSP females. FSP children were less likely than

higher-income children to meet the *Healthy People 2010* goal (U.S. DHHS, 2000a) of limiting television viewing to no more than 2 hours per day (55% vs. 68%).

Physical Activity Among Adults

- Among adults (17 years and older) FSP participants were significantly *more* likely than either group of nonparticipants to engage in no physical activities (33% vs. 24% and 13%) and significantly *less* likely to engage in three or more physical activities (19% vs. 30% and 45%).

- In addition, FSP adults were less likely than adults in either of the nonparticipant groups to have walked a mile or more without stopping at least once during the past month (42% vs. 46% and 51%) and to have been physically active three or more times per week (37% vs. 51% and 60%) or five or more times per week (28% vs. 40% and 46%).

Alcohol Consumption

- Among persons 12 years and older, FSP participants were significantly less likely than higher-income nonparticipants to have consumed 12 or more alcoholic beverages—both over a lifetime (74% vs. 82%) and within the past year (37% vs. 52%). When drinking, however, FSP participants consumed more alcoholic beverages, on average, than higher-income nonparticipants (5 drinks vs. 3 drinks).

Tobacco Consumption

- FSP participants were significantly more likely than either income-eligible nonparticipants or higher-income nonparticipants to have ever smoked (defined as having smoked at least 100 cigarettes in a lifetime) (57% vs. 51% and 48%). Current use of cigarettes (defined as having smoked cigarettes in the last 5 days, regardless of whether 100 or more cigarettes had been smoked over a lifetime) was also significantly more common among FSP participants than either income-eligible or higher-income nonparticipants (44% vs. 35% and 25%).

- FSP participants started smoking at a younger age than either group of nonparticipants (16.3 years vs.17.0 years and 17.2 years).

- Nonsmoking FSP participants were more likely than nonsmokers in either group of nonparticipants to be exposed to second-hand smoke produced by other household members (34% vs. 26% and 18%). The exposure of infants and young children to second-hand smoke is of special concern. FSP infants under a year of age were more likely than infants in either of the nonparticipant groups to be exposed to second-hand smoke (53% vs. 42% and 27%). In addition, FSP children between the ages of 1 and 5 were more likely to be exposed to second-hand smoke than comparably aged children in the higher-income nonparticipant group.

- The percentage of nonsmoking FSP participants with high serum cotinine levels was significantly greater than the percentage of nonsmokers in either the income-eligible or higher-income nonparticipant groups (75% vs. 70% and 62%). Cotinine is a breakdown product of nicotine, and is used as a biological marker for tobacco use and exposure to environmental tobacco smoke. The

prevalence of abnormal serum cotinine levels in children was exceptionally high for FSP participants.

Health Status

- FSP participants were *less* likely than either group of nonparticipants to rate their health status as being very good or excellent (33% vs. 40% and 63%) and *more* likely to rate their health status as fair or poor (32% vs. 24% and 10%).

- Physician assessments of general health status were consistently more positive than self-assessments, but the general trends were largely consistent with those observed in the self-reported data. Physicians found that FSP participants were *less* likely to be in excellent or very good health than either group of nonparticipants (61% vs. 66% and 76%) and *more* likely to be in fair or poor health (13% vs. 11% and 5%).

Chronic Health Conditions Among Adults

- FSP participants were more likely than either income-eligible or higher-income nonparticipants to report having diabetes (10% vs. 7% and 5%) and emphysema or congestive heart failure (9% vs. 6% and 4%).[9] FSP participants were also more likely than higher-income nonparticipants to report having had a heart attack (5% vs. 3%) or a stroke (4% vs. 2%) and to actually have high blood pressure (based on physician assessment) (23% vs. 18%).

- Both FSP males and FSP females had significantly greater 10-year risks of coronary heart disease than their counterparts in the higher-income nonparticipant group. In addition, FSP males were significantly more likely than higher-income nonparticipant males to have a 10-year-risk that exceeded 10 percent (35% vs. 30%).

Pregnancy and Childbirth History

- FSP females were significantly more likely than either income-eligible or higher-income females to have been pregnant one or more times (93% vs. 84% and 78%). Among females who had ever been pregnant, FSP participants had significantly more pregnancies (4.4 vs. 3.5 and 2.9) and more live births (3.4 vs. 2.8 and 2.1) than either group of nonparticipants.

- Female FSP participants were significantly younger at the time of their first live birth than either income-eligible nonparticipant females or higher-income nonparticipant females (19.8 years vs. 21.0 years and 22.4 years). In addition, FSP females were significantly more likely than either group of nonparticipant females to have been teenagers at the time of their first live birth (59% vs. 47% and 30%).

[9] Congestive heart failure and emphysema were combined for this analysis because the prevalence of each condition was so low that most point estimates in the individual tabulations were statistically unreliable.

Birth Characteristics of Infants and Children

- Among infants and children under 12 years of age, FSP participants were born to younger mothers, on average, than either group of nonparticipants (23.7 years vs. 24.7 years and 27.0 years). FSP infants and children were also more likely than infants and children in either of the nonparticipant groups to have been born to a teen mother (26% vs. 17% and 8%). FSP infants and children were less likely than higher-income nonparticipant infants and children to have been born to mothers over the age of 35 (4% vs. 6%).

- Infants and children participating in the FSP were more likely than either income-eligible or higher-income infants and children to have been born to women who smoked during the pregnancy (31% vs. 23% and 21%).

- Based on self-reported data, infants and children participating in the FSP had a significantly lower mean birthweight than either income-eligible nonparticipants or higher-income nonparticipants. Infants and children in FSP households were also more likely than infants and children in either of the two nonparticipant groups to have been low birthweight (less than 2,500 gm. or 5.5 pounds) (13% vs. 8% and 5%).

Measures of Childhood Health

- Among infants and 3-5-year-olds, the percentage of FSP participants who had been hospitalized at least once since birth was significantly greater than the percentage of either income-eligible or higher-income nonparticipants.

- Infants and children (up to the age of 16) participating in the FSP were significantly less likely than higher-income nonparticipant infants and children to have had an accident, injury, or poisoning that required medical attention (9% vs. 16%).

- Compared with higher-income nonparticipants, FSP infants and children under the age of 6 were more likely to have both asthma and chronic bronchitis. In addition, FSP children between 3 and 16 were significantly *less* likely to have hay fever than comparably aged higher-income children.

Lead Poisoning

- Infants and children participating in the FSP were significantly more likely than infants and children in either group of nonparticipants to have been screened for lead poisoning (17% vs. 10% and 6%).

- Based on NHANES-III laboratory tests, FSP children were significantly more likely than children in either of the nonparticipant groups to have high levels of blood lead (6% vs. 4% and 1%).

Dental Health

- Among adults 80 and older, the mean number of missing, decayed, and filled teeth was significantly higher for FSP participants than for either group of nonparticipants. In addition, among children 2–11 years and adults 60-69 years, FSP participants had more missing, decayed,

or filled teeth than higher-income nonparticipants. Among females 40-49 years, the trend was reversed. In this cohort, FSP participants had significantly fewer decayed, missing, or filled teeth than either group of nonparticipants.

- FSP participants were significantly less likely than higher-income nonparticipants to have visited a dental health professional at least once (90% vs. 95%) or within the past year (45% vs. 70%).

Health Insurance Coverage

- Overall, FSP participants were *more* likely than income-eligible nonparticipants and *less* likely than higher-income nonparticipants to have health insurance (81% vs. 67% and 93%). FSP participants were significantly *more* likely to have Medicaid coverage (59% vs. 15% and 2%) and significantly *less* likely to have private health insurance (26% vs. 48% and 89%).

- Among preschool-age children (1 to 5 years), the difference between FSP participants and higher-income nonparticipants in health insurance coverage was not statistically significant. In these age groups, only about 5 percent of FSP participants and a comparable percentage of higher-income nonparticipants were lacking insurance. In contrast, 23 to 26 percent of income-eligible nonparticipants in this age group had no health insurance. Differences between FSP participants and income-eligible nonparticipants were statistically significant. A comparable pattern was observed for infants.

- Among the oldest adults (70 years and older), there were essentially no significant differences between FSP participants and either group of nonparticipants in health insurance coverage. In this age cohort, close to 100 percent of the individuals in all three participant/nonparticipant groups were covered by some form of insurance.

- Among other adults (20 to 69 years), the statistical significance of the difference between FSP participants and income-eligible nonparticipants varied by gender. Among males, there were no significant differences between FSP participants and income-eligible nonparticipants in rates of insurance coverage. This pattern was also observed for females between 50 and 69 years of age. Among women of childbearing age (20-49 years), however, FSP participants were significantly more likely than income-eligible nonparticipants to have health insurance.

Regular Source of Health Care

- FSP participants were *more* likely than income-eligible nonparticipants and *less* likely than higher-income nonparticipants to have a regular source of health care (81% vs. 74% and 84%).

- FSP participants were significantly less likely than higher-income nonparticipants to have a regular health care provider (63% vs. 73%).

Chapter One
Introduction

This report describes the nutrition and health characteristics of participants and nonparticipants in the Food Stamp Program (FSP) using data from the Third National Health and Nutrition Examination Survey (NHANES-III).[1] The NHANES survey is the primary source of information used in monitoring the Nation's nutrition and health status. NHANES-III was completed between 1988 and 1994 and provides data for a large nationally representative sample of individuals.[2]

The report compares and contrasts characteristics of FSP participants and two groups of nonparticipants: low-income individuals who were income-eligible for the FSP (household income at or below 130 percent of the Federal poverty guideline) and higher-income individuals who were not income-eligible for the FSP (household income above 130 percent of poverty).

A broad array of measures is used to describe the nutrition and health characteristics of FSP participants and nonparticipants. Nutritional status is examined through measures of dietary intake, body weight, selected nutritional biochemistries, and bone density. Important health-related behaviors are also examined, including breastfeeding and other infant feeding practices, physical activity, children's television viewing habits, and alcohol and tobacco consumption. Health status is assessed on the basis of self-reported and physician-assessed general health status, the prevalence of chronic disease, risk of coronary heart disease, pregnancy and childbirth history, birth characteristics, other measures of child health, and dental health. Finally, data on health insurance coverage and use of regular health care providers are used to assess access to health care services.

This research was not designed to assess program impacts or in any way attribute differences observed between FSP participants and either group of nonparticipants to an effect of the program. Rather, it was designed to establish a baseline from which to monitor the nutrition and health characteristics of FSP participants and nonparticipants over time and to generate questions and hypotheses for future research. The data presented in this report provide useful background information for researchers interested in studying the nutrition and health characteristics of low-income populations and/or the impact of participation in food assistance programs, or other variables, on nutrition and health characteristics. The data also provide important insights for individuals who plan and implement nutrition or health programs for low-income individuals.

This introductory chapter provides an overview of the FSP as well as a brief description of the NHANES-III data and the general approach to the analysis. The six chapters that follow present findings on the nutrition and health characteristics listed above. Details on data and methodology may be found in appendices referenced throughout the report.

[1] Similar reports have been prepared for WIC participants and nonparticipants (Cole and Fox, 2004a), school-age children (Fox and Cole, 2004), and older adults (Cole and Fox, 2004b).

[2] Beginning in 1999, NHANES became a continuing survey, without breaks between data collection cycles. Similar sampling and data collection procedures are used, although at least two years of data are necessary to have adequate sample sizes for subgroup analyses (Flegal et al., 2002). Data for the first two continuous years of the ongoing NHANES (1999-2000) have been released since the time the tabulations presented in this report were prepared. Data for subsequent years are expected in mid-2005.

The Food Stamp Program

The FSP is the cornerstone of the Nation's nutrition safety net. In FY 2002, the FSP accounted for about 54 percent of the $38 billion Federal expenditure for food assistance and nutrition programs (FANPs) and served more than 19 million participants per month (USDA/FNS, 2003a). The FSP differs from other FANPs in its universality—it is an entitlement program that bases eligibility solely on financial need. All other FANPs base eligibility at least in part on membership in a specific demographic group. (For example, participation in the National School Lunch Program is limited to school-age children and participation in the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) is limited to infants, children under 5 years of age, and pregnant and postpartum women). As a result, the FSP is available to essentially all financially needy individuals and serves a diverse array of low-income citizens.

The goal of the FSP is to increase a household's food purchasing power by providing coupons or electronic benefits that can be used at most retail grocery stores.[3] Unlike the other major FANPs, the household rather than the individual is the recipient and is the unit considered in determining eligibility and benefit amounts. The household includes all persons living together in a dwelling who normally purchase food and prepare meals as a unit. Eligibility is determined on the basis of the pooled income, resources, and expenditures of all members of the household. Elderly and disabled individuals who cannot prepare and purchase food because of a substantial disability may apply as a separate household, as long as the pooled income of the remainder of the household is less than 165 percent of poverty. Monthly benefit levels increase with the number of people in the household, but not at a flat rate per person.

[3]FSP benefits can be used only to purchase food or seeds and plants used to produce food.

Program Eligibility

To be eligible for the FSP, a household must meet certain financial, work-related, and categorical requirements. Financial requirements include a *gross income limit* of 130 percent of poverty, a *net income limit* (gross income less allowable deductions) of 100 percent of poverty, and a *countable assets limit* of $2,000. Households with elderly or disabled members are not subject to the gross income limit, are eligible for increased deductions for medical expenses and shelter costs, and have a countable assets limit of $3,000.

Recipients of Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), and general assistance are deemed to be income-eligible regardless of income and assets. Work-related eligibility conditions require certain household members to register for work, accept suitable job offers, and comply with State welfare agencies' work or training programs. Finally, a few groups are categorically ineligible for the FSP. These include strikers, most persons who are not citizens or permanent residents, postsecondary students, and people living in institutional settings.

Program Participation

Because the FSP is available to most people who meet income and resource standards, the households that participate in the program are quite diverse and represent a broad spectrum of the needy population (Rosso, 2003). In FY 2001, almost all FSP participants lived in poverty. The gross monthly income of 89 percent of FSP households was less than or equal to 100 percent of the poverty guideline. More than half of all FSP households had incomes that were less than or equal to 75 percent of the poverty guideline and one-third had incomes that were less than or

equal to 50 percent of the poverty guideline (Rosso, 2003).

Administrative data for FY 2001 (Rosso, 2003 and Tuttle, 2002) indicate that the vast majority (88%) of FSP households contained either a child, an elderly person (60 or older), or a disabled person. More than half (54%) of all FSP households had children. Of these, more than two-thirds (67%) were single parent households. Twenty percent of FSP households included one or more elderly individuals. The majority (80%) of these households were elderly individuals living alone. More than a quarter (28%) of all FSP households included a disabled individual, and 58 percent of these households were disabled persons living alone. Overall, 51 percent of all FSP participants in FY 2001 were children, 10 percent were elderly, and 13 percent were disabled.

FSP participation levels have changed dramatically in recent years. The number of participants grew by 47 percent between 1988 and 1994—the time period when NHANES-III data were collected—then fell back below the 1988 levels by early 1999. Between 1994 and 2000, the number of FSP participants decreased from 28.0 million to 16.9 million, a decrease of 40 percent (Tuttle, 2002). Between 2000 and 2001, the number of participants increased for the first time in 5 years, by roughly 1 million or 6 percent.

A number of investigators have studied the shifts in FSP participation, particularly the unprecedented decline noted in the mid- to late-1990s. (See, for example, Figlio et al., 2000, USDA/FNS, 2001, Jacobsen et al., 2001, Wallace and Blank, 1999, and Wilde et al., 2000a and 2000b). There is strong evidence that economic conditions played a role in the shifts seen in FSP participation levels over the past 10 to 15 years. The dramatic increase in participation in the early 1990s tracked with a declining economy (Tuttle, 2002). Similarly, the drop in participation between 1994 and 2000 was consistent with an improving economy, and the increase in participation between 2000 and 2001 may be associated with the most recent economic downturn.

The relationship between FSP participation and economic indicators doesn't tell the whole story, however. FSP participation and unemployment rates diverge at some points in time, indicating that factors other than the economy have been in play (Wilde, 2001). Key changes in program policies and regulations may also have contributed to fluctuating FSP rolls, although it is generally believed that the relative impact of program policies was substantially less than the impact of economic conditions. The most notable changes in program policy in recent years include reforms enacted in 1996 as part of the Personal Responsibility and Work Opportunity Reconciliation Act (PRWORA). These changes restricted program participation for resident aliens and other subgroups and placed strict limits on participation for "able-bodied adults without dependents" (ABAWDS). (Eligibility restrictions for resident aliens and several other groups were rescinded in 1998). Since the PRWORA reforms of 1996, participation in the Aid to Families With Dependent Children (AFDC)/TANF programs[4] shrank by 64 percent, and TANF recipient households fell from 38 percent to 26 percent of all FSP households (Cunnyngham, 2001).

While economic factors and program policies explain a substantial portion of the decline in FSP participation, it is clear that other factors were also involved. Since the mid-1990s, FSP participation has declined not only because fewer individuals were eligible for the program but also because there has been a noteworthy drop in the percentage of eligible individuals

[4]Under PRWORA, the AFDC Program was replaced by TANF.

who actually elect to participate in the program. Indeed, the rate of FSP participation among income-eligible persons declined from 74 percent in 1994 to 57 percent in 1999 (the most recent year for which data are available) (Rosso, 2001). Factors that may have contributed to this decline include recipient confusion about eligibility, erroneous termination of FSP benefits when TANF cases were terminated, effects of TANF diversion programs on the FSP application process, and shortening of FSP certification periods (Kornfeld, 2002).

Nutrition Education

Nutrition education is a relatively recent, though growing, emphasis in the FSP. In FY 1998, USDA's Food and Nutrition Service (FNS) made a "renewed commitment to nutrition education" in the FSP (and all FANPs) and established a special staff within the agency to "refocus efforts toward nutrition and nutrition education" (USDA/FNS, 2003b). The increased focus on nutrition education as an adjunct to the economic benefits provided by the FSP reflects an important shift in the overarching mission and objectives of the programs. As stated in FNS's strategic plan for 2000-2005, there is a "growing awareness that making sure people have enough food is not enough; people must have the knowledge and motivation to make food choices that promote health and prevent disease" (USDA, 2000).

This "growing awareness" is based on accumulated scientific evidence that dietary patterns are associated with 4 of the 10 leading causes of death—coronary heart disease, certain types of cancer, stroke, and diabetes—and with the development of obesity and hypertension (both of which contribute to these and other chronic diseases) (Frazao, 1999). In addition, diet plays an important role in several other health conditions, including osteoporosis, iron-deficiency anemia, and neural-tube birth defects. Most importantly, low-income individuals, the target population for the FANPs, are at increased risk of developing almost all of these health problems (U.S. Department of Health and Human Services (U.S. DHHS), 2000a).

The goal of food stamp nutrition education is to promote healthy food choices and active lifestyles among FSP participants. Four core elements have been defined for nutrition education efforts: dietary quality, food security, food safety, and shopping behavior/food resource management. Although nutrition education is still a very small part of the overall program (less than 1 percent of total program expenditures in FY 2002), efforts in this area have increased substantially in the past decade. In FY 1992, only five States applied for and received optional funding for nutrition education activities in the FSP, and the Federal share expenditure for these activities was $661,000. In FY 2002, the number of States with approved nutrition education plans was 48 and Federal expenditures for FSP nutrition education exceeded $174 million (USDA/FNS, 2003b). Most of this increase occurred after FY 1998, when FNS renewed its commitment to nutrition education in the FSP.

The Third National Health and Nutrition Examination Survey

NHANES-III was conducted by the National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC) between 1988 and 1994. The survey included interviews and physical examinations and was designed to provide national estimates of the health and nutrition status of the civilian, noninstitutionalized population in the 50 United States.

NHANES-III was based on a complex multistage probability sample design (NCHS, 1994). Persons were selected on the basis of sex, age, and race or ethnicity. Children under 6 years of

age, adults over 60 years of age, and black and Mexican American persons were oversampled. NHANES-III collected data from 33,994 persons 2 months of age and older. Response rates were 85.6 percent for the household interview and 78.8 percent for the physical examination (NCHS, 1996).

Interviews were conducted in respondents' homes and physical examinations and measurements were completed in a Mobile Exam Center (MEC). The MEC examination included a physical exam, dietary interview, health interview, blood tests, body measurements, and a dental exam. To increase response rates, a home examination was offered as an alternative to the MEC exam for infants 2-11 months of age, adults 60 and over who were in a wheelchair, or anyone who was primarily bedridden. The home examination included a subset of the measures collected in the MEC.

The dietary interview included a single 24-hour recall that collected quantitative data on foods and beverages consumed during the preceding 24 hours.[5] NCHS staff used these data to calculate nutrient intakes, using food composition data from the Survey Nutrient Database maintained by USDA's Agricultural Research Service (ARS).

Analytic Approach

FSP participants and nonparticipants in the NHANES-III sample were identified by response to a question that asked about current FSP participation: "(Are you/Is your family) receiving food stamps at the present time?" Those who reported current receipt of food stamps were considered FSP participants. Those who did not report food stamp receipt were considered nonparticipants. Nonparticipants were further subdivided into those who were income-eligible for the FSP (household income at or below the FSP cutoff of 130 percent of poverty) and those whose income exceeded the eligibility standard (income above 130 percent of poverty).[6] These three groups (FSP participants, income-eligible nonparticipants, and higher-income nonparticipants) were further divided on the basis of gender and age into a total of 72 subgroups. (A smaller number of subgroups was used for the analysis of dietary intake data and related variables. The reason for this variation is discussed in Chapter Two.)

For each variable examined, detailed tables were produced showing estimates for each of the 72 subgroups. Separate estimates were also produced for the total population, for each age group (both genders combined), and for each gender (all ages combined). Table 1 illustrates the format used in the detailed tabulations. Columns show data for all persons as well as for FSP participants and each of the nonparticipant groups. Rows show data for the age-specific subgroups, overall and by gender. Table 1 also shows the maximum sample size for each table cell. In each of the four panels, three columns show cell sizes for the three NHANES-III samples (Household Interview, MEC Examined, and Home + MEC Examined). The Household Interview sample contains all respondents. The MEC Examined sample contains the subsample of all respondents examined in the MEC, and

[5]For adults (17 years and older), NHANES-III also included a food frequency questionnaire, administered as part of the household interview. The food frequency had a 1-month reference period and was designed to collect qualitative information about dietary patterns (the data cannot be quantified because portion sizes were not collected). Data from the food frequency were not analyzed for this report.

[6]NHANES-III data include individuals who reported participation in the FSP and reported household income above the 130 percent of poverty cutoff used to define income eligibility for the FSP. This was true for 12.6 percent of those reporting FSP participation. Several factors may contribute to conflicting data on income and program participation. For example, NHANES-III measures income as a range rather than as an exact value and uses the midpoint of the range to compare household income to the poverty line; FSP eligibility is based on contemporaneous measures of household income, while NHANES-III measured income retrospectively (over the past 12 months); and NHANES-III interviewers and FSP eligibility workers may have used different probes or techniques to ascertain household income.

Table 1—Number of NHANES-III respondents: FSP participants and nonparticipants

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Household Interview	MEC Examined	MEC+Home Examined	Household Interview	MEC Examined	MEC+Home Examined	Household Interview	MEC Examined	MEC+Home Examined	Household Interview	MEC Examined	MEC+Home Examined
Both sexes												
Under 1 year	2,107	1,961	1,996	502	487	489	340	327	328	1,131	1,033	1,061
1-2 years	2,689	2,527	2,528	851	829	830	510	482	482	1,134	1,049	1,049
3-5 years	3,465	3,260	3,260	1,083	1,047	1,047	720	694	694	1,462	1,350	1,350
6-11 years	3,467	3,286	3,286	992	968	968	708	681	681	1,540	1,440	1,440
12-19 years	3,441	3,211	3,211	828	794	794	761	725	725	1,568	1,446	1,446
20-29 years	3,783	3,508	3,516	676	659	660	874	819	821	1,931	1,765	1,768
30-39 years	3,594	3,328	3,333	578	547	547	623	597	599	2,165	1,991	1,992
40-49 years	2,794	2,582	2,588	372	357	357	416	393	395	1,796	1,652	1,656
50-59 years	2,058	1,853	1,869	219	204	208	279	259	260	1,386	1,246	1,255
60-69 years	2,608	2,309	2,366	306	273	281	497	442	455	1,540	1,373	1,404
70-79 years	2,156	1,751	1,866	197	161	172	452	365	393	1,268	1,058	1,117
80 + years	1,832	1,242	1,492	151	114	131	447	297	368	918	670	781
Total	33,994	30,818	31,311	6,755	6,440	6,484	6,627	6,081	6,201	17,839	16,073	16,319
Male												
Under 1 year	1,067	982	1,005	241	233	235	163	157	158	589	531	549
1-2 years	1,347	1,273	1,274	457	446	447	239	226	226	556	517	517
3-5 years	1,675	1,579	1,579	523	504	504	342	334	334	708	654	654
6-11 years	1,768	1,665	1,665	484	472	472	352	339	339	812	753	753
12-19 years	1,622	1,510	1,510	373	356	356	374	359	359	725	665	665
20-29 years	1,801	1,643	1,644	225	214	214	437	407	407	971	877	877
30-39 years	1,620	1,468	1,470	190	176	176	276	260	261	1,047	945	945
40-49 years	1,325	1,222	1,224	139	131	131	211	202	202	878	805	807
50-59 years	953	852	859	82	77	77	131	118	119	667	596	601
60-69 years	1,298	1,166	1,185	130	117	118	236	214	221	813	732	743
70-79 years	993	823	872	81	73	76	184	153	165	632	528	558
80 + years	826	598	699	57	49	54	169	115	142	483	367	420
Total	16,295	14,781	14,986	2,982	2,848	2,860	3,114	2,884	2,933	8,881	7,970	8,089
Female												
Under 1 year	1,040	979	991	261	254	254	177	170	170	542	502	512
1-2 years	1,342	1,254	1,254	394	383	383	271	256	256	578	532	532
3-5 years	1,790	1,681	1,681	560	543	543	378	360	360	754	696	696
6-11 years	1,699	1,621	1,621	508	496	496	356	342	342	728	687	687
12-19 years	1,819	1,701	1,701	455	438	438	387	366	366	843	781	781
20-29 years	1,982	1,865	1,872	451	445	446	437	412	414	960	888	891
30-39 years	1,974	1,860	1,863	388	371	371	347	337	338	1,118	1,046	1,047
40-49 years	1,469	1,360	1,364	233	226	226	205	191	193	918	847	849
50-59 years	1,105	1,001	1,010	137	127	131	148	141	141	719	650	654
60-69 years	1,310	1,143	1,181	176	156	163	261	228	234	727	641	661
70-79 years	1,163	928	994	116	88	96	268	212	228	636	530	559
80 + years	1,006	644	793	94	65	77	278	182	226	435	303	361
Total	17,699	16,037	16,325	3,773	3,592	3,624	3,513	3,197	3,268	8,958	8,103	8,230

Source: NHANES-III, 1988-94.

the Home Examined sample is a supplement to the MEC sample for a limited number of data items.

Tables include footnotes that clearly identify data source(s). Brief descriptions of the various NHANES-III data files used in the analysis are provided in appendix A. Tables also include footnotes, as appropriate, that identify reference standards used in interpreting NHANES-III data. Reference standards are described in appendix B. To the extent possible, standards are based on those used in the *Healthy People 2010* objectives (U.S. DHHS, 2000a).

Age Adjustment

Data shown in the "total" rows of all detailed tables are age-adjusted, or standardized according to the age distribution of the U.S. population in the year 2000. Age-adjustment is important for comparisons between subgroups and for trend analyses between NHANES surveys. When comparing subgroups such as FSP participants and income-eligible nonparticipants at a point in time, age-adjustment eliminates between-group differences that are due solely to differences in the age distributions of the groups (U.S. DHHS, 2000b).

It is important to understand that age-adjusted estimates do not represent the *true* or raw estimates for a given population or subgroup. Rather, the age-adjusted estimates should be viewed as constructs or indices that provide information on the relative comparability of two or more populations (in this case, FSP participants and two different groups of nonparticipants) on a particular measure (U.S. DHHS, 2000b).[7]

[7]Estimates for gender-and-age-specific subgroups are not adjusted and do represent *true* or raw estimates for the specific subgroup.

The choice of a standard population for age-adjusted estimates is somewhat arbitrary. For this report, adjustments are based on year 2000 Census estimates. Use of year 2000 population estimates facilitates comparison of NHANES-III estimates with estimates from NHANES 1999-2000. Population estimates are shown in table 2. The year 2000 age distribution shown in column 1 of table 2 was applied to FSP participants and to each group of nonparticipants.

Statistical Tests

The statistical significance of differences between FSP participants and each group of nonparticipants was tested using t-tests. When multiple outcome categories were examined simultaneously, the Bonferroni adjustment was used to adjust for multiplicity (Lohr, 1999). Nonetheless, because of the large number of t-tests conducted, caution must be exercised in interpreting results. In general, findings discussed in the text are limited to those with strong statistical significance (1 percent level or better) or those that are part of an obvious trend or pattern in the data.

Text discussions generally focus on differences between FSP participants and one or both groups of nonparticipants. Reference may be made to other between-group differences—most often males vs. females—when the differences are noteworthy. The statistical significance of these secondary comparisons has not been tested, however, and this fact is noted in the text. Statistical tests were not performed on these second-level differences because of the expansive number of statistical tests performed in the main analysis and because these comparisons are not the focus of the report.

Additional information about the analytic approach, including use of NHANES-III sampling weights, calculation of standard errors, age standardization, and guidelines used to flag

Table 2—Age distribution of FSP participants and nonparticipants in NHANES-III sample frame and year 2000 population

	Year 2000 population distribution		NHANES-III sample frame							
	Total Persons		Total Persons[1]		Currently Receiving Food Stamps		Income-eligible Nonparticipants		Higher-income Nonparticipants	
	Population (thousands)	Percent	Population (thousands)	Percent	Population (thousands)	Percent	Population (thousands)	Percent	Population (thousands)	Percent
Both sexes										
Under 1 year	3,815	1.4	3,174	1.4	748	2.9	475	1.5	1,950	1.1
1-2 years	7,546	2.8	7,515	3.2	1,784	6.9	1,069	3.3	4,661	2.6
3-5 years	11,433	4.2	11,110	4.7	2,565	9.9	1,689	5.3	6,855	3.9
6-11 years	24,090	8.8	21,624	9.2	3,998	15.4	3,243	10.1	14,383	8.1
12-19 years	31,535	11.5	26,274	11.2	3,817	14.7	4,590	14.3	17,868	10.1
20-29 years	36,262	13.2	37,111	15.8	4,310	16.6	6,096	19.0	26,705	15.1
30-39 years	41,901	15.3	40,551	17.2	3,269	12.6	4,386	13.7	32,895	18.6
40-49 years	42,284	15.4	31,324	13.3	2,032	7.8	2,555	8.0	26,736	15.1
50-59 years	30,302	11.0	20,490	8.7	1,249	4.8	2,002	6.3	17,239	9.7
60-69 years	20,047	7.3	18,410	7.8	1,127	4.3	2,248	7.0	15,035	8.5
70-79 years	16,154	5.9	12,413	5.3	672	2.6	2,242	7.0	9,499	5.4
80 + years	9,152	3.3	5,031	2.1	446	1.7	1,404	4.4	3,182	1.8
Total	274,520	100.0	235,027	100.0	26,017	100.0	32,000	100.0	177,010	100.0
Male										
Under 1 year	–	1.4	1,642	1.4	358	3.3	247	1.7	1,037	1.2
1-2 years	–	2.8	3,844	3.4	998	9.3	491	3.4	2,355	2.6
3-5 years	–	4.2	5,660	5.0	1,243	11.6	901	6.2	3,516	4.0
6-11 years	–	8.8	11,029	9.6	1,874	17.4	1,514	10.4	7,641	8.6
12-19 years	–	11.5	13,104	11.5	1,677	15.6	2,225	15.3	9,202	10.3
20-29 years	–	13.2	18,242	16.0	1,447	13.5	3,010	20.7	13,785	15.5
30-39 years	–	15.3	19,792	17.3	1,221	11.4	1,928	13.3	16,643	18.7
40-49 years	–	15.4	15,354	13.4	790	7.4	1,221	8.4	13,343	15.0
50-59 years	–	11.0	9,982	8.7	478	4.4	981	6.8	8,523	9.6
60-69 years	–	7.3	8,565	7.5	327	3.0	972	6.7	7,266	8.2
70-79 years	–	5.9	5,341	4.7	220	2.0	663	4.6	4,459	5.0
80 + years	–	3.3	1,797	1.6	110	1.0	385	2.6	1,302	1.5
Total	–	100.0	114,352	100.0	10,744	100.0	14,537	100.0	89,071	100.0
Female										
Under 1 year	–	1.4	1,532	1.3	390	2.6	229	1.3	913	1.0
1-2 years	–	2.8	3,670	3.0	786	5.2	577	3.3	2,307	2.6
3-5 years	–	4.2	5,449	4.5	1,322	8.7	788	4.5	3,339	3.8
6-11 years	–	8.8	10,595	8.8	2,124	13.9	1,729	9.9	6,741	7.7
12-19 years	–	11.5	13,170	10.9	2,140	14.0	2,364	13.5	8,666	9.8
20-29 years	–	13.2	18,869	15.6	2,862	18.7	3,087	17.7	12,921	14.7
30-39 years	–	15.3	20,759	17.2	2,048	13.4	2,459	14.1	16,252	18.5
40-49 years	–	15.4	15,970	13.2	1,242	8.1	1,335	7.6	13,394	15.2
50-59 years	–	11.0	10,508	8.7	771	5.0	1,021	5.8	8,716	9.9
60-69 years	–	7.3	9,845	8.2	800	5.2	1,276	7.3	7,769	8.8
70-79 years	–	5.9	7,072	5.9	452	3.0	1,580	9.0	5,041	5.7
80 + years	–	3.3	3,234	2.7	335	2.2	1,019	5.8	1,880	2.1
Total	–	100.0	120,675	100.0	15,273	100.0	17,463	100.0	87,939	100.0

[1] Total includes persons with missing food stamp participation or income.
– Population by gender not available. Overall age distribution was used to adjust both male and female totals.
Source: NHANES-III, 1988-94. Year 2000 population from U.S. Census Bureau, *Monthly Estimates of the United States Population*, April 2000.

point estimates deemed to be statistically unreliable, is provided in appendix C. Individual point estimates may be deemed statistically unreliable because of small sample size or a large coefficient of variation. In keeping with NHANES-III reporting guidelines, such estimates are reported in detailed tables and are clearly flagged.

The chapters that follow summarize key findings. Graphics are used to illustrate observed differences between FSP participants and nonparticipants. Differences that are statistically significant at the 5 percent level or better are highlighted. Detailed tables provided in appendix D differentiate three levels of statistical significance ($p < .001$, .01, and .05). It is important to note that differences between FSP participants and nonparticipants may be statistically significant even if point estimates are unreliable. When this occurs, the text describes the existence and direction of the significant difference and identifies the group(s) for which point estimates are unreliable.

Comparisons between FSP participants and income-eligible nonparticipants are of primary interest. However, comparisons between FSP participants and higher-income nonparticipants are also of interest. These comparisons provide information on nutrition- and health-related disparities between FSP participants and individuals who are not constrained by low incomes.

As noted previously, this research was not designed to measure program impacts. Thus, significant differences that do appear between FSP participants and nonparticipants cannot be attributed to participation in the FSP. At the same time, the absence of a significant difference cannot be interpreted as evidence that participation in the FSP has no effect. Accurate assessment of FSP impacts requires specially designed studies or, at a minimum, complex analytical models that require a variety of measures that are not available in the NHANES-III dataset.

Chapter Two

Usual Intake of Food Energy and Nutrients

This chapter describes usual intakes of food energy and key nutrients and, to the extent possible, the prevalence of adequate usual intakes among FSP participants and nonparticipants. Nutrients included in the analysis are vitamin C, iron, zinc, and calcium. Usual intakes of fat, saturated fat, cholesterol, sodium, and fiber were also examined. These data are presented in Chapter Three.

As noted in Chapter One, the age groups used in the analysis of dietary intake data differ from those used in the remainder of the report. Specifically, the age groups used correspond to those used in the Dietary Reference Intakes (DRIs), the standards used to assess diets consumed by individuals and populations.[1] To maintain consistency across all dietary intake analyses presented in this report, the DRI age groups were also used in analyzing Healthy Eating Index (HEI) scores (Chapter Three).

To provide some context for the discussion, the chapter begins with information on several factors that may influence individuals' energy and/or nutrient intakes. These include participation in FANPs other than the FSP, household food sufficiency status, and meal and snacking patterns.

Participation in Other Food and Nutrition Assistance Programs

NHANES-III provides information on participation in four FANPs other than the FSP. These include the WIC program, the National School Lunch Program (NLSP), the School Breakfast Program (SBP), and the Elderly Nutrition Program (ENP). The following sections describe the NHANES-III survey items used to define participation in these programs and the relative rates of participation among FSP participants and nonparticipants.

In reviewing the data presented in this section, it is important to bear two facts in mind. First, survey data tend to yield lower estimates of program participation than estimates derived from program administrative data. For example, data from the Survey of Income and Program Participation (SIPP), which is generally recognized as the optimal source of survey data on program participation, underestimates participation in most programs by 10 to 15 percentage points (Trippe, 2000). Second, data reflect participation rates at the time the NHANES-III data were collected (1988-94) and therefore are not expected to be representative of *current* program participation rates.

The WIC Program

The WIC program provides supplemental foods, nutrition education, and health and social service referrals to eligible pregnant and postpartum women, infants, and children up to 5 years of age. NHANES-III included a question that asked about current participation in the WIC program: "Are you/Is [infant/child] now receiving benefits from the WIC program?"

The income eligibility criterion for the WIC program is 185 percent of poverty. Because this exceeds the income eligibility criterion for the FSP (130 percent of poverty), all FSP participants and income-eligible nonparticipants who were categorically eligible (women who were

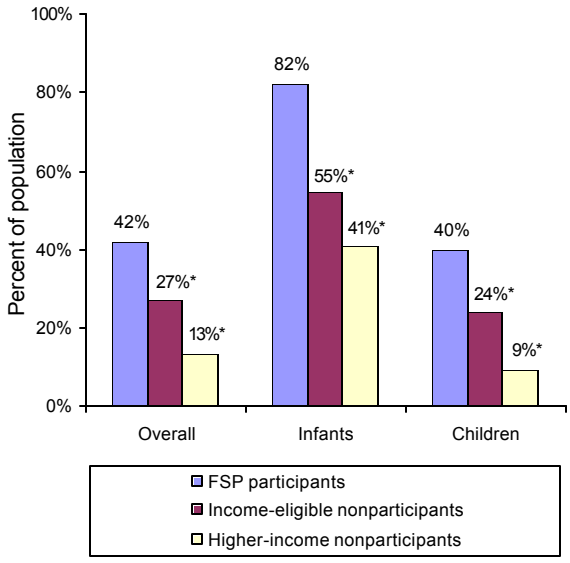
[1]Other reports in this series provide dietary intake data for children under 5 broken down by year of age (Cole and Fox, 2004a), and for older adults (60 and over) in five different age groups (Cole and Fox, 2004b).

pregnant or had given birth within the preceding 12 months, infants, and children up to the age of 5) were eligible to participate in WIC. Higher-income nonparticipants whose income did not exceed the WIC program cutoff of 185 percent of poverty were also eligible to participate.

Among individuals who were both categorically and income-eligible for WIC, FSP participants were significantly more likely than either group of nonparticipants to participate in WIC. Overall, 42 percent of categorically eligible FSP participants reported participation in the WIC program, compared with 27 percent of income-eligible nonparticipants and 13 percent of higher-income nonparticipants who met the WIC income-eligibility criterion (figure 1 and table D-1).

Among infants and children, FSP participants were significantly more likely to participate in WIC than either income-eligible nonparticipants or higher-income nonparticipants. While 82 percent of FSP infants participated in WIC, the same was true of only 55 percent of FSP-eligible infants and 41 percent of higher-income infants who were income-eligible for WIC. Similarly, among age-eligible children, 40 percent of FSP children participated in WIC, compared with about a quarter of the children in the income-eligible nonparticipant group and 9 percent of financially eligible children in the higher-income nonparticipant group.

Figure 1—Percent of income- and categorically eligible infants and children participating in the WIC Program



*Statistically significant difference from FSP participants at the .05 level or better.
Note: Women are not shown because the point estimate is statistically unreliable for higher-income women.
Source: NHANES-III, 1988-94.

Among women who were pregnant at the time they were interviewed or had had a child within the previous 12 months, there was no statistically significant difference between FSP participants and income-eligible nonparticipants in the rate of WIC participation (table D-1).[2] However, women who were participating in the FSP were significantly more likely to participate in WIC than higher-income women who were income-eligible for WIC. (Data for women are not reported in figure 1 because the point estimate for higher-income women is statistically unreliable).

Participation in the WIC program is based on more than just financial need. In order to participate in the program, individuals must also be at nutritional risk, as documented by a medical professional. The disparities seen in WIC participation rates may relate to differences in nutritional risk. Program availability may also influence WIC participation. WIC is not an entitlement program, so local WIC agencies can serve only as many individuals as their funding allows. In addition, in order to receive WIC benefits, individuals must live within specific local agency catchment areas.

The School Meal Programs

The NHANES-III survey items used to identify participation in the school meal programs asked whether the school the child attended "serve [d]

[2]Sample sizes were too small to estimate separate participation rates for pregnant and postpartum women.

school lunch [or breakfast]," and defined school lunches (or breakfasts) as "complete [meals] costing the same fixed price every day." In cases where children attended schools where such meals were offered, caregivers were asked to report the number of days per week the child usually ate the "complete [meal]." These questions were asked for all school-age children up to age 16.[3]

The National School Lunch Program

The vast majority (93%) of all children attended schools in which the NSLP was offered (table D-2). FSP children were just as likely as income-eligible nonparticipant children to attend a school that offered the NSLP. However, FSP children were significantly more likely than higher-income nonparticipant children to attend a school that offered the NSLP (98% vs. 91%).

More than half (54%) of all children usually ate a school lunch 5 days per week (table D-3). The percentage of males who consumed school lunches 5 days per week was greater than the percentage of females. This was particularly true for the oldest children. Among 12-16-year-olds, 63 percent of males usually consumed NSLP meals 5 days per week, compared with 46 percent of females (statistical significance of gender-based difference not tested).

All children attending NSLP schools are eligible to participate in the program. Children from low-income households are eligible to receive meals free of charge or at a reduced price. The criterion used to define income-eligibility for free meals is equivalent to income-eligibility for the FSP (130 percent of poverty). Thus, both FSP participants and income-eligible nonparticipants were eligible to receive NSLP meals free of charge. Higher-income children from households with incomes between 131 and 185 percent of poverty were eligible to receive meals at a reduced price. Higher-income children with household incomes above 185 percent of poverty were required to pay full price for their meals.

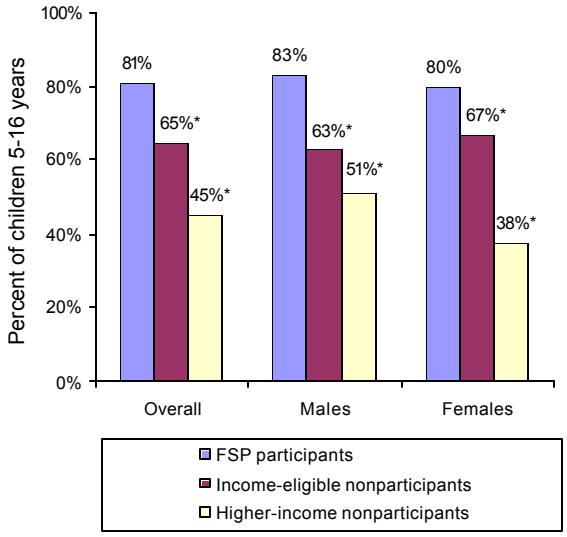
FSP participants were significantly more likely than either group of nonparticipants to consume a school lunch 5 days per week (81% vs. 65% and 45%) (figure 2). This pattern was noted for both males and females.

It is interesting to note that the difference in participation rates of males and females, noted above, was more pronounced in the higher-income-nonparticipant group (51% vs. 38%) than in the FSP participant group (83% vs. 80%) or the income-eligible-nonparticipant group (63% vs. 67%).

The School Breakfast Program

At the time the NHANES-III data were collected, about half of all school-age children attended schools that offered the SBP (table D-4). This estimate is consistent with historical data

Figure 2—Percent of children 5-16 years eating school lunch 5 days per week



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

[3]In NHANES-III, children 17 and 18 years old completed the adult interview, which did not include questions about school meal program participation.

on SBP availability, but substantially underrepresents current program availability. In the 1992-93 school year, about two-thirds of the way through the NHANES-III data collection, approximately half of the Nation's schools offered the SBP (Burghardt and Devaney, 1993). Institutional participation in the SBP has increased substantially since that time. In the 1998-99 school year, when the most recent nationally representative study of the school meal programs was completed, more than three-quarters of all public schools that offered the NSLP also offered the SBP (Fox et al., 2001).[4]

FSP children were significantly more likely to attend a school that offered the SBP than children in either of the nonparticipant groups (table D-4) More than 70 percent of FSP children attended a school where the SBP was offered, compared with 58 percent of income-eligible nonparticipants and 44 percent of higher-income nonparticipants. Although recent initiatives have focused on increasing the availability of the SBP for all children, historically, the program has been most common in low-income areas.

About 13 percent of all children reported usually consuming a school breakfast 5 days per week (table D-5). The gender-based difference in participation noted for the NSLP was not apparent in reported SBP participation.

FSP children were significantly more likely to consume a school breakfast 5 days per week than children in either of the nonparticipant groups. Overall, 38 percent of FSP children regularly consumed a school breakfast, compared with 20 percent of income-eligible nonparticipant children and 5 percent of higher-income nonparticipant children (figure 3). This pattern was observed for both males and females.

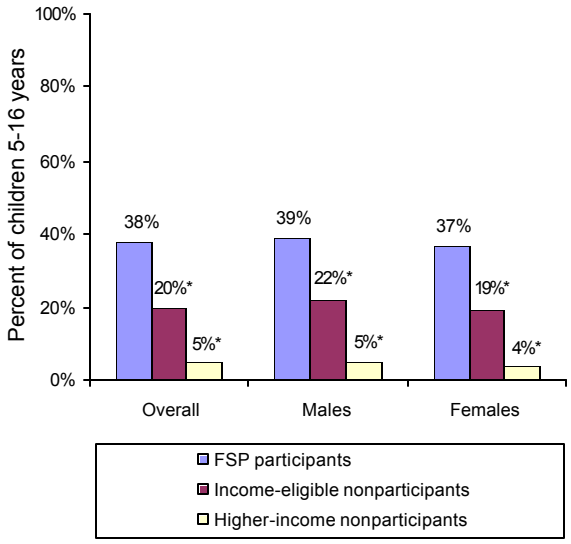
The Elderly Nutrition Program

The Elderly Nutrition Program (ENP) provides meals to adults 60 years of age and older. Most meals are served in congregate settings; however, qualified individuals may receive home-delivered meals. The NHANES-III survey items used to identify participation in the ENP asked about receipt of meals that "some churches, cities, and other organizations provide for senior citizens" and meals that were "delivered to your home, such as Meals on Wheels."

The ENP does not use a means test to determine eligibility—all adults 60 years and older, and their spouses, are eligible to participate in the program. However, the ENP is not an entitlement program. Services can be delivered only to the extent that available funds allow.

Overall, only 4 percent of senior citizens reported participation in the ENP, as measured by the survey questions described above (table D-

Figure 3—Percent of children 5-16 years eating school breakfast 5 days per week



*Statistically significant difference from FSP participants at the .05 level or be tter.
Source: NHANES-III, 1988-94.

[4]The 1992-93 and 1998-99 estimates are not directly comparable. The former is based on all schools, including private schools, while the latter is based on public schools that offer the NSLP. Given that private schools make up a small percentage of all schools nationwide and that the vast majority of all schools offer the NSLP, the difference between the two estimates is a reasonable proxy for the growth of the SBP over

6). FSP participants reported the highest rate of participation in ENP, at 11 percent (figure 4). This was not significantly different from the rate of participation among income-eligible nonparticipants (7%), but was significantly higher than the rate of participation reported by higher-income nonparticipants (3%). This pattern was observed for both males and females. FSP males had the highest rate of participation in the ENP (16%, which was double the rate of FSP females) and higher-income males had the lowest rate of participation (3%) (statistical significance of gender-based differences not tested).

Household Food Sufficiency

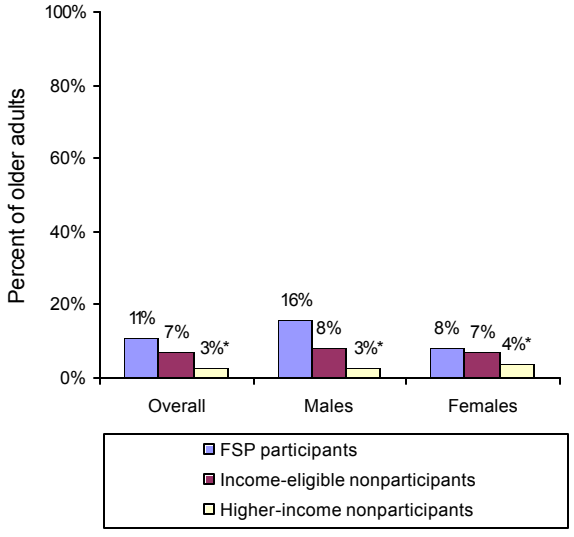
NHANES-III data were collected before dissemination of the 18-item Federal food security module, the currently accepted standard for measuring household and individual food security (Price et al., 1997 and Bickel et al., 2000). NHANES-III included a question that asked whether the household had enough to eat, sometimes did not have enough to eat, or often did not have enough to eat. Respondents who indicated that their household sometimes or often did not have enough to eat were asked how many days this occurred during the past month and why it occurred.[5] This measure has been used in NHANES-III as well as in other studies to identify households with food insufficiency (defined as households that report that there is "sometimes" or "often" not enough food to eat) (Alaimo, et al., 1998).

The data indicate that the majority of the population (96%) lived in households that always had enough to eat (table D-7). However, this was true for a significantly smaller proportion of FSP participants than for either group of nonparticipants (83% vs. 89% and 99%) (figure 5).

Fifteen percent of FSP participants reported that their households sometimes did not have enough to eat. The percentages of income-eligible and higher-income nonparticipants who experienced

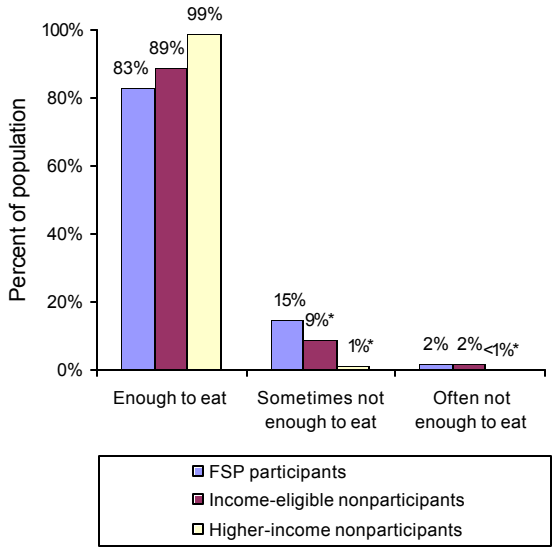
[5]Versions of the questionnaires used in the last two rounds of data collection included additional followup questions about whether children or adults in the household had decreased the size of their meals because there was not enough food. These data were not tabulated for this report because of the restricted nature of the sample.

Figure 4—Percent of adults 60 and older participating in the Elderly Nutrition Program



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 5—Distribution of persons by household food sufficiency status



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

this problem were significantly lower (9% and 1%). Problems of severe food insufficiency (often not having enough to eat) were relatively rare. Two percent of both FSP participants and income-eligible nonparticipants reported this situation, and virtually no higher-income nonparticipants (0.1%) reported it. The difference between FSP participants and higher-income nonparticipants was statistically significant.

Because so few individuals reported that their households sometimes or often did not have enough to eat, followup questions on how often and why households experienced these problems were not analyzed. Sample sizes for some subgroups were too small to produce reliable estimates.

Meals and Snacks Consumed

This analysis examined the number of meals and snacks consumed in the preceding 24 hours. Data from the 24-hour dietary recall were used to compute, for each individual, the total number of meals and snacks consumed. (As dietary intakes were reported, respondents were asked to identify eating occasions as meals (breakfast, brunch, lunch, or dinner/supper) or snacks.) Responses to a separate survey question about daily breakfast consumption were also tabulated.

Number of Meals Consumed

Overall, 35 percent of individuals 1 year of age and older consumed fewer than three meals in the preceding 24 hours (table D-9).[6] There was no significant difference between FSP participants and income-eligible nonparticipants on this measure. In comparison with higher-income nonparticipants, however, FSP participants were significantly more likely to have consumed fewer than three meals in the preceding 24 hours (44% vs. 33%). This pattern was observed for both males and females; however, differences were concentrated among adult females.

Consumption of Breakfast

NHANES-III included a separate question about usual breakfast consumption habits: "How often do you eat breakfast?" Response options were: every day, on some days, rarely, never, and on weekends only.

Overall, 54 percent of all persons reportedly consumed breakfast every day (table D-11). In keeping with the findings reported above, the percentage of FSP participants who consumed breakfast every day was significantly lower than the percentage of higher-income nonparticipants (50% vs. 55%). This difference was concentrated among females (50% vs. 57%).

Number of Snacks Consumed

Eighty-eight percent of all persons consumed at least one snack in the preceding 24 hours (table D-12). Differences between FSP participants and nonparticipants parallel those observed in the analysis of meals consumed. There was no difference between FSP participants and income-eligible nonparticipants in the percentage of persons who consumed at least one snack. However, FSP participants were significantly less likely than higher-income nonparticipants to have consumed one or more snacks (83% vs. 89%). This pattern was observed for both males and females. Overall differences were concentrated among adults 40 years and older.

Although FSP participants were no more or less likely than income-eligible nonparticipants to consume at least one snack in the preceding 24 hours, FSP participants consumed fewer snacks, on average, than their income-eligible counterparts (1.8 vs. 2.0) (table D-13). This difference was concentrated among males. FSP participants also consumed fewer snacks, on average, than higher-income nonparticipants (1.8 vs. 2.3).

[6]Data on the mean number of meals consumed are presented in table D-10

Usual Intake of Food Energy and Key Nutrients

This section describes usual intakes of food energy, vitamin C, iron, zinc, and calcium among FSP participants and nonparticipants. Infants were excluded from these tabulations because of differences between the nutrient standards defined for infants and those defined for the rest of the population.[7]

Tabulations are based on the single 24-hour recall collected in NHANES-III. The data have been adjusted, however, to account for within-person variation using variance estimates from the Continuing Survey of Food Intakes by Individuals (CSFII). (The procedures used in making these adjustments are described in appendix C.) As such, the data presented are indicative of individuals' *usual* dietary intakes, exclusive of vitamin and mineral supplements, and can be used to assess the prevalence of adequate intakes.[8]

Standards Used to Assess Adequacy of Usual Intake

Usual nutrient intakes were assessed relative to Estimated Average Requirements (EARs) and Adequate Intakes (AIs). EARs and AIs are part of a newly established set of dietary standards—the Dietary Reference Intakes (DRIs) (Institute of Medicine (IOM), 1999, 2000a, 2000b, 2002a, 2002b, 2004). The DRIs replace the *Recommended Dietary Allowances* (RDAs) used in most previous research (National Research Council (NRC), 1989a). When adequate scientific evidence is available, an EAR is established. The EAR is the level of intake that is estimated to meet the requirements of half of the healthy individuals in a particular life stage and gender group. When the available data are insufficient to estimate requirements, an AI is established rather than an EAR. The AI is the level of intake that is assumed to be adequate, based on observed or experimentally determined estimates of intake.

EARs have been defined for three of the four nutrients examined in this chapter (vitamin C, iron, and zinc). For the fourth nutrient (calcium), AIs have been defined. For nutrients that have EARs and a symmetrical requirement distribution, the IOM recommends that usual nutrient intakes be assessed using the "EAR-cutpoint method" (IOM, 2001). This approach compares the distribution of usual intakes in a population with a population-specific EAR. The proportion of the population with usual intakes below the EAR is an estimate of the proportion of the population with inadequate intakes—intakes that do not meet nutrient requirements.

For nutrients with AIs, methods for assessing usual intakes are more limited. AIs cannot be used to determine the proportion of a population with inadequate intakes. Instead, assessment focuses on comparison of mean usual intakes to the AI. Populations with a mean usual intake equivalent to or greater than the population-specific AI can be assumed to have adequate intakes.

At the time the analyses presented in this report were completed, DRIs had not been established for food energy.[9] Therefore, assessment of usual energy intakes also focuses on comparison of mean intakes, expressed as a percentage of the

[7]The reference standard used in estimating the prevalence of inadequate intakes of vitamin C, iron, and zinc—the Estimated Average Requirement (EAR)—has either not been defined for infants (vitamin C), or has been defined only for infants 7-11 months of age (iron and zinc). Sample sizes for 7-11 month olds were too small to produce reliable estimates for the subgroups examined in this report.

[8]Data on usual dietary intake do not include contributions from vitamin and mineral supplements. At the time this report was being prepared, other investigators were working on methods for incorporating supplement data into estimates of usual nutrient intake. In the NHANES-III data, the issue is not straightforward because of a lack of congruence in recall period—the preceding 24 hours for food and beverage intake vs. the preceding month for supplements.

[9]DRIs for food energy have subsequently been released (IOM, 2002b).

1989 Recommended Energy Allowance (REA) (NRC, 1989a).

Because the EARs and the calcium AI are relatively new reference standards, appendix B includes a table that shows the 1989 RDAs for vitamin C, iron, zinc, and calcium—the reference standards used in most previous research. The interested reader can compare data on mean usual intakes with the most appropriate RDA to obtain a reasonable approximation of how these data compare with previously published data. In addition, appendix D includes tables that show means and the full distribution of usual intakes (the 5th, 10th, 15th, 25th, 50th, 75th, 85th, 90th, and 95th percentiles) for food energy and each of the four nutrients.

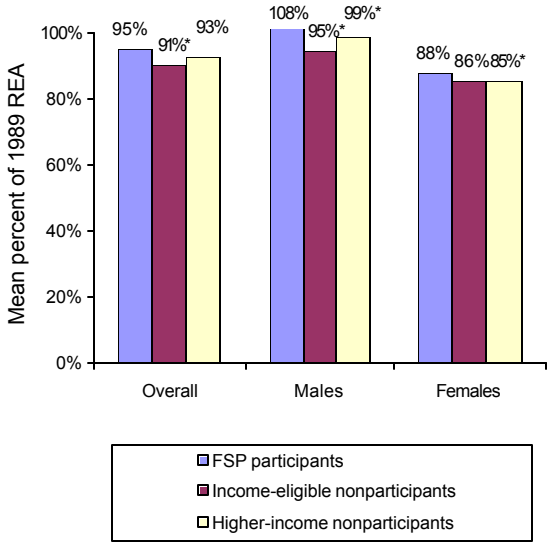
Food Energy

With the exception of adults 71 years and older, mean usual energy intakes of all age groups exceeded 90 percent of the 1989 REA (table D-15).[10] Males consumed more energy, relative to the 1989 REA, than females (98% vs. 86%) (statistical significance of gender-based difference not tested).

On average, FSP participants consumed more food energy than income-eligible nonparticipants (95% of the 1989 REA vs. 91%) (figure 6). FSP participants also consumed more food energy than higher-income nonparticipants, on average, but this difference (95% vs. 93%) was not statistically significant.

Differences in the mean usual energy intakes of FSP participants and nonparticipants varied substantially by gender and age. Among males, the mean usual energy intake of FSP participants was significantly greater than the mean usual intakes of both income-eligible and higher-income nonparticipants (108% vs. 95% and

Figure 6—Mean usual intake of food energy as a percent of the 1989 Recommended Energy Allowance



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

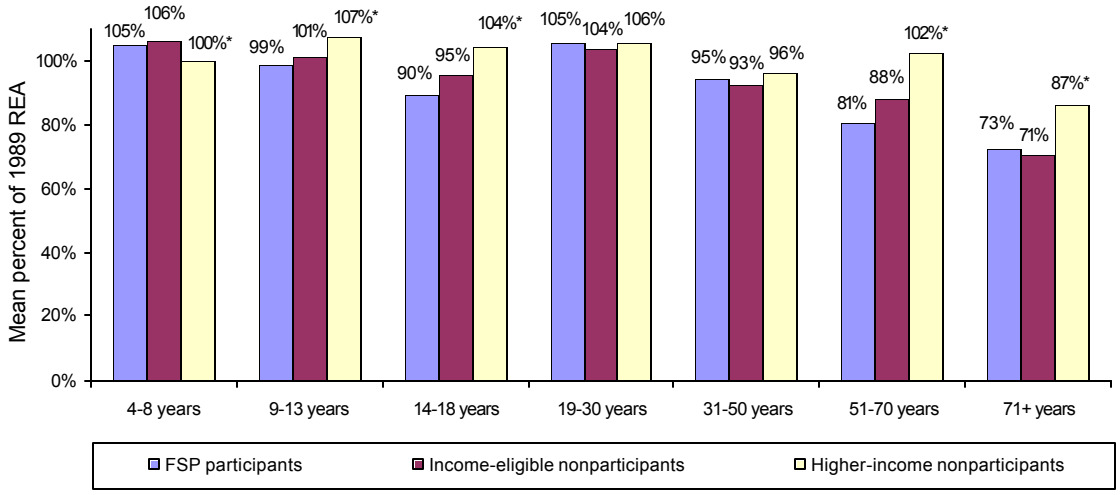
99%). There was some variation in this pattern by age, however. Among male children and adolescents between 9 and 18 years, as well as adult males 51-70 and 71 and older, the mean usual energy intake of FSP participants was significantly *less* than the mean usual energy intake of higher-income nonparticipants (figure 7).

Among females, between-group differences were generally less pronounced (figure 6). The mean usual energy intake of FSP females was comparable to that of income-eligible nonparticipant females (88% vs. 86%). The difference between FSP females and higher-income nonparticipant females was statistically significant, but the magnitude of the difference (88% vs. 85%) was substantially smaller than the difference observed for males.

There was some variation in between-group differences by age. In most cases, FSP females had greater mean usual energy intakes than one or both groups of nonparticipants, and many of these differences were statistically significant.

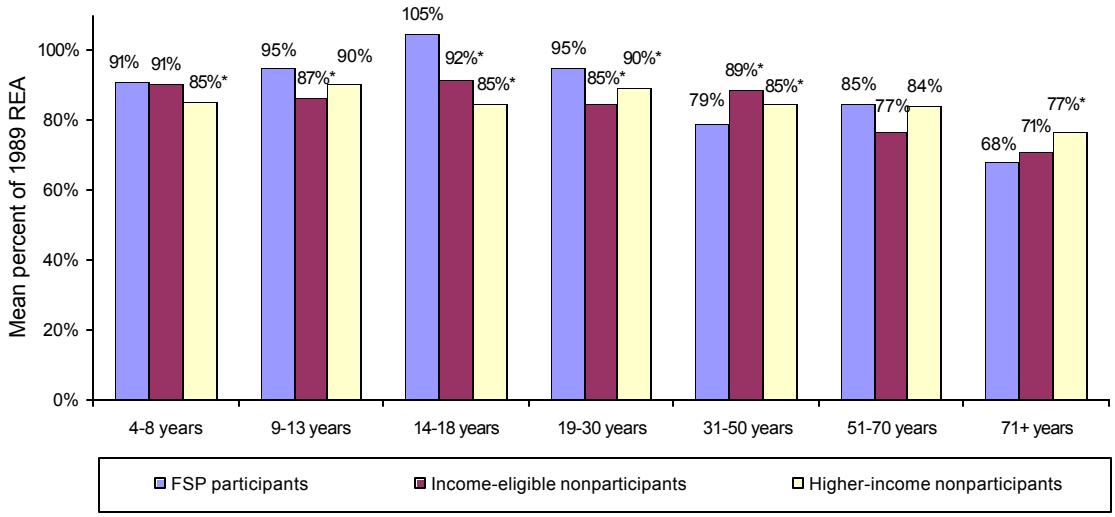
[10]Data on mean intakes in kilocalories are presented in table D-14 and the full distribution of intakes is presented in table D-16.

Figure 7—Mean usual intake of food energy as a percent of the 1989 Recommended Energy Allowance:



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 8—Mean usual intake of food energy as a percent of the 1989 Recommended Energy Allowance: Females



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

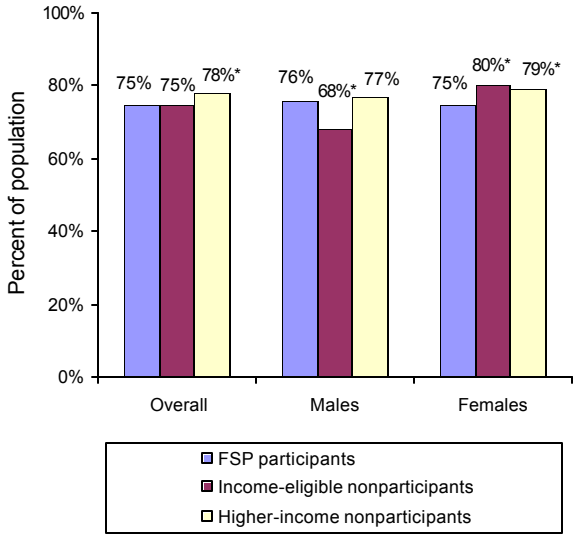
Among 31-50-year-old females, however, the mean usual energy intake of FSP participants was significantly *less* than the mean usual intake of either group of nonparticipants (figure 8). The same was true of FSP females 71 years and older, in comparison with higher-income females.

Vitamin C

More than three-quarters (77%) of all persons 1 year and older consumed adequate amounts of vitamin C (table D-18).[11] Overall, there was no significant difference between FSP participants and income-eligible nonparticipants in the percentage of persons with adequate usual intakes of vitamin C (figure 9). In comparison with higher-income nonparticipants, however, FSP participants were less likely to have an adequate usual intake of vitamin C (75% vs. 78%).

[11]Data on mean intakes of vitamin C (in mg.) are presented in table D-17 and the full distribution of intakes is presented in table D-19.

Figure 9—Percent of persons with adequate usual intake of vitamin C



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

There was a noteworthy difference in findings for males and females. Among males, FSP participants were significantly *more* likely than income-eligible nonparticipants to have an adequate usual intake of vitamin C (76% vs. 68%) and there was no significant difference between FSP participants and higher-income nonparticipants. FSP females, on the other hand, were significantly *less* likely than females in either of the nonparticipant groups to consume an adequate amount of vitamin C (75% vs. 79-80%).

There were also some interesting variations by age group among males (table D-18). Among males between the ages of 14 and 30, FSP participants were significantly *more* likely than either group of nonparticipants to consume an adequate amount of vitamin C (97% vs. 74-84%). Among males between the ages of 51 and 70, the trend was reversed. FSP males in this age group were significantly *less* likely than higher-income nonparticipants to have an adequate usual intake of vitamin C (48% vs. 69%).

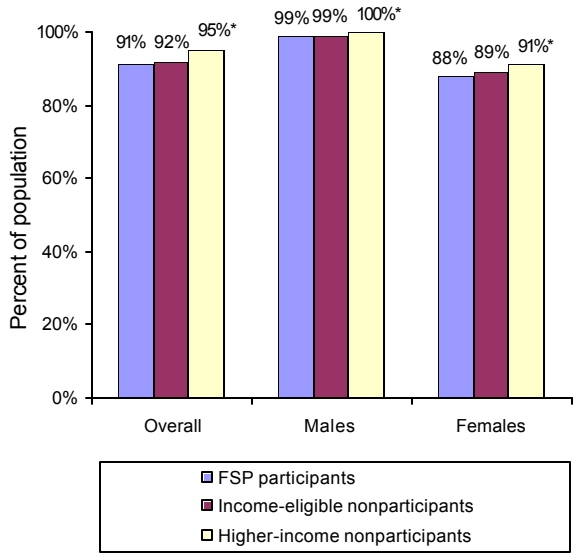
Iron

More than 9 out of 10 persons 1 year and older (94%) had adequate usual intakes of iron (table D-21).[12] The prevalence of adequate intakes was greater for males than females (100% vs. 90%) (statistical significance of gender-based difference not tested).

FSP participants were no more or less likely than income-eligible nonparticipants to have an adequate intake of iron. In comparison with higher-income nonparticipants, however, FSP participants were significantly less likely to consume adequate amounts of iron (91% vs. 95%) (figure 10). This pattern was observed for

[12]Data on mean intakes of iron (in mg.) are presented in table D-20 and the full distribution of intakes is presented in table

Figure 10—Percent of persons with adequate usual intake of iron



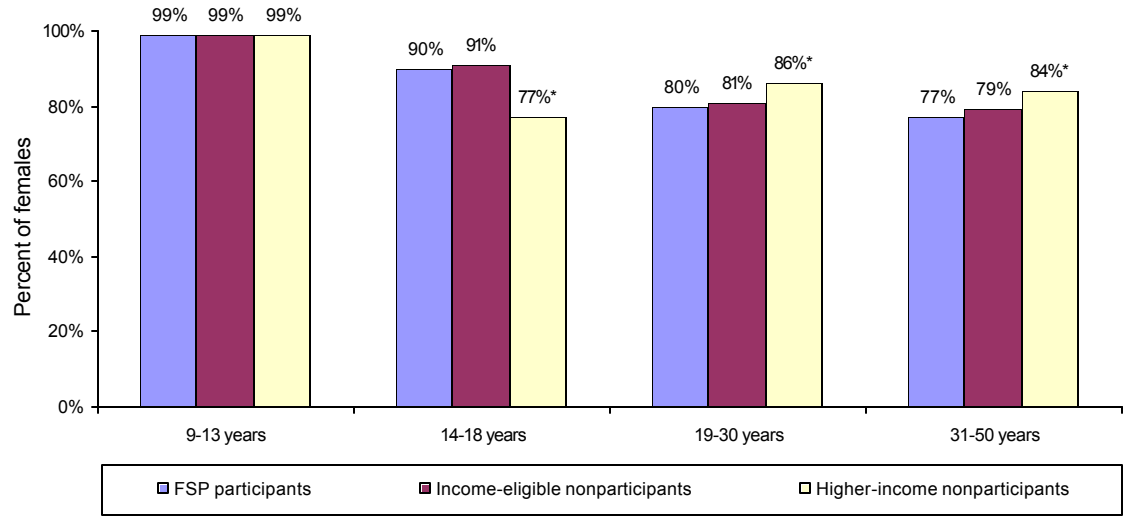
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

both males and females; however, the magnitude of the between-group difference was smaller for males (99% vs. 100%) than for females (88% vs. 91%).

Because of increased iron needs, menstruating females are at greater risk of consuming inadequate amounts of iron than other subgroups.[13] Among females in this age range (for the age groups used in this report, this includes 9-13-year-olds through 31-50-year-olds), there were no significant differences between FSP participants and income-eligible nonparticipants in the prevalence of adequate usual iron intakes (figure 11). In contrast, differences between FSP females and higher-income females were observed for all but the youngest age group. Among 14-18-year-old females, FSP participants were *more* likely than higher-income nonparticipants to have an adequate usual intake of iron (90% vs. 77%). In the two older age groups (19-30 years and 31-50 years), the trend was reversed, with FSP females being *less* likely than their higher-income counterparts to con-

[13]Because iron requirements for menstruating females are not normally distributed, it is not appropriate to use the EAR cut-point method to estimate the prevalence of inadequate intake. Instead, the full probability approach was used for these age groups (IOM, 2001). See appendix C.

Figure 11—Percent of menarche-aged females with adequate usual intake of iron



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

sume adequate amounts of iron (77-80% vs. 84-86%).

Zinc

Overall, 87 percent of all persons had adequate usual intakes of zinc (table D-24).[14] FSP participants were significantly less likely than either group of nonparticipants to have an adequate zinc intake (figure 12). Eighty percent of FSP participants had an adequate usual intake of zinc, compared with 83 percent of income-eligible nonparticipants and 88 percent of higher-income nonparticipants. The difference between FSP participants and income-eligible nonparticipants was concentrated among females, while the difference between FSP participants and higher-income nonparticipants was noted for both males and females.

Among males, 83 percent of FSP participants consumed an adequate amount of zinc, compared with 84 percent of income-eligible nonparticipants (difference was not statistically significant) and 91 percent of higher-income nonparticipants (difference was statistically significant). While not significant for males overall, the difference between FSP participants and income-eligible nonparticipants was statistically significant for both 9-13-year-olds and 31-50-year-olds (table D-24). In both instances, FSP males were significantly less likely than income-eligible males to have adequate intakes of zinc.

Among females, 78 percent of FSP participants had an adequate usual intake of zinc, compared with 82 percent of income-eligible nonparticipants and 86 percent of higher-income nonparticipants. Both of these differences were statistically significant. Among 14-18-year-old females, FSP participants were *more* likely than higher-income nonparticipants to have adequate usual intakes of zinc (87% vs. 64%) (table D-24). This is consistent with the patterns noted for this cohort of young women for usual intakes of both food energy and iron.

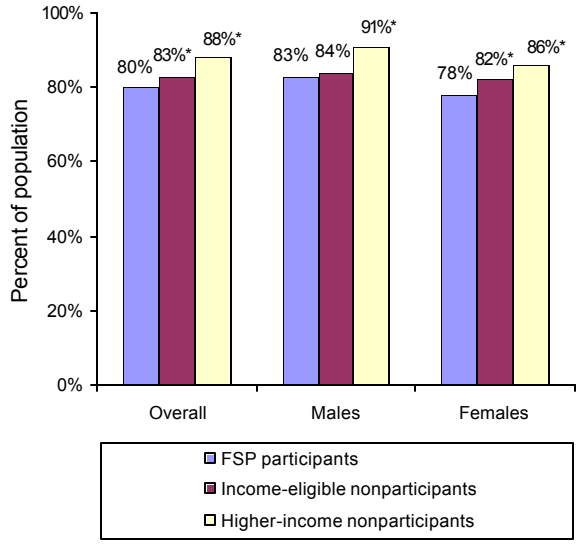
The oldest adults (71 years and older) were at the greatest risk of inadequate zinc intake and the risk was significantly greater for FSP participants than for higher-income nonparticipants. (The difference between FSP participants and income-eligible nonparticipants was not statistically significant). Among males 71 and older, 45 percent of FSP participants had an adequate usual intake of zinc, compared with 67 percent for higher-income nonparticipants (figure 13). Among females in this age group, 51 percent of FSP participants had an adequate usual intake of zinc, compared with 73 percent of higher-income nonparticipants.

Calcium

As noted in the introduction to this section, it is not possible to determine the percentage of individuals with adequate intakes of calcium because an EAR for calcium has not been established. Therefore, in comparing calcium

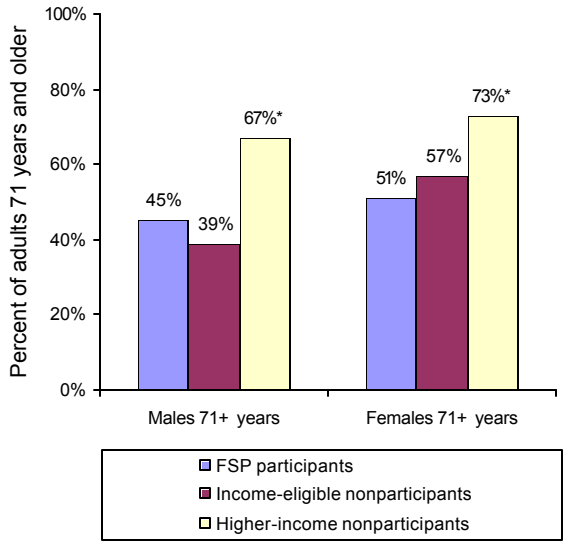
[14]Data on mean intakes of zinc (in mg.) are presented in table D-23 and the full distribution of intakes is presented in table D-25.

Figure 12—Percent of persons with adequate usual intake of zinc



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 13—Percent of adults 71 and older with adequate usual intake of zinc



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

intakes of FSP participants and nonparticipants, the analysis examined mean usual intakes, expressed as a percentage of the AI. In reviewing these data, readers should note that the AI is expected to exceed the actual needs of essentially all healthy individuals. Thus, mean intakes below the AI cannot be interpreted as indicative of inadequate intakes. On the other hand, populations with mean intakes that meet or exceed the population-specific AI can be assumed to have adequate intakes.

On average, the usual diets of persons 1 year and older provided 81 percent of the AI for calcium (table D-27).[15] Mean usual intake, as a percent of the relevant AI, was substantially greater for males than for females (93% vs. 70%) (statistical significance of gender-based difference not tested).

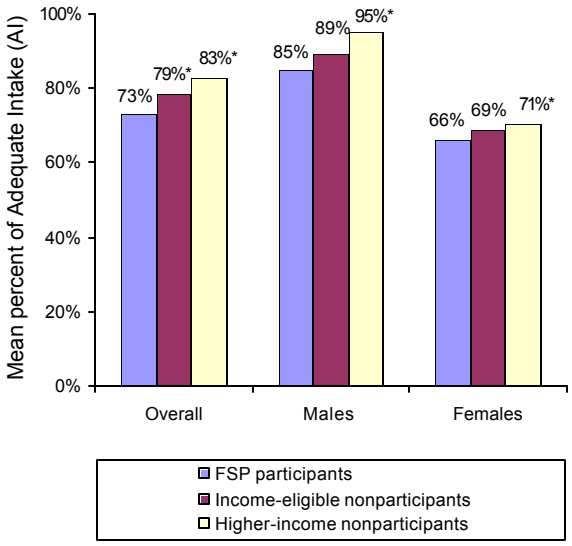
As a group, FSP participants consumed a significantly smaller percentage of the AI for calcium than either income-eligible nonparticipants or higher-income nonparticipants (73% vs. 79% and 83%) (figure 14). This general pattern was noted for both males and females; however, in the gender-specific analyses, only the differences between FSP participants and higher-income nonparticipants were statistically significant.

Consumption of Milk and Soft Drinks

Data on trends in the National food supply indicate that Americans are consuming substantially less milk and substantially more soft drinks than they were 25 years ago (Putnam and Gerrior, 1999). On average, Americans consume more soft drinks per day than milk. Concerns have been raised about the potential impact of this trend on calcium intake, particularly among children (Yen and Lin, 2002).

To determine whether the relative consumption of milk and soft drinks differed for FSP participants and nonparticipants, 24-hour recall data were used to compute the total grams of fluid

Figure 14—Mean usual intake of calcium as percent of Adequate Intake



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

[15]Data on mean intakes of calcium (in mg.) are presented in table D-26 and the full distribution of intakes is presented in table D-28.

milk consumed and the total grams of soft drinks consumed in the preceding 24-hour period. Both carbonated and noncarbonated soft drinks were included in the tabulations. Coffee and tea were not included. For ease in interpretation, gram weights were translated into 8-ounce equivalent servings.

The data, presented in tables D-29 to D-32, verify that soft drink consumption outstripped consumption of fluid milk in all but the youngest age groups (1-3-year-olds and 4-8-year-olds). However, there were few significant differences between FSP participants and either group of nonparticipants in this regard.

Across all age groups, milk consumption averaged less than one full (8-ounce) serving per day (table D-30). In contrast, average consumption of soft drinks was 2.0 8-ounce servings per day (table D-32). (Most soft drinks purchased in individual containers include more than 8 ounces). Males consumed less milk and more soft drinks than females (0.8 and 2.2 servings, respectively, for males vs. 0.6 and 1.7 servings for females) (statistical significance of gender-based differences not tested). Males between 14 and 30 years consumed the most soft drinks, averaging about 3 servings (or 24 ounces) per day.

These patterns were noted for FSP participants and both groups of nonparticipants. There were few significant differences between FSP participants and either group of nonparticipants, and there was no consistent pattern in the differences that were observed.

Use of Dietary Supplements

As noted earlier in this chapter, NHANES-III dietary intake data do not include nutrients provided by dietary supplements. To provide some insight into the potential contribution of dietary supplements, data on reported supplement use were analyzed. The available data do not permit a detailed analysis of this issue by specific nutrient, but provide some information on the prevalence of supplement use and general information on the number and types of supplements taken.

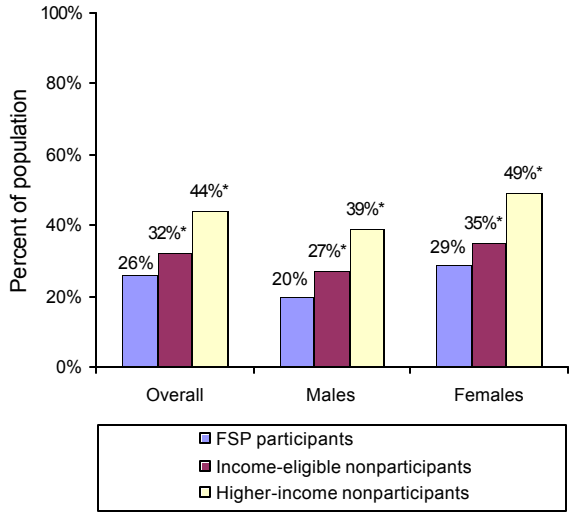
NHANES-III respondents were asked whether they used vitamin or mineral supplements during the preceding month. If supplements were used, respondents were asked to show the actual bottles or jars to interviewers so the type of supplement and associated dosage information could be recorded. Respondents were not asked specifically about use of other types of dietary supplements, such as herbs, botanicals, and fish oils; however, many respondents volunteered information about these types of supplements (CDC, 2001).

Overall, 40 percent of all individuals reported using some type of dietary supplement during the past month (table D-33). Supplement use was greater among females than males (44% vs. 35%) (statistical significance of gender-based difference not tested).

FSP participants were significantly less likely than either income-eligible nonparticipants or higher-income nonparticipants to use dietary supplements (figure 15). Slightly more than a quarter (26%) of FSP participants reported using dietary supplements. This compares with 32 percent of income-eligible nonparticipants and 44 percent of higher-income nonparticipants. This pattern was observed for both males and females.

Among persons who reported use of dietary supplements during the past month, 67 percent used one supplement, 19 percent used two supplements, and 14 percent used three or more supplements (table D-34). This pattern was observed for FSP participants and nonparticipants alike. FSP participants, however, were significantly less likely than either income-

Figure 15—Percent of persons using dietary supplements in the past month



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

eligible or higher-income nonparticipants to have used three or more dietary supplements (7% vs. 11% and 15%). These differences were largely attributable to differences among females.

The type of supplement used most often was a multivitamin-and-mineral combination (table D-36). Overall, 47 percent of supplement users reported using a multivitamin-and-mineral combination. Such supplements are likely to include vitamin C, iron, and zinc, three of the four minerals examined in the preceding section. Calcium is likely to be included as well, but generally at levels well below other minerals.

The multivitamin-and-mineral combination was the most common supplement used by FSP participants and both groups of nonparticipants and, for the population overall, there were no significant differences between groups in the relative use of this type of supplement. There were, however, differences between groups in the use of other types of supplements. Specifically, FSP participants were less likely than either income-eligible or higher-income nonparticipants to use a single-vitamin supplement (the third most common type of supplement overall) (18% vs. 28% and 31%). In addition, FSP participants were less likely than higher-income nonparticipants to use a multiple-vitamin (without minerals) supplement (the second most common type of supplement overall) (28% vs. 35%). All of these between-group differences were concentrated among females.

Chapter Three

Healthy Eating Index Scores and Usual Intake of Dietary Fiber

This chapter describes the nutritional quality of diets consumed by FSP participants and nonparticipants. The analysis focuses on the Healthy Eating Index (HEI), a summary measure of overall nutritional quality developed by USDA's Center for Nutrition Policy and Promotion (CNPP) (Kennedy et al., 1995). Usual intake of dietary fiber is also examined.

The analysis excludes infants and children under the age of 2 because the HEI is designed to assess the nutritional quality of diets consumed by individuals 2 years of age and older. In addition, to maintain consistency across analyses of diet-related measures, the age groups used in this chapter are the same as those used in assessing usual intakes of food energy and nutrients and differ from those used elsewhere in the report (see Chapter Two).

Healthy Eating Index Scores

The HEI provides an overall picture of the types and quantities of food individuals consume and their compliance with recommended dietary practices (Basiotis et al., 2002). The index includes an overall score as well as 10 component scores, all of which are weighted equally in the overall score. The 10 component scores measure different aspects of a healthy diet, relative to current public health recommendations. The HEI scores used in this analysis were computed by NCHS staff, following USDA guidelines, and were included in a public-release data file (NCHS, 2000).

Six of the component scores are food-based and evaluate food consumption in comparison with Food Guide Pyramid recommendations for intake of grains, vegetables, fruits, dairy, and meat, as well as the level of variety in the diet (USDA, CNPP, 1996). Four component scores are nutrient-based and assess compliance with *Dietary Guidelines for Americans* recommendations for daily intake of fat, saturated fat, cholesterol, and sodium (USDA and U.S. DHHS, 2000).[1] The specific reference standards used for each HEI component are described in the following discussions and are listed in appendix B. The appendix also provides technical details about how food consumption data needed to estimate HEI scores were derived from the NHANES-III 24-hour recall data.

The HEI data are based on the single 24-hour recall collected in NHANES-III. It was not possible to develop HEI scores that reflect usual intakes, as was done for the nutrients assessed in the preceding chapter. There were two major impediments to such an analysis. First, the HEI scoring algorithm is applied at the *individual* level but the adjustment technique used to generate estimates of usual nutrient intakes adjusts *distributions* (see appendix C) rather than individual observations. Second, the HEI includes six food-based components and it is not possible to generate estimates of usual food intake (as opposed to usual nutrient intake) because distributions of daily food intake tend to be highly skewed and to include a large proportion of zeros (Dodd, 2001).

[1]When the HEI was first developed, the standards for cholesterol and sodium were based on recommendations made in the NRC's *Diet and Health* report (NRC, 1989b) because the version of the *Dietary Guidelines* in effect at the time did not include quantitative standards for these dietary components (USDA and U.S. DHHS, 1995). Since that time, the NRC standards for sodium and cholesterol have been incorporated into both the Nutrition Facts section of food labels and the most recent version of the *Dietary Guidelines* (USDA and U.S. DHHS, 2000).

Although it was not possible to incorporate information on usual nutrient intakes into HEI scores, usual intake distributions were estimated for the nutrients considered in the HEI. These include the percentage of food energy (calories) from fat and saturated fat as well as total intakes of cholesterol and sodium. In addition, a separate analysis was conducted to compare HEI data and usual intake data on estimates of the percentage of individuals who consumed diets consistent with the various reference standards.

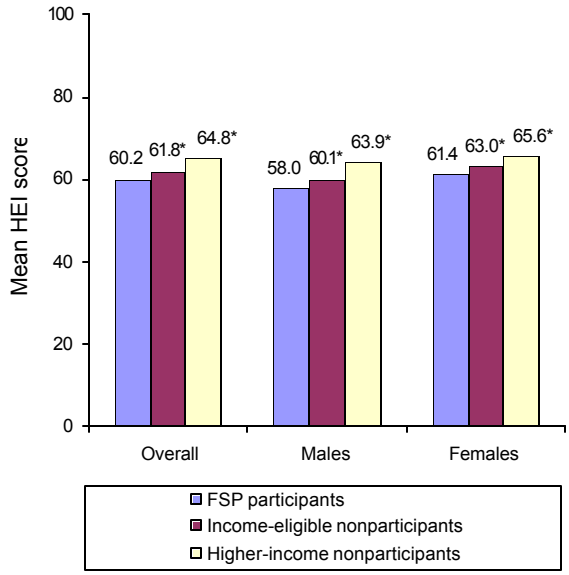
Because of the large number of variables examined and the additional comparisons presented (HEI data vs. usual intake data) in this chapter, the text discussion focuses on significant findings for the aggregate analysis (total population) and the gender-specific analyses. Information about significant between-group differences that may have been observed only for specific gender- and/or age-groups may be found in the detailed appendix tables referenced throughout the text.

Total HEI Scores

For all persons 2 years and older, the mean HEI score was 64.0, out of a possible 100 (table D-37). Females had slightly higher mean HEI scores than males (64.8 vs. 63.1) (significance of gender-based difference not tested). On average, FSP participants scored lower on the HEI than either income-eligible or higher-income nonparticipants (60.2 vs. 61.8 and 64.8) (figure 16). This pattern was observed for both males and females.

Researchers at CNPP have defined cutoffs that can be used to interpret what HEI scores say about overall diet quality (Basiotis et al., 2002). Total HEI scores over 80 imply a "good" diet. Scores between 51 and 80 indicate a "need for improvement." And scores below 51 are indicative of a "poor" diet. Based on these criteria, the majority of FSP participants and nonparticipants

Figure 16—Mean Healthy Eating Index (HEI) scores



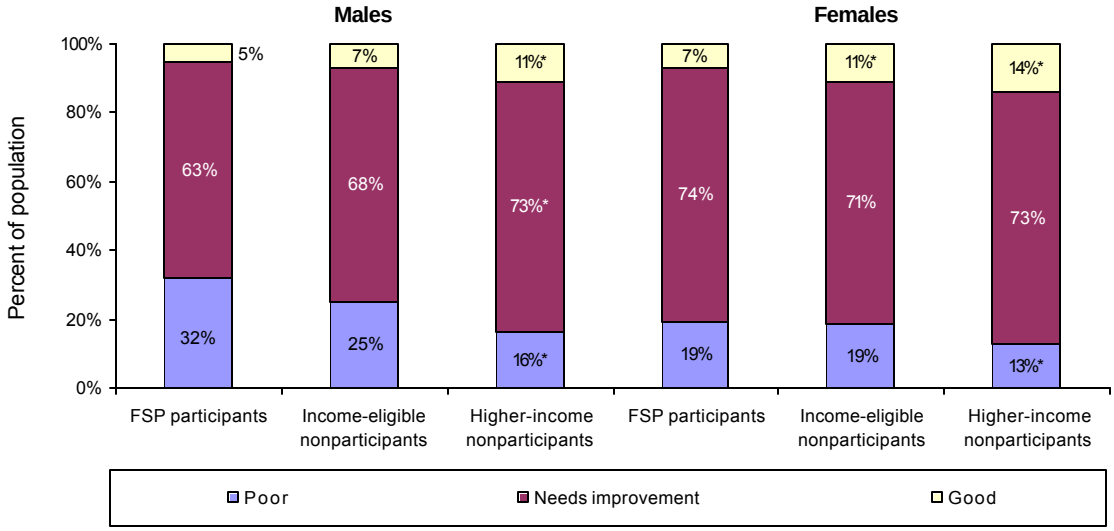
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

needed to make improvements in their diets. Overall, 72 percent of persons showed a need for improvement (table D-38). Twelve percent of individuals were consuming "good" diets and 16 percent were consuming "poor" diets.

Based on mean HEI scores, the nutritional quality of diets consumed by FSP participants and income-eligible nonparticipants were generally similar. The only significant difference noted for these two groups was a lower percentage of individuals with "good" diets in the FSP participant group (6% vs. 9%). In comparison with higher-income nonparticipants, however, FSP participants were more likely to consume "poor" diets (24% vs. 15%) and less likely to consume "good" diets (6% vs. 12%).

This general pattern of differences was noted for both males and females. Among males, however, the difference between FSP participants and income-eligible nonparticipants in the percentage consuming "good" diets was not significant (figure 17). In addition, male FSP participants were less likely than higher-income males to have diets that "need improvement." This is

Figure 17—Distribution of total HEI scores



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

because of differences between the two groups in the percentage of individuals with "good" and "poor" diets.

Between-group differences in diet quality were more dramatic for males than for females. FSP males were twice as likely as higher-income males to be consuming "poor" diets (32% vs. 16%). Comparable percentages for FSP females and higher-income females were 19 percent and 13 percent.

Across all three particpant/nonparticipant groups, the percentage of females who consumed "good" diets was consistently greater than the percentage of males. Similarly, the percentage of females with "poor" diets was consistently lower than the percentage of males. This difference was most pronounced in the FSP participant group, where 32 percent of males had "poor" diets, compared with 19 percent of females (statistical significance of gender-based differences not tested).

Food-based Component Scores

Standards for the food-based HEI component scores reflect daily goals for consumption of foods from each of the five good groups specified in the Food Guide Pyramid (USDA/CNPP, 1996). Serving guidelines are associated with recommended energy intake and vary by gender and age. Appendix B provides a detailed summary of the recommended numbers of daily servings from each group, by gender and age.

The HEI also includes a food-based score for dietary variety. Although the need for variety in the diet is a theme in all major public health nutrition guidelines, there are no specific quantitative recommendations. For purposes of the HEI, dietary variety is assessed by totaling the number of different types of food a person consumes in a day. Similar foods are grouped together and tabulations consider only food components that contribute at least one-half serving toward any food group. Fats, sweets, seasonings, and similar foods are not included (NCHS, 2000). A perfect score of 10 is assigned when a person consumes at least one-half serving of eight different foods.

Examination of the individual food-based HEI component scores provides information about specific shortcomings in the diets consumed by

FSP participants and nonparticipants. The following discussion reviews scores for each of the six food-based HEI components and presents summary data for both males and females.

Males

Data on food-based HEI component scores (tables D-40 to D-50) indicate that the food consumption goal that presented the most difficulty for males was the goal for fruit. Mean scores for the fruit component ranged from 2.7 to 3.8, compared with a perfect score of 10, and less than 20 percent of males in each group satisfied the HEI standard for fruit (or consumed the recommended number of fruit servings) (figures 18 and 19 and table D-44).

Although there was still room for improvement, the food consumption goals that were least problematic for males were the goals for meat and variety. Mean scores ranged from 7.2 to 7.5 for the meat component and from 6.6 to 8.2 for the variety component (figure 18 and tables D-48 and D-50). Moreover, for both components, more than 40 percent of the males in each group satisfied the HEI standard (figure 19 and tables D-48 and D-50).

Significant differences were noted between FSP males and income-eligible males for the grain and variety components of the HEI. In both cases, FSP males had significantly lower mean scores than income-eligible males (6.3 vs. 6.9 for the grain component and 6.6 vs. 7.2 for the variety component) (figure 18 and tables D-40 and D-50). In addition, for both of these components, significantly fewer FSP males than income-eligible males satisfied the HEI standard (23% vs. 28% for the grain component and 42% vs. 48% for the variety component) (figure 19 and tables D-40 and D-50).

Differences between FSP males and higher-income males were more widespread. FSP males had significantly lower mean scores than higher-income males on all of the food-based HEI components except meat (figure 18). The same pattern was observed for the percentage of males meeting HEI standards for the food-based components (figure 19).

Data on the mean number of servings consumed from each food group (tables D-40 to D-50) reveal that, in comparison with income-eligible males, FSP males consumed almost three-quarters (0.7) of a serving less grains per day. In addition, although there was no significant difference between the two groups in mean scores on the HEI meat component, FSP males consumed about a third of a serving more meat per day than income-eligible males.

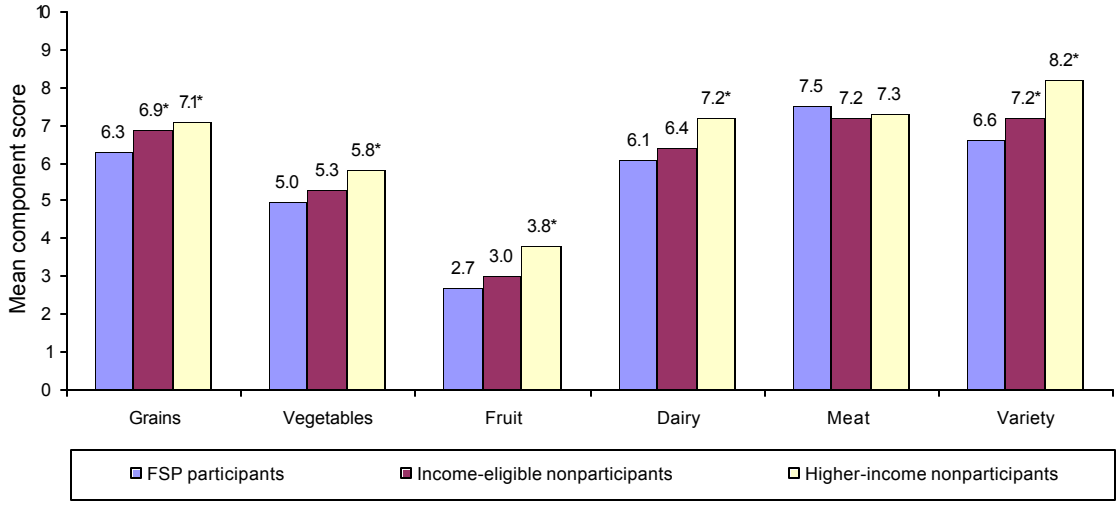
In comparison with higher-income males, FSP males consumed, on average, 1 less serving of grains, almost half (0.4) a serving less vegetables, and almost half (0.4) a serving less dairy foods per day. In addition, FSP males consumed about a third of a serving *more* meat per day than higher-income males.

Females

The food consumption goals that were most challenging for females were the goals for fruit and grains (figures 20 and 21 and tables D-40 and D-44). Mean scores for the fruit component ranged from 3.1 to 4.3 and only 13 to 22 percent of females consumed the recommended number of fruit servings per day. Mean scores for the grain component were notably higher (6.2 to 6.4); however, 20 percent or less of the females in each group consumed the recommended number of grain servings.

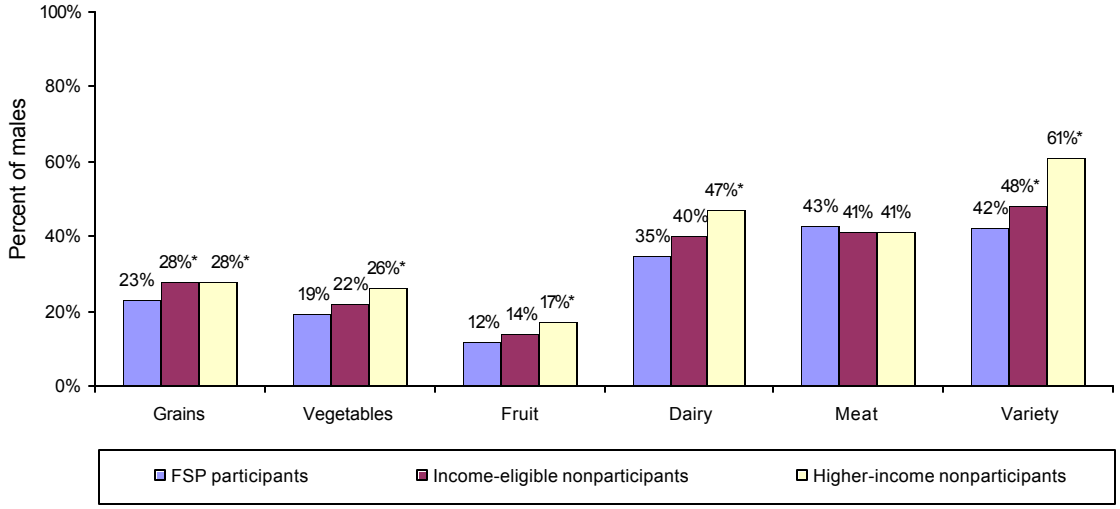
Like males, females did best in satisfying the HEI standard for variety. Mean scores for this component ranged from 6.5 to 7.7 and approximately 40 percent or more of the females in each group met the HEI standard for variety (figures 20 and 21 and table D-50).

Figure 18—Mean scores for HEI food-based components: Males



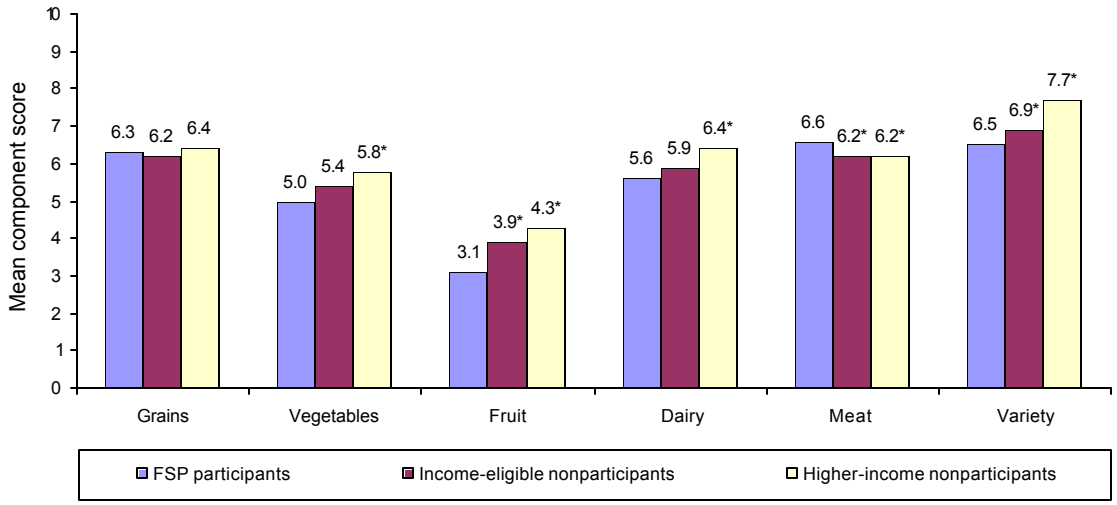
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 19—Percent of persons meeting HEI standards for food-based components: Males



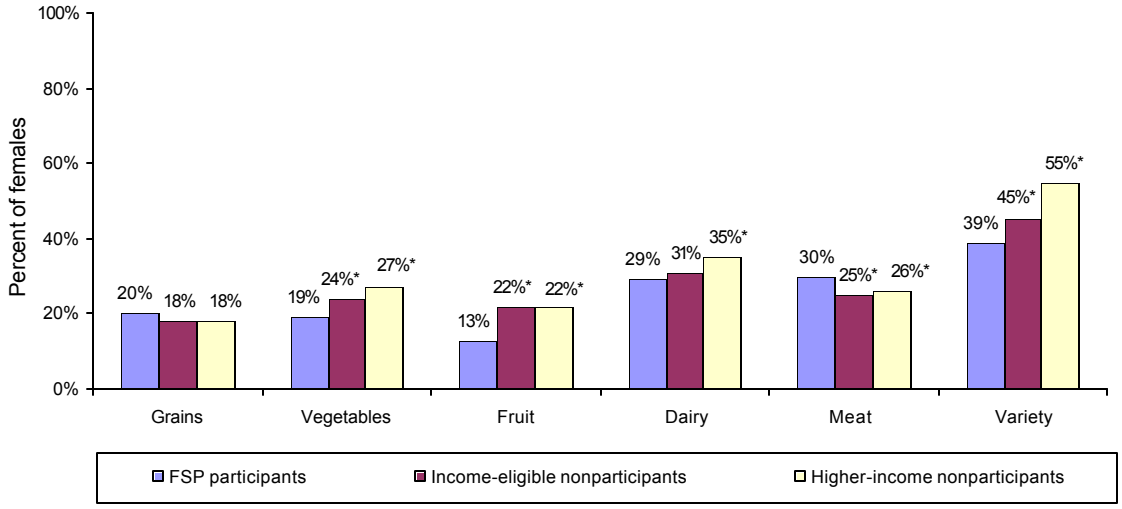
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 20—Mean scores for HEI food-based components: Females



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 21—Percent of persons meeting HEI standards for food-based components: Females



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Mean scores for female FSP participants and income-eligible females were significantly different for three of the six food-based HEI components: fruit, meat, and variety. For the fruit and variety components, FSP females had significantly lower mean scores than income-eligible females (3.1 vs. 3.9 for the fruit component and 6.5 vs. 6.9 for the variety component) (figure 20 and tables D-44 and D-50). In addition, for both of these components, significantly fewer FSP females than income-eligible females satisfied the HEI standard (13% vs. 22% for the fruit component and 39% vs. 45% for the variety component) (figure 21).

For the meat component, the difference between FSP females and income-eligible females ran in the opposite direction. That is, in comparison with income-eligible females, FSP females scored *higher*, on average, on the meat component (6.6 vs. 6.2) and were *more* likely to consume the recommended number of meat servings per day (30% vs. 25%) (figures 20 and 21 and table D-48).

Although there was no difference between FSP females and income-eligible females in mean score for the vegetable component of the HEI, the percentage of FSP females who met the HEI standard for vegetables was significantly lower than the percentage of income-eligible females (19% vs. 24%) (figure 21 and table D-42).

Mean HEI scores for FSP females and higher-income females were significantly different for all food-based components except grains (figure 20 and tables D-40 to D-50). The same pattern was observed for the percentage of females meeting HEI standards for food-based components (figure 21). With the exception of the meat component, mean scores were significantly lower for FSP females than for higher-income females, and FSP females were significantly less likely than higher-income females to satisfy HEI standards.

As noted in the preceding discussion of differences between FSP females and income-eligible females, the between-group difference for the meat component ran in the opposite direction. In comparison with higher-income females, FSP females scored *higher*, on average, on this component of the HEI (6.6 vs. 6.2) and were *more* likely to consume the recommended number of meat servings per day (30% vs. 26%) (figures 20 and 21).

Data on the mean number of servings consumed from each food group (tables D-40 to D-50) reveal that, in comparison with income-eligible females, FSP females consumed about a third of a serving less fruit per day and almost a quarter (0.2) of a serving *more* meat. In comparison with higher-income females, FSP females consumed almost half (0.4) a serving less vegetables, half a serving less fruit, and almost a quarter (0.2) of a serving less dairy foods per day. FSP females also consumed about a quarter (0.2) of a serving *more* meat per day than higher-income females.

Nutrient-based Component Scores

The four nutrient-based component scores of the HEI assess nutritional quality on the basis of how well individuals' diets conform to recommendations for intake of total fat, saturated fat, cholesterol, and sodium. The standards used in making these assessments are based on recommendations included in the *Dietary Guidelines for Americans* (USDA and U.S. DHHS, 2000).[2] The standards for total fat, saturated fat, and sodium are also included in the *Healthy People 2010* objectives (U.S. DHHS, 2000a). Standards for total fat and saturated fat are no more than 30 percent of total energy and less than 10

[2]As noted previously, HEI standards for cholesterol and sodium were initially based on recommendations made in the NRC's *Diet and Health* report (NRC, 1989b). These recommendations have subsequently been incorporated into the Nutrition Facts section on food labels and the most recent version of the *Dietary Guidelines*.

percent of total energy, respectively. The standard for cholesterol is no more than 300 mg. and the standard for sodium is no more than 2,400 mg.

Since the time HEI scores were computed by NCHS staff and the tabulations presented in this report were prepared, new reference standards have been established for fat (IOM, 2002b) and sodium (IOM, 2004) intake. These new standards are discussed in the text that follows. The IOM report in which the new standard for fat intake is defined also discusses intake of saturated fat and cholesterol, but does not define specific standards for these dietary components.

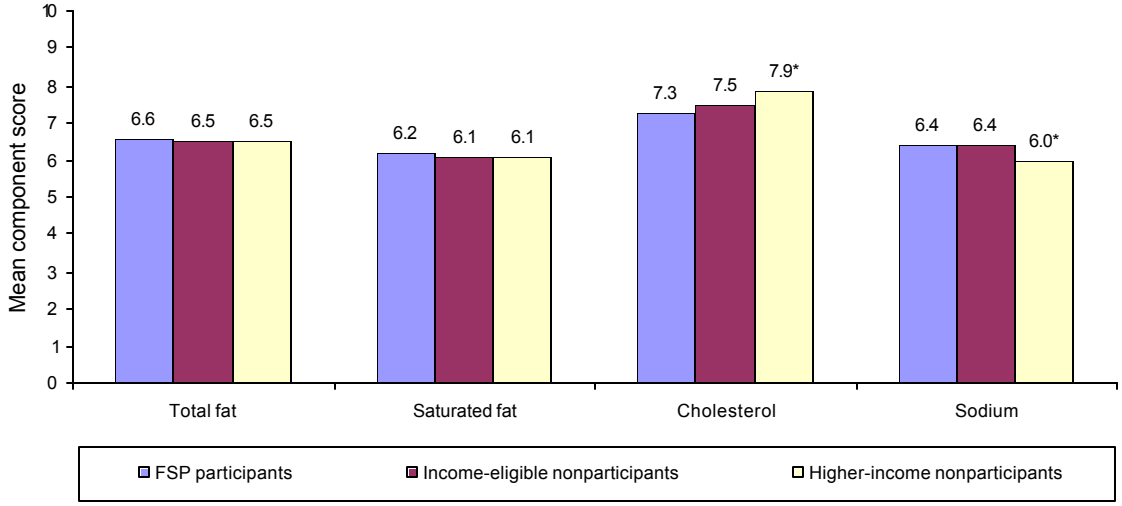
There were relatively few significant differences between FSP participants and nonparticipants in mean scores for the nutrient-based HEI components (figure 22 and tables D-52 to D-58). There were no significant differences between FSP participants and income-eligible nonparticipants on any of these measures. Significant differences were observed between FSP participants and higher-income nonparticipants for the cholesterol and sodium components. FSP participants had a significantly *lower* mean score for cholesterol (7.3 vs. 7.9) and a significantly *higher* mean score for sodium (6.4 vs. 6.0).

There was some variation in between-group differences by gender. Among males, the significant difference in mean scores for the cholesterol component was also observed for the FSP participant vs. income-eligible nonparticipant comparison (6.0 vs. 6.7) (table D-56). Among females, FSP participants had a *lower* mean score for the sodium component than either group of nonparticipants; the difference between FSP females and income-eligible females was statistically significant (7.1 vs. 7.6) (table D-58).

Percentage of Persons Meeting Standards for HEI Nutrients: Usual Intakes vs. 24-hour Intakes

As noted in the introduction to this chapter, usual intakes of fat, saturated fat, cholesterol, and sodium were estimated, as described in Chapter Two and appendix C, even though these data could not be incorporated into HEI scores. The following sections describe findings from

Figure 22—Mean scores for HEI nutrient-based components



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

the usual intake analyses, particularly with respect to estimates of the percentages of persons who satisfied the *Dietary Guidelines* recommendations considered in the HEI. These findings are contrasted with those from the HEI analysis. Estimates based on the usual intake analyses are more reliable than those available from the HEI because the former have been adjusted to remove within-person variation (see appendix C).

Percent of Energy from Total Fat

For all persons 2 years and older, mean usual intake of fat was high in comparison with the *Dietary Guidelines* recommendation that fat provide no more than 30 percent of food energy (calories). On average, fat contributed about 34 percent of usual energy intake (table D-60).[3]

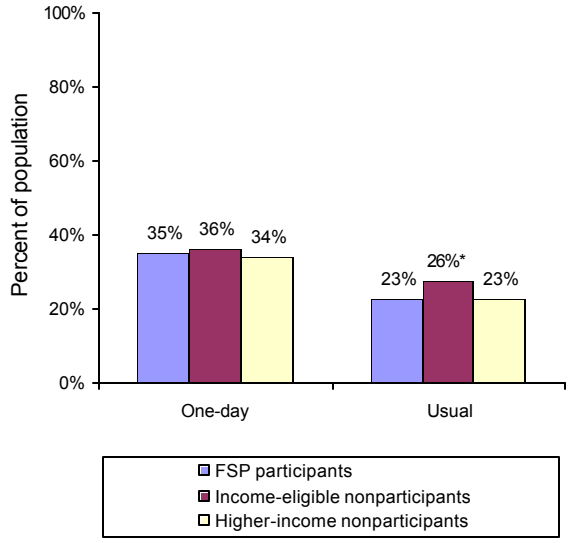
There was no significant difference between FSP participants and income-eligible nonparticipants in usual fat intake. FSP participants did, however, have a lower usual fat intake, overall, than higher-income nonparticipants (33.1% of total energy vs. 33.6%). This difference was concentrated among females.

According to the HEI data, which are based on a single 24-hour recall, 34 percent or more of individuals in each of the participant/nonparticipant groups satisfied the *Dietary Guidelines* recommendation for fat intake (figure 23 and table D-52). Moreover, the HEI data suggest that there were no statistically significant differences between FSP participants and either of the nonparticipant groups in this regard.

The more reliable estimates of usual fat intake indicate that the percentage of persons whose diets conformed to the *Dietary Guidelines* recommendation was actually lower than estimated in the HEI, ranging from 23 to 26

[3]The full distribution of usual fat intakes (as a percent of usual energy intake) is presented in table D-62.

Figure 23—Percent of persons meeting *Dietary Guidelines* recommendation for total fat: One-day (HEI) estimates vs. usual intake estimates



*Statistically significant difference from FSP participants at the .05 level or better.
Note: *Dietary Guidelines* recommendation has been replaced by AMDR (see text and appendix B).
Source: NHANES-III, 1988-94.

percent (figure 23 and table D-61). In addition, the usual intake data indicate that FSP participants were less likely than income-eligible nonparticipants to satisfy the *Dietary Guidelines* recommendation (23% vs. 26%). As noted above, this difference was primarily attributable to a difference among females (25% vs. 28%) (table D-61).

As mentioned in the introduction to this section, a new reference standard has been established for fat intake since the time HEI scores were computed by NCHS staff and the tabulations presented in this report were prepared. This standard, referred to as an Acceptable Macronutrient Distribution Range (AMDR), defines a range of acceptable intakes for different life-stage groups (IOM, 2002b). The AMDR for total fat, expressed as a percentage of total energy intake, is 30-40 percent for children 1 to 3 years, 25-35 percent for children 4 to 18 years, and 20-35 percent for all those 19 years and older. By comparison, the *Dietary Guidelines*

defines a more stringent upper bound for fat intake (no more than 30% of energy) and does not define a lower bound.

Overall, mean usual fat intakes of each of the age groups listed above fell within defined AMDRs (table D-60). This was true for all three participant/nonparticipant groups, overall, and, in general, for both males and females. The only exceptions were 4-8-year-old and 9-13-year-old males. In these age groups, males in the income-eligible nonparticipant group had mean fat intakes that exceeded the upper end of the AMDR. In the case of 4-8-year-old males, the difference between FSP participants and income-eligible nonparticipants was statistically significant and the mean for FSP participants was consistent with the AMDR (33.7% vs. 35.1%).

Distributions of usual fat intake provide some information about the percentage of persons whose usual fat intakes were consistent with the AMDR. The data suggest that usual intakes that fell outside the AMDR tended to be higher than the recommended range rather than lower. For all age groups other than 1-3-year-olds, the 5th percentile of the distribution of usual fat intake was greater than the defined lower bound, while the 75th percentile exceeded the upper bound (table D-62). This indicates that, overall, more than 25 percent of persons over the age of 3 had usual fat intakes that exceeded their AMDR. Among 1-3-year-olds, the pattern was reversed, with a greater percentage of persons having usual fat intakes that fell outside the *lower* bound of the AMDR. While few 1-3-year-olds had usual fat intakes that exceeded the AMDR (intake at the 95th percentile of the distribution was 39.8% of energy from fat), somewhere between 15 and 25 percent of 1-3-year-olds had usual fat intakes that were lower than the 30 percent lower bound of the AMDR (intakes at the 15th and 25th percentiles were, respectively, 28.5% and 30.1%).

There were a substantial number of statistically significant differences between FSP participants and the two groups of nonparticipants in the distribution of usual fat intakes. The pattern of observed differences suggests that, in several subgroups (4-8-years, 14-18-years, 31-50-years, and 71 years and older), FSP participants were more likely than one or both groups of nonparticipants to have usual fat intakes that did not exceed the upper bound of the relevant AMDR. For all of these age groups, usual fat intakes at the 95th percentile were significantly lower for FSP participants than for one or both groups of nonparticipants and FSP participant intakes fell within the AMDR while nonparticipant intakes exceeded the upper bound.

A different pattern was observed for 1-3-year-olds. Although, as noted above, the data suggest that few children in this age group had usual fat intakes that exceeded the upper end of the AMDR, the evidence suggests that this was more likely to occur for FSP participants that for either group of nonparticipants (usual intakes at the 95th percentile were 41.7% vs. 39.4% and 39.0%, compared with an AMDR of 30-40%). At the opposite end of the distribution, the evidence suggests that 1-3-year-old FSP participants were *less* likely than income-eligible nonparticipants and *more* likely than higher-income nonparticipants to have usual fat intakes that fell within the lower bound of the AMDR (usual intakes at the 15th percentile were 29.2% vs. 31.2% and 27.6%).

Percent of Energy from Saturated Fat

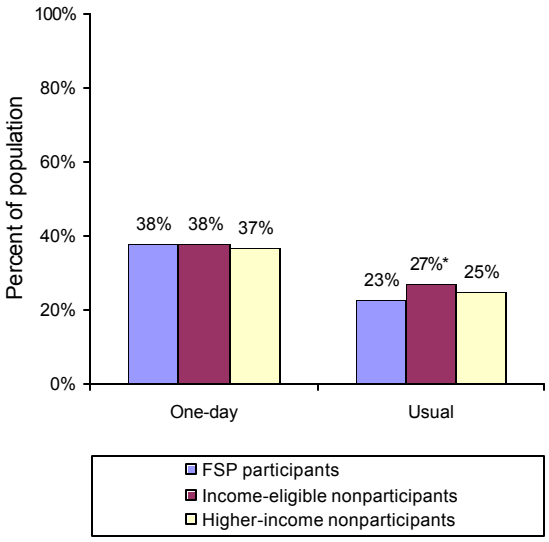
On average, usual intake of saturated fat exceeded the *Dietary Guidelines* recommendation of less than 10 percent of energy. In all three participant/nonparticipant groups, saturated fat contributed roughly 11 percent of usual energy intake (table D-63).[4] There were no significant

[4]The full distribution of usual saturated fat intakes (as a percent of usual energy intake) is presented in table D-65.

between-group differences, overall or by gender, in the mean usual intake of saturated fat.

According to the HEI data, roughly 38 percent of FSP participants and each group of nonparticipants satisfied the *Dietary Guidelines* recommendation for saturated fat (figure 24 and table D-54). The more reliable estimates of usual intake indicate that, for all groups, the percentage of persons who satisfied the *Dietary Guidelines* recommendation for saturated fat was substantially lower, ranging from 23 to 27 percent (figure 24 and table D-64). Moreover, estimates of usual saturated fat intake reveal that FSP participants were significantly less likely than income-eligible nonparticipants to meet the *Dietary Guidelines* recommendation for saturated fat (23% vs. 27%). This difference was largely attributable to a difference among females (table D-64). In fact, among females, FSP participants were less likely than either group of nonparticipants to meet the recommendation for saturated fat intake (24% vs. 29% and 28%).

Figure 24—Percent of persons meeting *Dietary Guidelines* recommendation for saturated fat: One-day (HEI) estimates vs. usual intake estimates



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Cholesterol

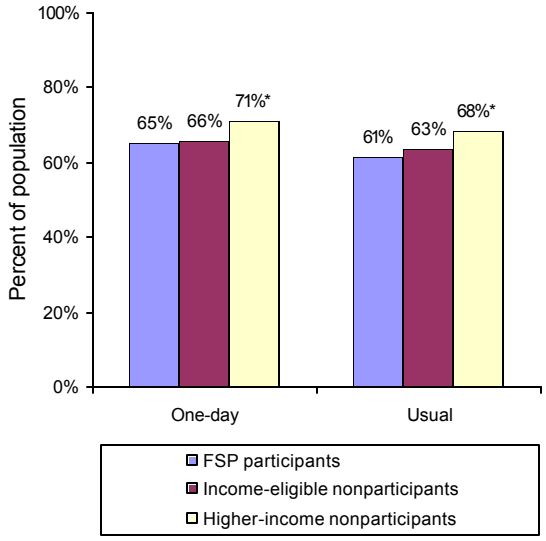
The *Dietary Guidelines* recommend a maximum of 300 mg. of cholesterol per day. On average, usual cholesterol intake (271 mg.) was consistent with this recommendation (table D-66).[5] This was true for all three participant/nonparticipant groups, overall, as well as for females analyzed separately. However, mean usual cholesterol intakes were consistently greater for males than for females (327 mg. vs. 221 mg., overall), and mean usual intakes of males in all three groups exceeded the 300 mg. maximum.

The mean usual cholesterol intake of FSP participants did not differ significantly from the mean usual cholesterol intake of income-eligible nonparticipants. However, the mean usual intake of FSP participants was significantly greater than the mean usual intake of higher-income nonparticipants (291 mg. vs. 267 mg.). Usual mean intakes of both groups were consistent with the *Dietary Guidelines* recommendation. This general pattern of between-group differences was observed for both males and females.

The HEI data and the usual intake data lead to comparable conclusions about the percentage of persons whose usual diets were consistent with the *Dietary Guidelines* recommendation for cholesterol. Both data sets indicate that more than 60 percent of persons in the FSP participant group and in each of the nonparticipant groups met the recommendation (figure 25 and tables D-56 and D-67). In addition, both analyses led to comparable conclusions about the statistical significance of differences between FSP participants and the two groups of nonparticipants in the percentage of persons who consumed no more than 300 mg. of cholesterol. There was no significant difference between FSP participants and income-eligible nonparticipants in this regard. However, FSP participants were signifi-

[5]The full distribution of usual cholesterol intakes is presented in table D-68.

Figure 25—Percent of persons meeting *Dietary Guidelines* recommendation for cholesterol: One-day (HEI) estimates vs. usual intake estimates



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

cantly less likely than higher-income nonparticipants to have usual cholesterol intakes that were consistent with the *Dietary Guidelines* recommendation.

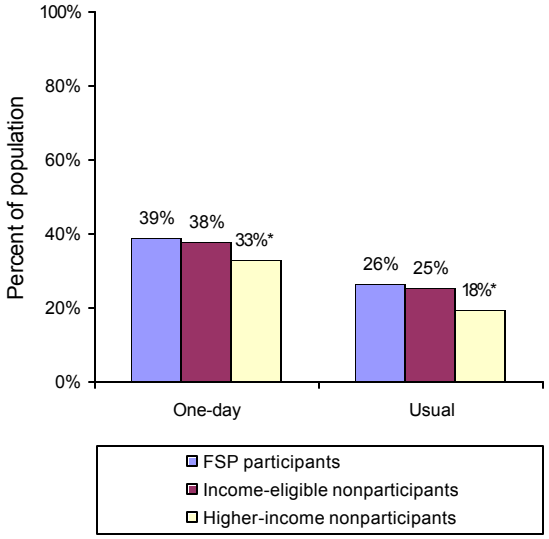
Sodium

The *Dietary Guidelines* recommend that daily intake of sodium not exceed 2,400 mg. On average, usual sodium intake (3,463 mg.) exceeded this recommendation (table D-69).[6] Males had consistently greater usual sodium intakes than females (4,076 mg. vs. 2,897 mg.). However, mean usual intakes of both males and females in all three participant/nonparticipant groups exceeded the *Dietary Guidelines* recommendation.

Overall, there was no significant difference between the mean usual sodium intakes of FSP participants and income-eligible nonparticipants. In comparison with higher-income nonparticipants, however, the mean usual sodium intake of FSP participants was significantly lower. The general patterns observed in the aggregate analysis were also observed for males; however, the difference between FSP participants and higher-income nonparticipants was not statistically significant. Among females, mean usual intakes of both groups of nonparticipants were lower than the mean usual intake of FSP participants, but only the difference between FSP participants and income-eligible nonparticipants was statistically significant.

According to the HEI data, between 33 and 39 percent of FSP participants and nonparticipants satisfied the recommendation for sodium intake (figure 26 and table D-58). These data also indicate that FSP participants were significantly more likely than higher-income nonparticipants to satisfy the sodium recommendation (39% vs. 33%). This difference was observed for males but not for females (table D-58).

Figure 26—Percent of persons meeting *Dietary Guidelines* recommendation for sodium: One-day (HEI) estimates vs. usual intake estimates



*Statistically significant difference from FSP participants at the .05 level or better.
Note: *Dietary Guidelines* recommendation has been replaced by UL (see text and appendix B).
Source: NHANES-III, 1988-94.

[6]The full distribution of usual sodium intakes is presented in table D-71.

The more reliable data on usual sodium intakes indicate that the percentage of persons who satisfied the *Dietary Guidelines* recommendation for sodium intake was actually lower than estimated in the HEI, ranging from 18 percent to 26 percent (figure 26 and table D-70). FSP participants were significantly more likely than higher-income nonparticipants to meet the recommendation (26% vs. 18%). This between-group difference was observed for both males and females (table D-70).

As noted previously, new reference standards have been established for sodium intake since the time HEI scores were computed by NCHS staff and the tabulations presented in this report were prepared. Standards have been defined for both Adequate Intake (AI) and Tolerable Upper Intake Levels (UL) (IOM, 2004). Given that the major concern about sodium is the potential for excess consumption, the standard of greatest interest for this analysis is the UL.[7] The UL is the highest intake likely to pose no adverse health effects; chronic consumption above the UL may increase risk of adverse effects. In the case of sodium, the primary potential adverse effect is the development of high blood pressure (IOM, 2004). ULs for sodium are lower than the *Dietary Guidelines* recommendation, especially for the youngest age groups. The ULs are 1,500 mg. for 2-3-year-olds, 1,900 mg. for 4-8-yearolds, 2,200 mg. for 9-13-year-olds, and 2,300 mg. for all those 14 years and older.

Mean usual sodium intakes of all age groups exceeded defined ULs (table D-69). This was true for FSP participants and both groups of nonparticipants in the aggregate analysis as well as in the gender-specific analyses. Only two subgroups had mean usual intakes that did not exceed their defined UL. These were female income eligible nonparticipants 51-70 years and 71 years and older (mean usual sodium intakes of 2,292 mg. and 2,247 mg., respectively, compared with a UL of 2,300 mg.). Female FSP participants 71 and older had a mean usual sodium intake that came close to the UL (2,313 mg.).

Distributions of usual sodium intake provide some information about the percentage of persons whose usual sodium intakes were consistent with the UL. The data indicate that, for persons 2 to 30 years of age, fewer than 10 percent had usual sodium intakes that did not exceed the UL. In these age groups, usual intakes at the 10th percentile were greater than the UL (table D-71). The percentage of persons with usual sodium intakes that were consistent with the UL increased with age. For 31-50-year-olds, usual intake exceeded the UL at the 15th percentile. For 51-70-year-olds and 71 years and older, the threshold was crossed at the 25th and 50th percentiles, respectively.

There were few significant differences between FSP participants and income-eligible nonparticipants in the distribution of usual sodium intake. In contrast, there were many more significant differences in the distributions of usual sodium intakes of FSP participants and higher-income nonparticipants. These differences indicate that, among 2-3-year-olds, 4-8-year-olds, and 14-18-year-olds, FSP participants were significantly less likely than higher-income nonparticipants to have usual sodium intakes consistent with the UL. In all of these age groups, usual intakes at the 10th and/or 5th percentiles were significantly higher for FSP participants than for higher-income nonparticipants. In addition, FSP participant intakes exceeded the UL, while higher-income participant intakes did not.

The trend was reversed for older age groups. For all subgroups of adults 19 and older, FSP

[7]AIs for sodium range from a minimum of 1,000 mg. (1.0 gm.) for 1-3-year-olds to a maximum of 1,500 mg. (1.5 gm.) for persons 9 to 50 years of age. Given the mean usual intakes of sodium described in the text and shown in table D-69, sodium intakes of all age groups of FSP participants and nonparticipants can be assumed to be "adequate."

participants were significantly more likely than higher-income nonparticipants to have usual sodium intakes that were consistent with the UL. In these subgroups, usual intakes at the 5th percentile were significantly lower for FSP participants than for higher-income nonparticipants and FSP participant intakes were consistent with the UL. As age increased, the extent of the between-group difference increased. Among adults 71 years and older, significant differences that affect conclusions about the UL were noted at the 25th percentile of the distributions.

It is important to note that NHANES-III estimates of sodium intake include only sodium found in foods and beverages reported by respondents. Sodium from table salt is not included in nutrient calculations because its use cannot be measured (estimated) reliably. To get some insight into additional sources of sodium, the NHANES-III dietary intake interview included a question about use of table salt.

Fifty-one percent of persons reported using table salt (table D-72). Use of table salt was more common among males than females (54% vs. 49%) and use decreased with age after 14-18 years (males) or 19-30 years (females). Overall, there were no significant differences between FSP participants and either group of nonparticipants in the use of table salt. Among males, however, FSP participants were more likely than higher-income nonparticipants to repot use of table salt (61% vs. 53%). This suggests that the actual size of the difference between FSP participant males and higher-income nonparticipant males, in terms of both mean usual sodium intake and the percentage of persons consuming less than 2,400 mg. of sodium per day, may be smaller than observed in this analysis.

Usual Intake of Dietary Fiber

On average, usual daily intake of dietary fiber was 15.9 gm. (table D-73).[8] Mean usual intake of dietary fiber was greater for males than females (18.2 gm. vs. 13.8 gm.) (statistical significance of gender-based difference not tested).

FSP participants usually consumed significantly less dietary fiber, on average, than either income-eligible nonparticipants or higher-income nonparticipants (14.4 gm. vs. 15.4 gm. and 16.1 gm.). These differences were largely attributable to differences among females (12.6 gm. vs. 13.5 gm. and 13.9 gm.)

At the time the analyses presented in this report were completed, there was no established standard for intake of dietary fiber. To assess the adequacy of fiber intakes, the analysis used a standard referred to as the "age-plus-five rule." This standard, originally developed by Williams et al. (1995), was adapted by the American Heart Association (AHA) (Van Horn, 1997) and has been used in previous research (Gleason and Suitor, 2001). Recommended intake of dietary fiber (in gm.) is equivalent to age in years plus five, up to a maximum of 25 gm. Overall, less than a quarter (22%) of all persons had usual intakes of dietary fiber that were consistent with this standard (table D-74).

The difference between males and females on this measure was striking. Thirty-one percent of males had usual intakes of dietary fiber that were consistent with the standard, compared with 14 percent of females (statistical significance of gender-based difference not tested).

Overall, FSP participants were no more or less likely than either group of nonparticipants to

[8]The full distribution of usual fiber intakes is presented in table D-75.

meet the "age-plus-five" standard for dietary fiber (21% vs. 23% and 22%). Among females, however, FSP participants were more likely to meet this standard than higher-income nonparticipants (15% vs. 13%).

Since this analysis was completed, AIs have been defined for fiber (IOM, 2002b). The AIs have been defined for *total* fiber, which includes dietary fiber as well fructo-oligosaccharides, compounds which are destroyed in the current analytic methods used to quantitate fiber in foods (IOM, 2002b). Although fructo-oligosaccharides are assumed to make up a relatively small percentage of total fiber, it is estimated that, on average, American adults consumed approximately 5.1 gm. more fiber per day than estimated in the most recent Continuing Survey of Food Intakes by Individuals (CSFII) because CSFII data, like the data used in this analysis, include only dietary fiber (IOM, 2002b).

The AIs for total fiber are shown in appendix B. In comparison with the standard used in this analysis, the AIs are higher for all males, regardless of age, and for all females younger than 20. For females 20 to 50 years, the AI is equivalent to the standard used in this analysis (25 gm.). For females 51 to 70 years, the AI is slightly lower (21 gm.).

As noted in Chapter Two, AIs cannot be used to assess the prevalence of adequate intakes, so assessment of usual intakes must focus on comparison of mean intakes to gender-and-age appropriate AIs. Mean usual intakes of all age-specific subgroups (overall and by gender) fall short of the new AIs (table D-73). Some of this disparity is due to the difference in fiber data (dietary fiber vs. total fiber). However, even if one were to assume that mean usual intakes of dietary fiber were actually 5 gm. higher (the average increment estimated for American adults, overall, to account for fructo-oligosaccharides, as described above), mean usual intakes of all age-specific subgroups would still fall short of the AI.

The differences observed between FSP participants and nonparticipants in mean usual intakes of dietary fiber are real, regardless of which reference standard is used. However, the advent of the AIs for fiber means that results of the analysis that compared usual intakes of dietary fiber to the "age-plus-five" reference standard must be interpreted with caution. These estimates cannot be interpreted as valid estimates of the percentage of persons consuming adequate amounts of dietary fiber.

Chapter Four

Other Measures of Nutritional Status

This chapter focuses on non-dietary measures of nutritional status, namely, body weight, nutrition-related biochemistries, and bone density. For adults, information on weight status is supplemented with information on reported weight gain over time, self-perceived weight status, interest in losing weight, and weight loss attempts over the past year. The section on nutrition-related biochemistries provides information on the prevalence of iron deficiency, iron-deficiency anemia, anemia, low levels of red blood cell folate and serum vitamin B_{12}, and abnormal levels of total cholesterol and related measures. The last section in the chapter presents data on the prevalence of reduced and severely reduced bone mass. The latter condition is indicative of osteoporosis. Because of age-based variations in NHANES-III data collection protocols, all measures were not available for all individuals.

Weight Status

The prevalence of overweight and obesity has increased dramatically since the time the first Health Examination Survey (a precursor to the present NHANES survey) was conducted in 1963-65 (Flegal et al., 1998). This is especially true among children and adolescents, for whom the prevalence of overweight has more than doubled (Troiano and Flegal, 1998). Being overweight or obese significantly increases the chances of developing many diseases, including type 2 diabetes, high blood pressure, coronary heart disease, stroke, gallbladder disease, respiratory problems, osteoarthritis, sleep apnea, and some types of cancer (U.S. DHHS, 2000a). *Healthy People 2010* includes goals to decrease the proportion of children and adolescents who are overweight, to increase the proportion of adults who are at a healthy weight, and to decrease the proportion of adults who are obese (U.S. DHHS, 2000a).

The approach to defining overweight and obesity differs for children and adults. Therefore, the following sections present data separately for children ages 2 to 19 and adults aged 20 and older. The section on children also includes information on the percentage of children who were underweight and the percentage with retarded linear growth (short stature).

Children 2-19 Years

Classifying children as overweight is fundamentally different from classifying adults as overweight (Cole, 2001). Adults have traditionally been classified as overweight on the basis of life insurance mortality data and data relating weight status to morbidity and mortality (Troiano and Flegal, 1998). Such criteria cannot be used to define overweight in childhood, however, because childhood mortality is not associated with weight and weight-related morbidity in childhood is too low to define meaningful cutoffs (Barlow and Dietz, 1998). Therefore, the approach used to classify children as overweight relies on comparing children's weights and heights to appropriate reference populations.

A series of growth charts has been developed by the CDC for different anthropometric measures and different age groups (Kuczmarski et al., 2002). Three different growth charts can be used to assess weight status in children: the Body Mass Index (BMI)-for-age chart (designed for ages 2 and over), the weight-for-length chart (birth through 3 years), and the

weight-for-height chart (2-5 years). Because this analysis included children up to 19 years of age, the BMI-for-age chart was used. Consequently, children under the age of 2 were excluded from the analysis.[1] BMI is a measure of the relationship between height and weight that is the commonly accepted index for classifying adiposity (or fatness) (CDC, 2003).[2]

In assessing children's weight status, use of the word "obesity" is avoided because of potential negative connotations (CDC, 2003). Instead, assessment of weight status focuses on the prevalence of overweight (defined as BMI-for-age at or above the 95th percentile), the prevalence of being at risk of overweight (defined as BMI-for-age between the 85th and 95th percentiles), and the prevalence of underweight (defined as BMI-for-age below the 5th percentile) (see appendix B).

Prevalence of Overweight and Being at Risk of Overweight

Overall, 10 percent of children 2 to 19 years of age were overweight, based on BMI-for-age, and 13 percent were at risk of overweight (table D-77). The prevalence of both conditions was comparable for males and females, overall, and generally increased with age.

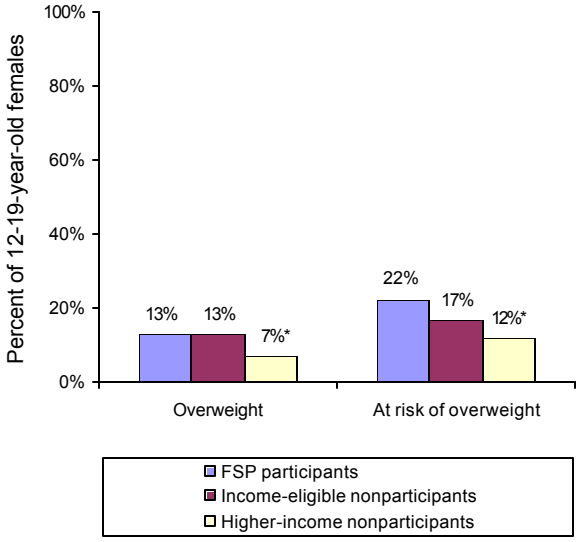
There were no statistically significant differences between FSP participants and income-eligible nonparticipants in mean BMI, the prevalence of overweight, or the percentage of children at risk of being overweight (tables D-76 and D-77). In comparison with higher-income children, however, FSP children had a significantly greater mean BMI (19.8 vs. 19.2) and were significantly more likely to be overweight (12% vs. 9%). These differences were concentrated among 12-19-year-old females. FSP females in this age group had a significantly greater mean BMI than comparably aged higher-income females (23.7 vs. 21.8). In addition, they were almost twice as likely to be overweight (13% vs. 7%) and almost twice as likely to be at risk of overweight (22% vs. 12%) (figure 27).

Prevalence of Underweight

Overall, only 4 percent of children between 2 and 19 years were underweight (BMI-for-age below the 5th percentile) (table D-78). This prevalence is within the expected range given that, by definition, 5 percent of healthy children would be expected to fall below the 5th percentile due to normal biological variation (U.S. DHHS, 2000a).

There was no statistically significant difference between FSP participants and income-eligible nonparticipants in the percentage of children who were underweight. In comparison with higher-income children, however, FSP children were significantly less likely to be underweight (3% vs. 4%). This difference was concentrated among 3-5-year-old males. In this subgroup, the

Figure 27—Percent of females 12-19 years who were overweight or at risk of overweight



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

[1]The second volume in this series (Cole and Fox, 2004a) includes data for 1-year-old children.

[2]BMI is equal to [weight in kilograms] ÷ [height in meters]^2.

prevalence of underweight among FSP participants was less than half that of higher-income nonparticipants (3% vs. 7%).

Prevalence of Growth Retardation

Young children are susceptible to growth problems that can affect stature. Retardation of linear growth (short stature) in preschool children may indicate inadequate maternal weight gain or other prenatal problems, dietary inadequacy, infectious or chronic disease, or poor healthcare (U.S. DHHS, 2000a). The *Healthy People 2010* objectives include a goal to decrease the prevalence of linear growth retardation among low-income children under the age of 5. Retarded growth is defined as height-for-age below the 5th percentile (U.S. DHHS, 2000a).

Growth retardation occurred with roughly the same frequency as underweight (4% overall) (table D-78). This is within the realm of normal variation, as discussed above. There was no significant difference between FSP participants and income-eligible nonparticipants in the prevalence of growth retardation. However, FSP children were twice as likely as higher-income nonparticipant children to have retarded linear growth (6% vs. 3%). This pattern was observed for both males and females and was concentrated among 3-5-year-olds and 12-19-year-olds.

Adults 20 Years and Older

For adults, overweight and obesity are defined on the basis of BMI, with no differentiation for different age groups. A healthy weight is defined as a BMI that is at least 18.5 but less than 25. Overweight is defined as a BMI of 25.0 to 29.9, and obesity is defined as a BMI of 30 or more. A BMI below 18.5 indicates underweight.

Mean Body Mass Index

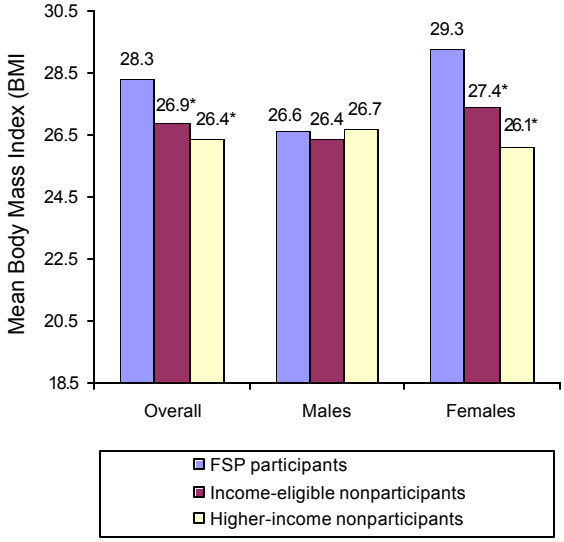
Overall, adults had a mean BMI of 26.6 (table D-79). This indicates that, on average, adults were overweight. Mean BMIs were similar for males and females (26.7 and 26.5). In addition, for both males and females, mean BMI tended to increase with age between ages 20 and 59 and then decrease with age after age 60 (statistical significance of age-based differences not tested).

Adult FSP participants had a significantly greater mean BMI than either income-eligible nonparticipants or higher-income nonparticipants (28.3 vs. 26.9 and 26.4) (figure 28 and table D-79). The differences between groups were entirely attributable to differences among females (29.3 vs. 27.4 and 26.1). In gender-and-age-specific analyses, differences between FSP females and income-eligible females were observed for three specific age groups. Differences between FSP females and higher-income females were statistically significant for all but the oldest age group (80 and older) (table D-79).

Distribution of Body Weight

In keeping with their greater mean BMI, female FSP participants were significantly *less* likely

Figure 28—Mean Body Mass Index: Adults



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

than either income-eligible females or higher-income females to be at a healthy weight and significantly *more* likely to be obese (figure 29 and tables D-80 and D-81). Only 28 percent of adult female FSP participants were at a healthy weight, compared with 36 percent of income-eligible females and 49 percent of higher-income females. Moreover, 42 percent of adult female FSP participants were obese, compared with 30 percent of income-eligible females and 22 percent of higher-income females.

The pattern observed for adult males was notably different. Among males, there were no statistically significant differences between FSP participants and income-eligible nonparticipants in the distribution of body weight (figure 30 and tables D-80 to D-83). In comparison with higher-income adult males, however, FSP adult males were *more* likely to be at a healthy weight (44% vs. 37%) and *less* likely to overweight (29% vs. 42%).

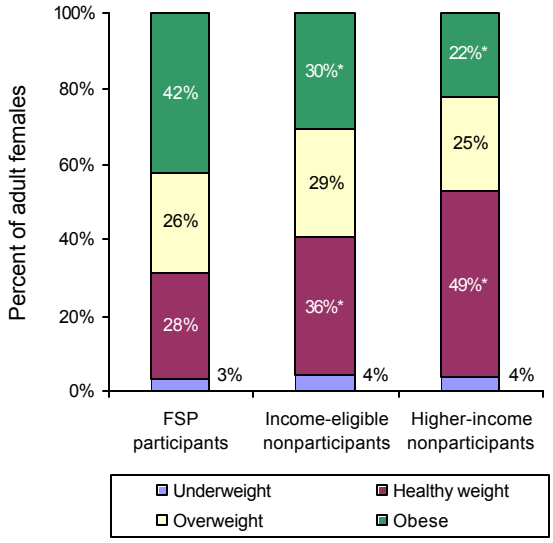
Weight Change Since Age 25 and in the Past 10 Years

To assess patterns of weight change during adulthood, NHANES-III respondents 25 and older were asked to report how much they weighed at age 25. Respondents 36 and older were asked how much they weighed 10 years ago, and all respondents 17 and older were asked to report their maximum lifetime weight. These responses were compared to reports of current weight to obtain a self-reported history of weight gain/loss for each individual.

Weight Change Since Age 25

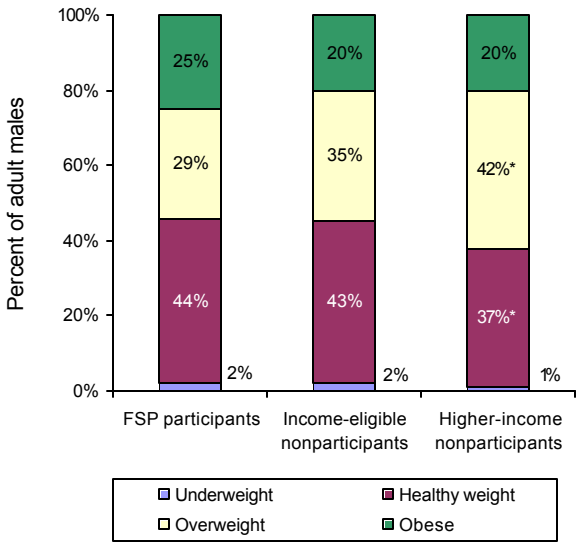
Adults 26 and older reported an average weight gain of 20.5 pounds since age 25 (table D-84). The reported mean weight gain was greater for women than for men (22.3 pounds vs. 18.5). For both genders, weight gain increased with age through age 59 and then decreased with age (statistical significance of gender- and age-based differences not tested).

Figure 29—Distribution of body weight: Adult females



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 30—Distribution of body weight: Adult males



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

FSP participants reported a greater mean weight gain since age 25 than either income-eligible nonparticipants or higher-income nonparticipants. Overall, FSP participants reported gaining an average of 29.2 pounds, compared with 22.4 pounds for income-eligible nonparticipants and 19.7 pounds for higher- income nonparticipants (figure 31 and table D-84). Moreover, 23 percent of FSP adults reported gaining more than 50 pounds since age 25 (table D-85). The same was true for only 14 percent of income-eligible nonparticipants and 10 percent of higher-income nonparticipants. All of these between-group differences were statistically significant. These general patterns were observed for both males and females; however, disparities between FSP participants and nonparticipants were greatest among females.

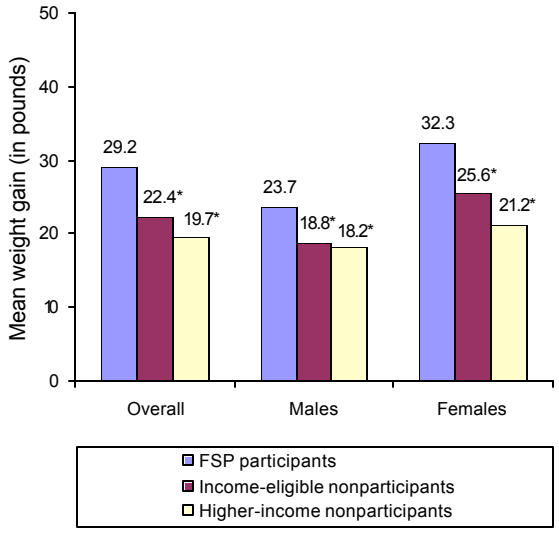
Weight Change in the Past 10 Years Among Adults 36 and Older

Overall, adults 36 and older gained weight over the past 10 years, with an average increase of 8.1 pounds (table D-86). Females reported a greater mean weight gain than males (10.4 pounds vs. 5.6 pounds), and reported mean weight gain decreased with age. Among adults 70 and older, the mean weight change in the past 10 years was negative rather than positive, indicating weight loss rather than gain (statistical significance of gender- and age-based differences not tested).

There was no significant difference between FSP participants and income-eligible nonparticipants in reported mean weight change over 10 years. However, the difference between FSP participants and higher-income nonparticipants was statistically significant, with FSP participants reporting a significantly greater weight gain (12.7 pounds vs. 7.5 pounds). This difference was attributable to a difference among females, particularly females between 40 and 49 years. Overall, the mean reported ten-year-weight-gain for FSP females was 14.8 pounds, compared with 9.7 pounds for higher-income females. Among 40-49-year-olds, the difference was 28.2 pounds vs. 13.4 pounds.

Additional information about patterns of adult weight change are available in table D-87, which shows the full distribution of reported 10-year weight change, and in tables D-88 and D-89, which show means and distributions of differences between current weight and lifetime maximum weight.

Figure 31—Mean weight gain since age 25



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Accuracy of Perceptions about Body Weight

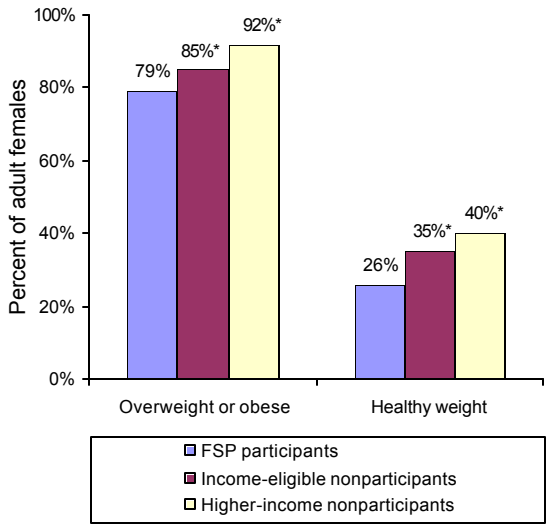
All NHANES-III respondents 17 and older were asked how they felt about their current body weight: "Do you consider yourself now to be overweight, underweight, or about the right weight?" These data were analyzed for all adults as well as separately for adults who were at a healthy weight and adults who were overweight or obese, based on actual BMIs.

More than three-quarters (77%) of adults who were overweight or obese had an accurate perception of their body weight (table D-90).

Overweight and obese females tended to have more accurate perceptions than overweight and obese males. Almost 90 percent of overweight and obese females perceived themselves to be overweight, compared with only 66 percent of overweight and obese males (tables D-91 and D-92) (statistical significance of gender-based difference not tested).

FSP females who were overweight and obese had a less accurate perception of their body weight than comparable females in the income-eligible and higher-income nonparticipant groups. Seventy-nine percent of FSP females who were overweight or obese perceived themselves this way, compared with 85 percent of comparable income-eligible females and 92 percent of comparable higher-income females (figure 32 and table D-92). There were no significant between-group differences in the percentage of overweight/obese males who described themselves as overweight. On average, about two-thirds of overweight/obese males had an appropriate perception of their body weight.

Figure 32—Percent of adult females who perceived themselves to be overweight



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Overall, 25 percent of adults who were at a healthy weight perceived themselves to be overweight (table D-90). Healthy weight males were less likely to perceive themselves to be overweight than healthy weight females (11% vs. 38%) (tables D-91 and D-92) (statistical significance of gender-based difference not tested).

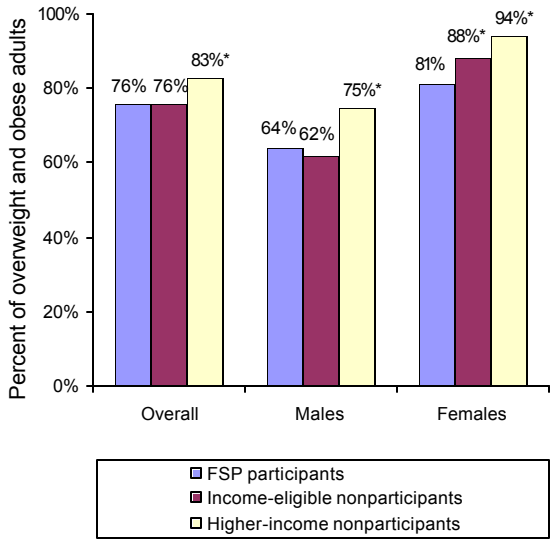
FSP participants who were at a healthy weight were less likely than higher-income nonparticipants to perceive themselves as overweight (14% vs. 27%) (table D-90). This pattern was observed for both males and females (tables D-91 and D-92). Among healthy weight females, FSP participants were also less likely than income-eligible nonparticipants to describe themselves as being overweight (figure 32).

Desire to Lose Weight

In response to the question "Would you like to weigh more, less, or stay about the same?" more than 8 out of 10 adults who were overweight or obese indicated that they would like to weigh less (table D-93). The percentage of overweight/obese males who expressed a desire to lose weight was less than the percentage of overweight/obese females who reported this desire (73% vs. 91%) (tables D-94 and D-95) (statistical significance of gender- and age-based differences not tested).

Overall, there was no significant difference between FSP participants and income-eligible nonparticipants in the percentage of overweight and obese adults who reported wanting to lose weight (figure 33 and table D-93). However, in comparison with higher-income nonparticipants, FSP participants who were overweight or obese were less likely to want to lose weight (76% vs. 83%). This pattern was observed for both males and females (figure 33 and tables D-94 and D-95). In addition, among females, overweight and obese FSP participants were significantly less

Figure 33—Percent of overweight and obese adults who expressed a desire to lose weight



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

likely than income-eligible nonparticipants to want to lose weight (81% vs. 88%).

Substantial numbers of adults (37%) who were at a healthy weight also expressed a desire to lose weight (table D-93). However, the percentage of healthy weight males who reported this desire was substantially lower than the percentage of healthy weight females (16% vs. 54%) (tables D-94 and D-95) (statistical significance of gender-based difference not tested).

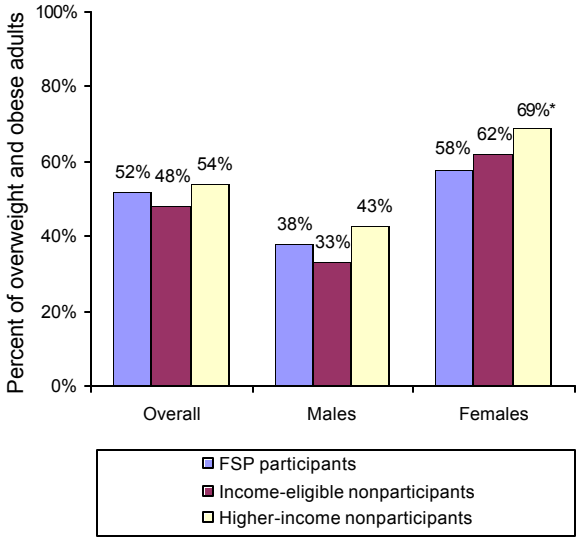
Overall, FSP participants who were at a healthy weight were significantly less likely than their counterparts in either of the nonparticipant groups to want to lose weight (17% vs. 25% and 40%) (table D-93). This pattern was observed for both males and females; however, among females, the difference between FSP participants and income-eligible nonparticipants was not statistically significant (tables D-94 and D-95).

Attempts to Lose Weight During the Past 12 Months

Finally, all adults were asked whether they made any attempt to lose weight during the preceding 12 months. Overall, 40 percent of all adults reported attempting to lose weight sometime during this time period (table D-96). Both healthy weight and overweight/obese adults reported attempts to lose weight, although the proportion of overweight and obese adults who reported such attempts was substantially larger than the proportion of healthy weight adults (53% vs. 26%). In addition, the proportion of females who attempted to lose weight, whether they were at a healthy weight or were overweight/obese, was consistently greater than the proportion of males (tables D-97 and D-98) (statistical significance of weight- and gender-based differences not tested).

Overall, overweight and obese FSP adults were no more likely than comparable adults in the two nonparticipant groups to have tried to lose weight during the preceding 12 months (figure 34 and table D-96). The same was true for

Figure 34—Percent of overweight and obese adults who tried to lose weight in the past 12 months



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

overweight and obese males analyzed separately (table D-97). Among overweight and obese females, however, FSP participants were less likely than comparable higher-income females to have attempted to lose weight (table D-98).

Among healthy weight persons, FSP participants were significantly less likely than higher-income nonparticipants to have attempted weight loss during the preceding 12 months (table D-96). This pattern was noted for both males and females; however, among females, the difference between FSP participants and income-eligible nonparticipants was also statistically significant (tables D-97 and D-98).

Nutritional Biochemistries

Iron Deficiency, Iron-Deficiency Anemia, and Anemia

Iron deficiency is the most common known form of nutritional deficiency (CDC, 1998). Iron deficiency can lead to developmental delays, behavioral problems, and decreases in verbal learning and memory. It can also affect immune function, energy metabolism, and work performance (U.S. DHHS, 2000a, CDC, 1998, and Looker et al., 1997). The prevalence of iron deficiency has decreased dramatically over the past three decades, in part because of increased iron intake among infants and young children and the influence of the WIC program (Yip et al., 1987). Nonetheless, iron deficiency remains a problem for young children, particularly low-income children. *Healthy People 2010* includes a goal to decrease the prevalence of iron deficiency among preschool children (ages 1 to 4) and among women of childbearing age (U.S. DHHS, 2000a).

The terms anemia, iron deficiency, and iron-deficiency anemia are often used interchangeably, however, they are not equivalent (U.S. DHHS, 2000a). Although iron deficiency can contribute to anemia, anemia can also be caused by other factors, including other nutrient deficiencies, infection, inflammation, and hereditary anemias. When the prevalence of iron deficiency is high, anemia is a good predictor of iron deficiency. However, when the prevalence of iron deficiency is low, the majority of anemia is due to other causes (U.S. DHHS, 2000a).

This analysis assessed the prevalence of iron deficiency using the criterion defined in *Healthy People 2010* (U.S. DHHS, 2000a). This criterion defines iron deficiency as abnormal results on two or more of the following measures of iron status: serum transferrin saturation, erythrocyte protoporphorin, and serum ferritin. Iron-deficiency anemia was defined as documented iron deficiency (as defined above) plus an abnormally low hemoglobin (Looker et al., 1997). Cutoff values used in the analysis are shown in appendix B. The analysis sample was limited to sample members with data for all relevant variables.

The prevalence of iron deficiency for the population as a whole was about 6 percent (table D-99).[3] Prevalence was greatest among 1-2-year-old children (9%), females of childbearing age (12-49 years) (8% to 15%), and females 80 and older (9%).

Overall, the prevalence of iron deficiency among FSP participants and income-eligible nonparticipants was not significantly different. However, FSP participants were twice as likely as higher-income nonparticipants to be iron deficient (10% vs. 5%). This difference was concentrated among females of childbearing age, particularly among women between 20 and 39 (figure 35). Among 20-29-year-old females, 14 percent of FSP participants were iron deficient, compared with 6 percent of higher-income nonparticipants.

[3]Results for each of the three measures of iron status considered in defining iron deficiency (serum ferritin, free erythrocyte protoporphorin, and transferrin saturation) are presented in tables D-100 to D-102.

Figure 35—Percent of females of childbearing age with iron deficiency

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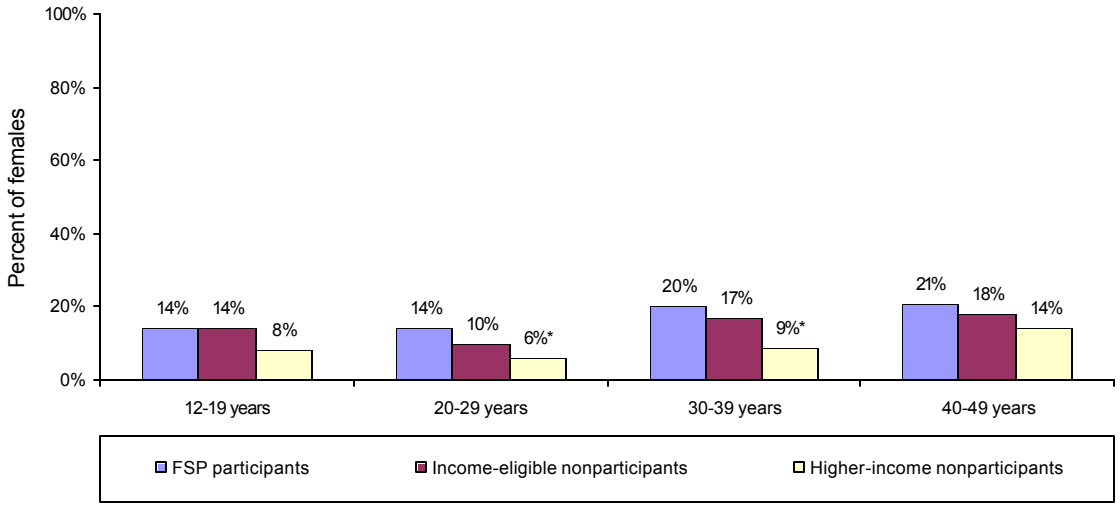


*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Comparable statistics for 30-39-year-old females were 20 percent vs. 9 percent.

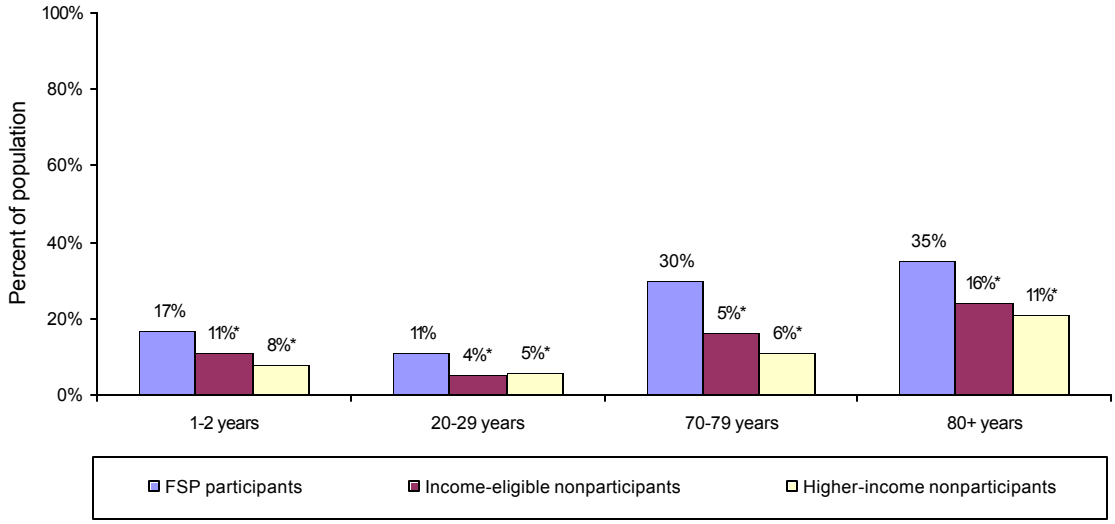
Iron-deficiency anemia was observed in 2 percent of the population (table D-103). Overall, there was no significant difference between FSP participants and income-eligible nonparticipants in the prevalence of this condition. In comparison with higher-income nonparticipants, however, FSP participants were twice as likely to have iron-deficiency anemia (4% vs. 2%). Differences between the two groups were concentrated among 1-2-year-olds (5% vs. 1%) and among females (5% vs. 3%).

The prevalence of anemia, defined on the basis of low levels of hemoglobin or hematocrit, was substantially greater than the prevalence of iron-deficiency anemia as assessed in this analysis (tables D-104 and D-105). Overall, 8 percent of the population had a low hemoglobin level (table D-104). Prevalence of anemia (low hemoglobin) was greatest among 1-2-year-olds (11%) and among adults 60 years and older (10% to 23%) (statistical significance of age-based differences not tested). Given the relatively low prevalence of iron-deficiency anemia, as discussed above, a substantial proportion of the anemia observed is likely to be due to other causes (other nutrient deficiencies, infection, inflammation, and hereditary anemias).

Based on hemoglobin levels, the overall prevalence of anemia was comparable for FSP participants and income-eligible nonparticipants. However, the prevalence of anemia among FSP participants was double that of higher-income nonparticipants (14% vs. 7%). This general pattern was observed for both males and females.

When the data were examined by age group, several differences emerged that were significant for both of the between-group comparisons. Specifically, among 1-2-year-olds, 20-29-year-olds, and adults 70 and older, FSP participants were significantly more likely than either income-eligible nonparticipants or higher-income nonparticipants to have anemia (low hemoglobin) (figure 36). A comparable pattern was observed for 3-5-year-olds; however, this data is not presented in figure 36 because the point estimate for income-eligible nonparticipants is statistically unreliable.

Figure 36—Percent of specific population groups with anemia/low hemoglobin



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

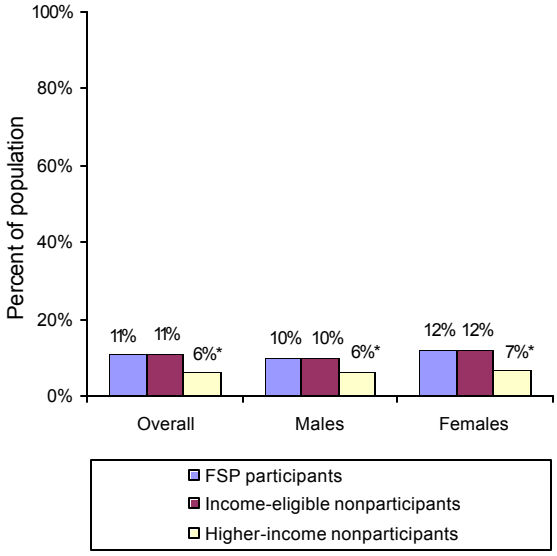
Red Blood Cell (RBC) Folate

Overall, 7 percent of the population had low levels of red blood cell (RBC) folate, an indicator of long-term folate status (Wright et al., 1998) (table D-106). Prevalence of low RBC folate was greatest among females between 12 and 29 years of age (13-15%). Adequate RBC folate levels are particularly important for women of childbearing age, because inadequate maternal folate has been associated with neural tube defects in newborns.

The prevalence of abnormally low RBC folate levels was comparable for FSP participants and nonparticipants (figure 37). In comparison with higher-income nonparticipants, however, FSP participants were significantly more likely to have low levels of RBC folate (11% vs. 6%). This pattern was noted for both males and females.

Among women of childbearing age, only one significant difference was noted between FSP participants and higher-income nonparticipants in the prevalence of low RBC folate levels. Among women 30-39 years, FSP participants were significantly more likely than higher-income nonparticipants to have low levels of RBC folate (16% vs. 7%) (table D-106).

Figure 37—Percent of persons with low levels of RBC folate



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Serum Vitamin B_{12}

Vitamin B_{12} deficiency is observed more often among older adults than among other population groups. This is due to age-related gastrointestinal changes, including decreased levels of hydrochloric acid, which impede absorption of the vitamin (IOM, 2000a). Low levels of vitamin B_{12} may contribute to anemia.

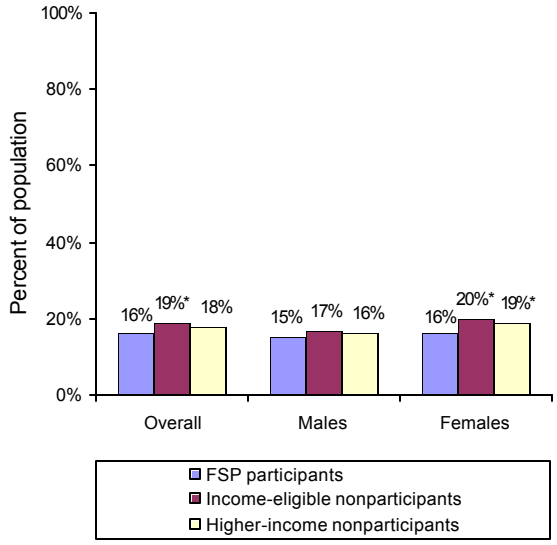
Overall, 3 percent of the population had low serum levels of vitamin B_{12} (table D-107). The observed prevalence of this condition was slightly lower for FSP participants than either group of nonparticipants (2% vs. 3% for both groups of nonparticipants); however, only the difference between FSP participants and higher-income nonparticipants was statistically significant. This difference was largely attributable to a difference among the oldest adults (80 and older), particularly males.

Serum Cholesterol and Related Measures

Elevated serum cholesterol levels have been associated with increased risk of coronary heart disease in adults. Further, there is evidence that the process of atherosclerosis, or the build-up of fatty deposits in the arteries, begins early in childhood. For children up to the age of 19, the National Cholesterol Education Program (NCEP) considers a serum cholesterol level of 200 mg/dL or more to be high and levels between 170 mg/dL and 199 mg/dL to be borderline high (National Institutes of Health (NIH), 1991). For adults, a serum cholesterol of 240 mg/dL or more is considered high, and levels of 200-239 mg/dL are considered borderline high (NIH, 2001).

Overall, 18 percent of the population had a high cholesterol level (table D-108). The percentage of FSP participants with a high serum cholesterol level was not significantly different from that of higher-income nonparticipants (figure 38). However, FSP participants were significantly less likely than income-eligible nonparticipants to have a high cholesterol (16% vs. 19%). This between-group difference was noted for females, but not for males. In fact, among females, FSP participants were significantly less likely than either group of nonparticipants to have a high serum cholesterol (16% vs. 20% and 19%). There were no significant differences, overall or by gender, between FSP participants and either group of nonparticipants in the prevalence of borderline-high cholesterol levels (table D-109).

Figure 38—Percent of persons with high levels of total cholesterol



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

The prevalence of high and borderline-high levels of LDL ("bad") cholesterol, low levels of HDL ("good") cholesterol, and high triglyceride levels was also examined (tables D-110 to D-113).[4] Overall, there were no statistically

[4]LDL cholesterol levels of 130-159 mg/dL were considered borderline-high. The cutoff used to define high LDL cholesterol levels ($\geq$160 mg/dL) includes both high and very high levels as defined by the NCEP. HDL cholesterol levels of $<$ 40 mg/dL were considered low. The cutoff used to define high triglycerides ($\geq$200 mg/dL) includes both high and very high triglycerides as defined by the NCEP (NIH, 2001).

significant between-group differences on any of these measures. In addition, only one significant difference was observed in the gender-specific analyses. Females in the FSP participant group were more likely than females in the higher-income group to have low levels of HDL cholesterol (17% vs. 10%) (table D-112). The difference was concentrated among females 20-29 years of age (24% vs. 9%) and between the ages of 40 and 59 (20% vs. 9-10%).

Bone Density

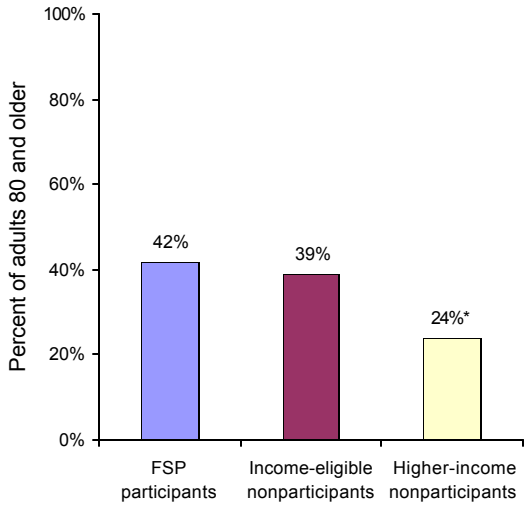
A reduction in bone mass or bone density can lead to deteriorated or fragile bones (U.S. DHHS, 2000a). Reduced bone density, or osteopenia, has been defined as bone density that is 1 to 2.5 standard deviations below the mean for non-Hispanic white women between the ages of 20 and 29, as measured in NHANES-III (NCHS, 1999). Severely reduced bone mass, or osteoporosis, is defined as bone density more than 2.5 standard deviations below this norm. The *Healthy People 2010* objectives include a goal to reduce the prevalence of osteoporosis among adults (U.S. DHHS, 2000a).

Overall, 23 percent of adults 20 years and older had reduced or severely reduced bone density and 4 percent had severely reduced bone density (osteoporosis) (tables D-114 and D-115). The prevalence of these conditions was markedly greater among females than males (33% and 6% vs. 12% and 1%) (tables D-116 to D-119). In addition, the prevalence of both conditions increased dramatically with age. For example, fewer than 10 percent of adults between 20 and 29 had reduced or severely reduced bone mass, compared with 72 percent of adults 80 and older. This pattern was noted for both males and females (statistical significance of gender- and age-based differences not tested).

There were no statistically significant differences, overall or by gender, between FSP participants and either group of nonparticipants in the percentage of adults with reduced or severely reduced bone density, or in the percentage with severely reduced bone density (osteoporosis). However, among those most at risk of osteoporosis—adults 80 and over—FSP participants were significantly more likely than higher-income nonparticipants to have this condition (42% vs. 24%) (figure 39 and table D-115). This pattern was noted for both males and females; however the between-group difference was not statistically significant in the gender-specific analyses (sample sizes for FSP participant cells were quite small).

A notably different pattern was observed among younger adult males. FSP males were significantly *less* likely than income-eligible males (20-29 years and 40-49 years) and higher-income males (20-29 years through 40-49 years) to have reduced or severely reduced bone density (table D-116).

Figure 39—Percent of adults 80 and over with severely reduced bone density



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Chapter Five

Health-Related Behaviors

This chapter presents information on health-related behaviors of FSP participants and nonparticipants. Topics covered include breastfeeding and other infant feeding practices, physical activity, television viewing (among children), and consumption of alcohol and tobacco.

Breastfeeding and Other Infant Feeding Practices

NHANES-III included, for women who had given birth during the preceding 2 years, a series of questions about breastfeeding. For infants and children under the age of 6 years, a detailed set of questions on infant feeding practices was included. These questions asked about initiation and duration of breastfeeding, use of formula and cow's milk, use of baby bottles, and introduction of solid foods. All of these data are summarized in the sections that follow.

Initiation and Duration of Breastfeeding

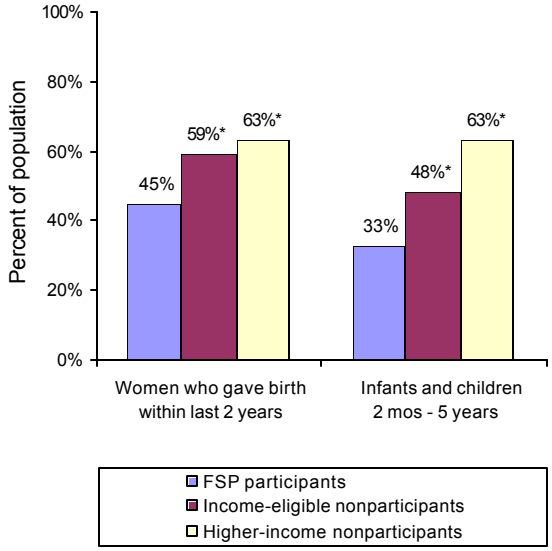
The *Healthy People 2010* goals recognize that breastmilk is the optimal source of nutrition for infants (U.S. DHHS, 2000a). Goals have been established for the proportion of infants breastfed during the early neonatal period (75%), the proportion breastfed for up to 6 months (50%), and the proportion breastfed for at least a year (25%).

At the time the NHANES-III data were collected, the prevalence of breastfeeding for the population as a whole fell short of the *Healthy People 2010* goals. Overall, 58 percent of women who had given birth during the preceding 2 years breastfed their infant for at least some period of time (table D-120). In addition, 54 percent of infants and children under 6 were breastfed (table D-121).

Among women who had given birth within the preceding 2 years, FSP participants were significantly less likely than either income-eligible nonparticipants or higher-income nonparticipants to have breastfed their infant(s) (figure 40 and table D-120). Forty-five percent of the FSP participants in this group breastfed their babies for some period of time, compared with 59 percent of income-eligible nonparticipants and 63 percent of higher-income nonparticipants.

Similarly, FSP infants and children under the age of 6 were significantly less likely to have ever been breastfed than either income-eligible or higher-income nonparticipant infants and children (33% vs. 48% and 63%) (figure 40 and table D-121). This pattern was observed for every age

Figure 40—Prevalence of breastfeeding



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

cohort. However, differences between FSP participants and income-eligible nonparticipants were not statistically significant for 2-year-olds and 5-year-olds.

Among infants and children who had been breastfed, the percentage breastfed for at least 6 months was less than the goal outlined in *Healthy People 2010* (U.S. DHHS, 2000a). The same was true for the percentage breastfed for a year or more. As noted above, *Healthy People 2010* includes goals of 50 percent for infants breastfed for at least 6 months and 25 percent for infants breastfed for at least a year. According to caregiver reports, 42 percent of infants and children 7 months to 5 years were breastfed for at least 6 months (table D-122) and 17 percent of children 1 to 5 years were breastfed for a year or more (table D-123).

FSP infants and children were significantly less likely than either group of nonparticipants to have been breastfed for at least 6 months (36% vs. 43-44%) (table D-122). There were no significant differences between groups in the percentage of children who were breastfed for a year or more (table D-123) or in the mean duration of breastfeeding (table D-124). On average, all three groups were breastfed for about 26 weeks.[1]

Use of Supplemental Formula Among Breastfed Infants

Among infants and children who were ever breastfed, only 17 percent never received supplemental formula (table D-125). On average, formula was first introduced at about 12 weeks of age (table D-126).

While there were no significant differences, overall, between FSP participants and either group of nonparticipants on either of these measures, significant differences were noted for the youngest breastfed infants (2-6-month-olds and 7-11-month-olds). In these cohorts, those for which caregivers' reports are likely to be most accurate, breastfed FSP infants were significantly more likely than breastfed infants in either the income-eligible or higher-income nonparticipant groups to have received supplemental infant formula (table D-125). Sample sizes were too small to produce reliable point estimates for FSP infants and income-eligible infants, but there was a statistically significant difference between FSP participants and each group of nonparticipants in the prevalence of the behavior.

In addition, among infants and 2-year-olds, breastfed FSP participants were first fed formula on a daily basis at a significantly earlier age than breastfed higher-income nonparticipants (table D-126). The difference ranged from about 2 weeks for 2-6-month-olds (4.0 weeks vs. 6.1 weeks) to about 4 weeks for 2-year-olds (10.3 weeks vs. 14.3 weeks).

Use of Cow's Milk Before 12 Months of Age

Infant feeding experts recommend that cow's milk not be introduced until infants have reached their first birthday (American Academy of Pediatrics, 2003 and USDA/FNS, 2003c). The rationale for this recommendation is that, relative to infants' special nutritional needs, cow's milk is low in iron and other essential nutrients and high in protein, sodium, and potassium. In addition, the type of protein and fat found in cow's milk may be difficult for infants to digest and absorb.

At the time the NHANES-III data were collected, many parents and caregivers did not adhere to this recommendation. Across all age groups, 36 percent of infants and children under the age of 6 were fed cow's milk on a daily basis before 12 months of age (table D-127). The mean age at which cow's milk was first introduced was 44.3 weeks or about 10.5 months (table D-128).

[1]Mean duration of breastfeeding was not tabulated for infants because some infants were still breastfeeding.

Overall, there were no significant differences between FSP participants and either group of nonparticipants on either of these measures.

Use of a Baby Bottle

It is recommended that infants be fed beverages from cups rather than bottles as soon as they are able to sit erectly on their own. Infants can generally drink from a cup, with assistance, by 4–6 months and can hold a cup on their own by 10–12 months (American Academy of Pediatrics, 2003 and USDA/FNS, 2003c). A major reason for discouraging prolonged use of baby bottles is that it increases the risk of tooth decay, resulting in a syndrome known as "baby-bottle-caries" in which infant teeth are excessively decayed (American Academy of Pediatrics, 2003 and USDA/FNS, 2003c). In extreme cases, underlying permanent teeth may also be affected. Another concern is that infants who consume too much formula or other beverages from a bottle may crowd out other essential nutrients found in solid foods.

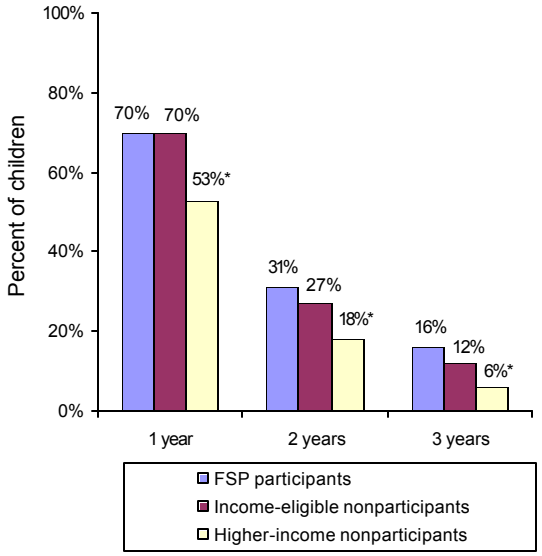
The vast majority of infants and children (96%) used a baby bottle at some point in time (table D-129). FSP participants were significantly more likely than higher-income nonparticipants to have used a baby bottle (97% vs. 95%). Differences were concentrated among 7-11-month-olds and 1-year-olds, and may be related to the higher rate of breastfeeding among higher-income nonparticipants.

In all three groups, more than 92 percent of infants younger than 1 year of age were using baby bottles at the time data were collected (table D-130). The percentage of 7-11-month-olds who were using bottles was significantly higher for FSP participants than for either group of nonparticipants (the point estimate for FSP participants is statistically unreliable).

At about a year of age, there was a noteworthy decline in use of baby bottles. Overall, 60 percent of 1-year-olds were using a bottle. This percentage decreased to 23 percent for 2-year-olds and to 10 percent and 4 percent for 3- and 4-year-olds, respectively. This general pattern was noted for all three groups of children. However, in comparison with higher-income children, the rate of decline was significantly slower for FSP children. Among 1-4-year-olds, the percentage using a baby bottle was significantly greater for FSP participants than for higher-income nonparticipants at each year of age (figure 41 and table D-130). Among 4-year-olds, the difference between FSP participants and income-eligible nonparticipants was also statistically significant. (Data for 4-year-olds are not shown in figure 41 because the point estimates for both groups of nonparticipants are statistically unreliable).

Among children who were no longer using a baby bottle, there were no significant differences between FSP participants and either group of nonparticipants in the percentage of children who stopped using a bottle before 1 year of age

Figure 41—Percent of children 1-3 years still using a baby bottle



*Statistically significant difference from FSP participants at the .05 level or better. Four-year-olds are not shown because point estimates are statistically unreliable for both nonparticipant groups.
Source: NHANES-III, 1988-94.

(table D-131) or in the mean age at which baby bottles were discontinued (table D-132).

Introduction of Solid Foods

Recommended infant feeding practices suggest that solid foods be introduced as children become physically and physiologically able to handle these foods. Signs of readiness include the ability to sit erectly in a supported position (for example, in a high chair), to draw in the lower lip when being fed with a spoon, to swallow food rather than reflexively push it out with the tongue, and to express satiety (American Academy of Pediatrics, 2003 and USDA/FNS, 2003c). These developmental milestones usually occur between 4 and 6 months of age. Consequently, infants should generally not receive solid foods until at least 4 months of age.

The available data suggest that parents of FSP infants and children were more likely to adhere to this guideline than parents of either income-eligible nonparticipants or higher-income nonparticipants (table D-133). According to parent reports, 20 percent of FSP infants and children 2 months to 5 years received solid foods before the age of 4 months, compared with 24 percent of both income-eligible and higher-income infants and children.

The mean age at which solid foods were introduced was 6.3 months for FSP infants and children, 5.8 months for income-eligible infants and children (difference was not statistically significant), and 5.3 months for higher-income infants and children (difference was statistically significant) (table D-134).

Physical Activity Among Children and Adolescents

The *Healthy People 2010* goals for physical activity among children and adolescents call for moderate physical activity 5 days per week, for at least 30 minutes each time, and vigorous physical activity that enhances cardiovascular health 3 days per week, for at least 20 minutes (U.S. DHHS, 2000a). NHANES-III data on physical activity are not detailed enough to assess compliance with these goals because the data do not include information on the amount of time spent being active.[2] Nonetheless, the available data provide useful insights about physical activity patterns of children and adolescents.

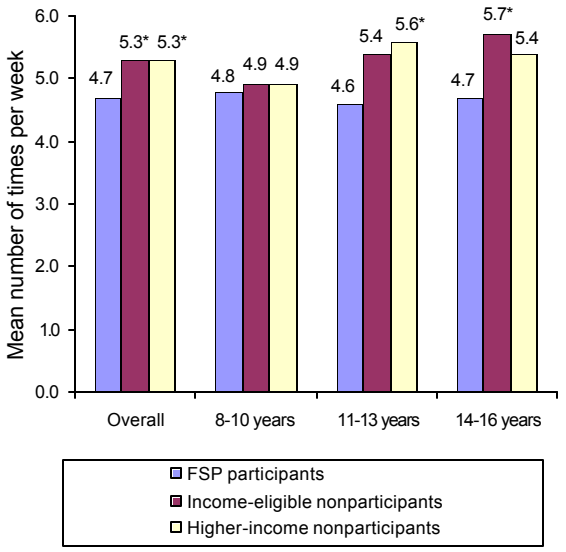
Children and adolescents 8 to 16 years were asked to report the number of times per week they "play[ed] or exercise[d] enough to make [them] sweat and breathe hard." Responses to this question can be viewed as reasonably indicative of the amount of vigorous physical activity engaged in by children and adolescents.

Overall, children and adolescents reported engaging in vigorous physical activity an average of 4.7 times per week (table D-135). Results for FSP children and income-eligible nonparticipant children were comparable, at 4.4 and 4.6 times per week. However, the reported frequency of vigorous physical activity was significantly lower for FSP children than for higher-income children (4.4 times per week vs. 4.8 times per week). This difference was concentrated among 11-13-year-olds (4.3 times vs. 5.1 times), and among males (4.7 times vs. 5.3 times). Among males, the difference between FSP participants and income-eligible nonparticipants was also statistically significant (figure 42). This difference was concentrated among 14-16-year-olds.

The frequency of vigorous physical activity was examined separately for children who were at a healthy weight and children who were overweight (BMI-for-age at or above the 95th percentile; see Chapter Four) or at risk of

[2] *Healthy People 2010* used data from the Youth Risk Behavior Surveillance System (YRBSS), rather than NHANES-III, to establish baselines for goals related to physical activity among youth, and will use YRBSS data to monitor trends in this area over time (U.S. DHHS, 2000a).

Figure 42—Frequency of vigorous physical activity among males 8-16 years



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

becoming overweight (BMI-for-age between the 85th and 95th percentiles). Among healthy weight children, there were few statistically significant differences between FSP participants and nonparticipants in the frequency of vigorous physical activity (table D-136). The only significant difference noted was that healthy weight FSP participants between 11 and 13 reported significantly less vigorous physical activity per week than comparably aged healthy weight higher-income nonparticipants (4.4 times vs. 5.0 times). This difference was concentrated among males.

Among children who were overweight or at risk of being overweight, differences between FSP participants and nonparticipants were more pronounced. FSP children who were overweight or at risk of being overweight engaged in vigorous physical activity an average of 4.3 times per week, compared with 5.0 times per week for both income-eligible and higher-income nonparticipants. These differences were statistically significant and were primarily due to differences among 11-13-year-olds and among males.

Percent of Children Engaging in Vigorous Physical Activity at Least Three Times per Week

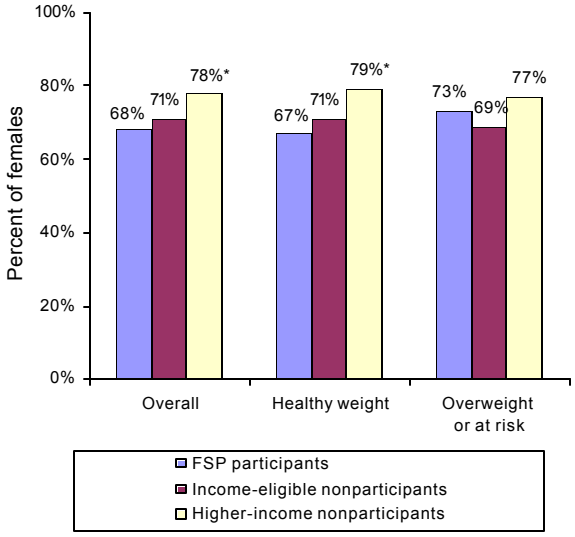
Eighty percent of all children reported that they engaged in vigorous physical activity at least three times per week (table D-137). The percentage of males reporting this level of physical activity was greater than the percentage of females (84% vs. 75%) (statistical significance of gender-based difference not tested).

About three-quarters of FSP children reported vigorous physical activity at least three times per week, compared with 80 percent of income-eligible nonparticipants (difference was not statistically significant) and 81 percent of higher-income nonparticipants (difference was statistically significant). This overall pattern was observed for both males and females; however, the significance of between-group differences was not consistent. Among males, the difference between FSP participants and income-eligible nonparticipants was statistically significant (80% v. 89%). Among females, the difference between FSP participants and higher-income nonparticipants was statistically significant (68% vs. 78%).

Among children who were at a healthy weight, there were no significant between-group differences, overall, in the percentage of individuals reporting vigorous physical activity at least three times per week (table D-138). This was also true for males analyzed separately. Among healthy weight females, however, FSP participants were significantly less likely than higher-income nonparticipants to report engaging in vigorous physical activity three or more times per week (67% vs. 79%) (figure 43).

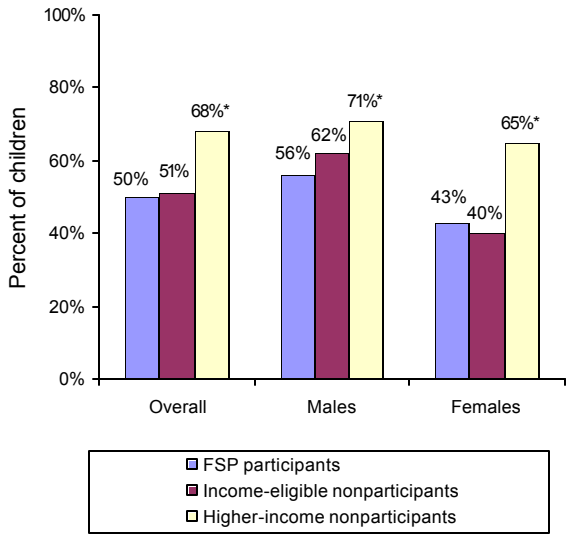
Among children who were overweight or at risk of becoming overweight, there were no overall differences between FSP participants and either group of nonparticipants in the percentage of children who reported vigorous physical activity

Figure 43—Percent of females 8-16 years exercising vigorously at least three times per week



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 44—Percent of children 8-16 years participating in organized exercise programs or sports teams



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

three or more times per week. This was true for the overall population (figure 43), as well as for males and females analyzed separately (table D-138).

Participation in Organized Exercise Programs or Sports Teams

Organized exercise programs and sports teams are one mechanism for increasing children's physical activity. There were no significant differences between FSP children and income-eligible children in the percentage of individuals who were involved in team sports or other organized exercise programs during the past year. Overall, about half of all children in each group were involved in such activities (table D-139).

In comparison with higher-income children, however, FSP children were less likely to be involved in team sports or other organized exercise programs (50% vs. 68%). This pattern was noted for both males and females (figure 44) and for both healthy weight and overweight/at-risk children (table D-140). An exception was noted for male children who were at a healthy weight. In this cohort, the difference between FSP participants and higher-income nonparticipants was not statistically significant.

Television Viewing Among Children and Adolescents

NHANES-III collected information on the television-viewing habits of children between the ages of 5 and 16. The data reveal that children participating in the FSP spend about the same amount of time watching television as income-eligible nonparticipant children—an average of more than 2 hours per day (table D-141). Higher-income children, however, watch significantly less television, on average, than FSP children. Higher-income males spend about 18 minutes less per day in front of the television than their FSP participant counterparts. Higher-income females spend about 35 fewer minutes per day watching television than FSP females.

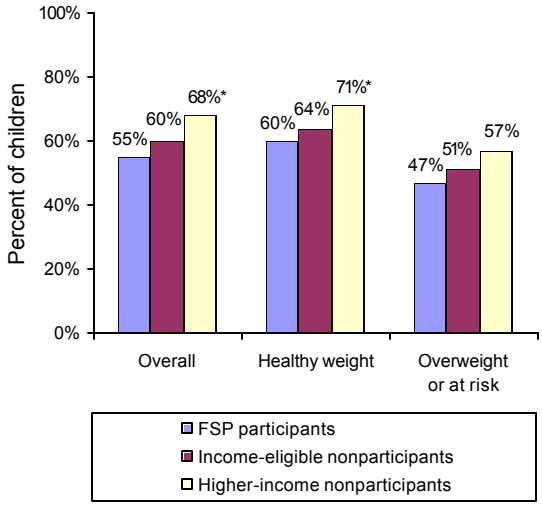
Healthy People 2010 recommends that children's television viewing be limited to 2 hours or less per day. Overall, the percentage of FSP

children who met this goal was lower than the percentage of children in either group of nonparticipants (55% vs. 60% and 68%) (figure 45 and table D-142). However, only the difference between FSP participants and higher-income nonparticipants was statistically significant. This pattern was observed for both males and females.

In comparison with healthy weight children, children who were overweight or at risk of becoming overweight watched more television. Healthy weight children watched an average of 2.0 hours of television per day, compared with 2.3 hours per day for overweight/at-risk children (table D-143). Similarly, 68 percent of healthy weight children watched 2 hours or less of television per day, compared with 55 percent of overweight/at-risk children (table D-144) (statistical significance of weight-based differences not tested). These patterns were noted for both males and females.

Among healthy weight children, between-group differences in television viewing mirrored those observed for the total population. Healthy weight FSP children watched significantly more television than healthy weight children in the higher-income nonparticipant group (2.2 hours vs. 1.9 hours) (table D-143). Healthy weight FSP children were also significantly less likely than healthy weight higher-income children to watch 2 or fewer hours of television per day (60% vs. 71%) (figure 45 and table D-144). Among children who were overweight or at risk of overweight, there were no significant between-group differences in television viewing habits.

Figure 45—Percent of children 5-16 years watching 2 hours or less of television per day



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Physical Activity Among Adults

Increasing leisure-time physical activity among adults is one of the *Healthy People 2010* goals in the area of physical activity (U.S. DHHS, 2000a). Specific goals call for decreasing the percentage of adults who engage in no leisure-time activity and increasing the percentage of adults who participate in moderate and vigorous physical activity. As discussed below, NHANES-III data lack sufficient information to evaluate compliance with *Healthy People 2010* goals for vigorous and moderate activity.[3] However, the available data provide some information about the extent to which adults participate in specific types of physical activity.

Adult NHANES-III respondents (17 years and older) were asked to report whether they participated in a number of different physical activities during the past month and, if so, how often they engaged in the activity. The specific activities included in the query were walking a mile or more without stopping, jogging or running, riding a bike or an exercise bike, swimming, aerobics or aerobic dance, other types of dancing, calisthenics, gardening or yard work, and weight lifting. Respondents were also asked

[3]*Healthy People 2010* used data from the National Health Interview Survey (NHIS), rather than NHANES-III, to establish baselines for goals related to physical activity among adults, and will use NHIS data to monitor trends in this area over time. (U.S. DHHS, 2000a).

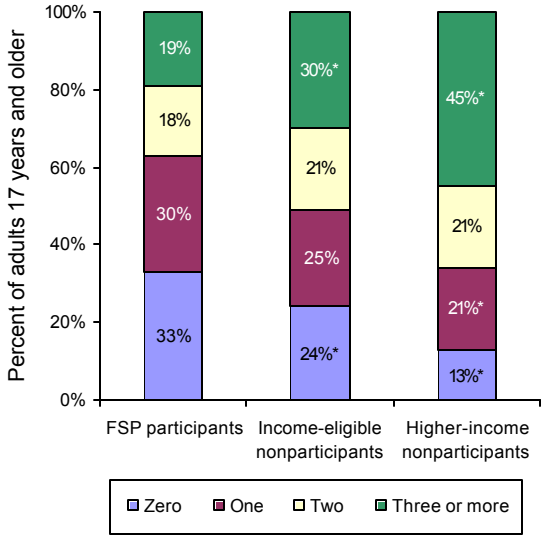
to identify any other type of physical activity they engaged in during the preceding month.

Number of Physical Activities in the Past Month

Overall, 16 percent of all persons 17 years and older reported participating in *no* physical activity during the preceding month—that is, they responded negatively to all the queried activities and didn't report any other type of physical activity (table D-145). Twenty-two percent reported participating in one activity and 21 percent reported two activities. The remaining 41 percent reported three or more activities. The percentage of individuals reporting zero activities or only one activity increased steadily as age increased, and the percentage reporting three or more activities decreased as age increased. In addition, a greater percentage of males than females reported engaging in three or more activities (44% vs. 39%) (statistical significance of age- and gender-based differences not tested).

FSP adults were significantly *more* likely to engage in no physical activities and significantly *less* likely to engage in three or more physical activities than either group of nonparticipants (figure 46 and table D-145). Overall, a third of FSP adults reported no physical activity, compared with about a quarter of income-eligible adults and 13 percent of higher-income adults. On the opposite end of the spectrum, 19 percent of FSP adults reported three or more physical activities, compared with 30 percent of income-eligible adults and 45 percent of higher-income adults. By age-group, differences between FSP participants and income-eligible nonparticipants were most frequent for the percentage of individuals reporting three or more physical activities. Significant differences between FSP adults and higher-income adults were more widespread; differences were noted at both ends of the physical activity spectrum (no activities and three or more activities) for every age cohort.

Figure 46—Distribution of adults by number of different physical activities in the past month



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

When data were examined separately for healthy weight adults and overweight/obese adults, the pattern of differences between FSP participants and nonparticipants was generally comparable to that observed for the total population. Regardless of weight status, FSP participants were *more* likely to engage in no physical activities and *less* likely to engage in three or more physical activities than either group of nonparticipants (table D-145). This general trend was also observed for both males (table D-147) and females (table D-149); however, in the gender-specific analyses, some of the differences between FSP participants and income-eligible nonparticipants did not reach statistical significance.

Walking

Data were tabulated separately for the item that asked respondents whether they had walked a mile or more without stopping at least once

during the past month. This activity was reported by more respondents than any other item on the list of queried activities (data not shown).

Overall, FSP adults were less likely than adults in either of the nonparticipant groups to have walked a mile or more without stopping at least once during the past month (table D-151). Forty-two percent of FSP adults reported doing this, compared with 46 percent of income-eligible adults and 51 percent of higher-income adults. This pattern was observed for both healthy weight adults and overweight/obese adults. Among healthy weight adults, however, the difference between FSP participants and income-eligible nonparticipants was not statistically significant. This general pattern was also observed when data were examined separately by gender (tables D-152 and D-153); however, fewer of the between-group differences were statistically significant.

Weekly Frequency of Physical Activity

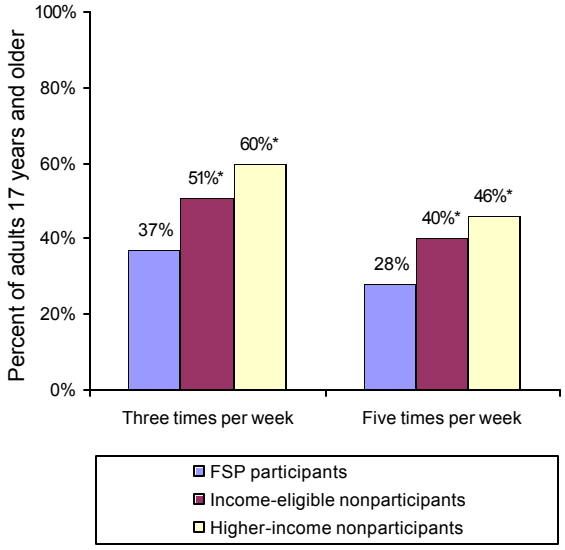
Healthy People 2010 objectives include specific goals for adults regarding frequency of vigorous and moderate activity. The goals call for regular, preferably daily, moderate activity (30 minutes per time) and vigorous activity at least three times per week (20 minutes per time).

As noted previously, NHANES-III data lack information on the duration of physical activity. The data for adults also lack adequate information on the intensity of activity. [4] For these reasons, NHANES-III data can not be used to assess adults' physical activity in light of *Healthy People 2010* goals. Instead, the available data were used to assess the percentage of older adults who engaged in any type of physical activity three or more times per week and the percentage who engaged in physical activity five or more times per week. All reported activities were included in these tabulations.

The data indicate that FSP adults were significantly less likely than adults in either of the two nonparticipant groups to be physically active at least three times per week (figure 47 and table D-154) Overall, 37 percent of FSP adults engaged in some type of physical activity at least three times per week. This compares with 51 percent of income-eligible adults and 60 percent of higher-income adults. This pattern holds for males and females as well as for healthy weight and overweight/obese adults (tables D-154 to D-156).

Results were comparable for the percentage of adults reporting physical activity five or more times per week (figure 47 and table D-157). Only 28 percent of FSP adults reported this frequency of physical activity, compared with 40

Figure 47—Percent of adults engaging in physical activity at least three times per week and five times per week



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

[4]All queried and reported physical activities were assigned intensity codes based on a standardized coding scheme used widely in physical activity research. However, these data could not be used to identify individuals whose physical activity was more or less vigorous because all respondents reporting a specific queried activity received the same intensity rating.

percent of income-eligible nonparticipants and 46 percent of higher-income nonparticipants. Again, this pattern was noted for both males and females and for both healthy weight and overweight/obese adults (tables D-157 to D-159)

Change in Level of Physical Activity Over Time

Adults 30 years and older were asked how their level of physical activity during the preceding month compared with their level of activity 10 years earlier. More than half (56%) of all adults reported that their activity level had decreased over the past 10 years (table D-160). Thirty percent said there had been no change in their level of activity and 15 percent said they were more active now than they had been 10 years ago.

There were no significant differences, overall, between FSP participants and income-eligible nonparticipants in reported change in physical activity habits over the past 10 years. In comparison with higher-income nonparticipants, however, FSP adults were *more* likely to report that their level of physical activity had decreased over the past 10 years (70% vs. 54%) and *less* likely to say their activity level had stayed the same (21% vs. 31%) or increased (9% vs. 15%). These general patterns were noted for both males (table D-162) and females (table D-164). Among healthy weight adults, differences between FSP participants and income-eligible nonparticipants were also statistically significant, with FSP participants being *more* likely than income-eligible nonparticipants to have decreased their activity (70% vs. 57%) and *less* likely to have increased their activity (7% vs. 13%) (table D-160). These differences were largely attributable to differences among females (table D-164).

Alcohol Consumption

Respondents 12 years of age and older were asked whether they had consumed at least 12 alcoholic beverages, not counting small sips, over their lifetime and during the past 12 months. Respondents who reported consuming at least 12 alcoholic drinks during the past year were asked how many drinks they consumed on an average day.

A majority (80%) of respondents reported consuming at least 12 alcoholic beverages during their lifetime (table D-166). The percentage reporting alcohol consumption increased dramatically between 12-19 years and 20-29 years (40% vs. 87%) and, after 30-39 years, decreased as age increased. Comparable patterns were observed for both males and females; however, the percentage of individuals reporting alcohol consumption was consistently greater for males than for females (statistical significance of age- and gender-based differences not tested).

The prevalence and volume of alcohol consumption, as measured in NHANES-III instruments, was generally comparable for FSP participants and income-eligible nonparticipants (tables D-166 to D-168). Roughly three-quarters of both FSP participants and income-eligible nonparticipants 12 years of age and older reported consuming at least 12 alcoholic beverages in their lifetime. More than 35 percent in each group reported consuming at least 12 alcoholic beverages within the past year and, on an average drinking day, FSP participants and income-eligible nonparticipants consumed 4 to 5 drinks.

In contrast, FSP participants were significantly less likely than higher-income nonparticipants to have consumed 12 or more alcoholic beverages—both over a lifetime (74% vs. 82%) and within the past year (37% vs. 52%) (tables D-166 and D-167). When drinking, however, FSP

participants consumed more alcoholic beverages, on average, than higher-income nonparticipants (5 drinks vs. 3 drinks) (figure 48 and table D-168). Differences between FSP participants and higher-income nonparticipants in both alcohol consumption over the past year and the mean number of drinks consumed when drinking were observed for both males and females (tables D-167 and D-168). However, the difference between the two groups in lifetime alcohol consumption was concentrated among females, particularly those in the older age groups (table D-166).

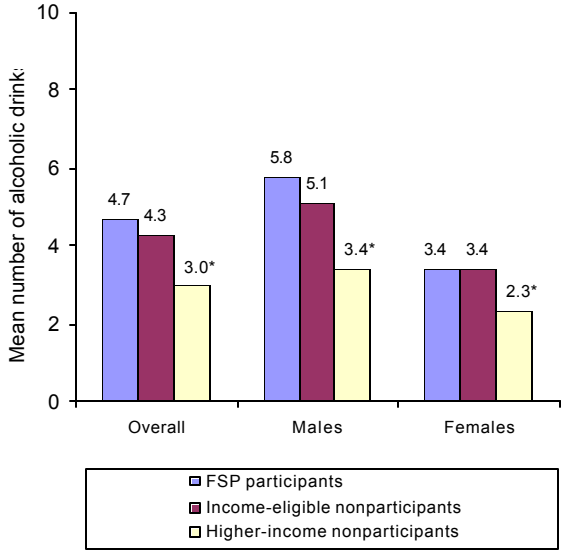
Tobacco Use

About half (49%) of all individuals 12 years and older reported having been a smoker at one time in their lives (defined as having smoked at least 100 cigarettes (5 packs)) (table D-169). The percentage of smokers increased dramatically between 12-19 years and 20-29 years (16% vs. 46%). Overall, the prevalence of tobacco use was greater for males than for females (58% vs. 41%) (statistical significance of age- and gender-based differences not tested).

FSP participants were significantly more likely than either income-eligible nonparticipants or higher-income nonparticipants to have ever smoked (figure 49). Fifty-seven percent of FSP participants 12 years of age and older smoked at least 100 cigarettes during their lifetime, compared with 51 percent of income-eligible nonparticipants and 48 percent of higher-income nonparticipants. These between-group differences were observed for both males and females.

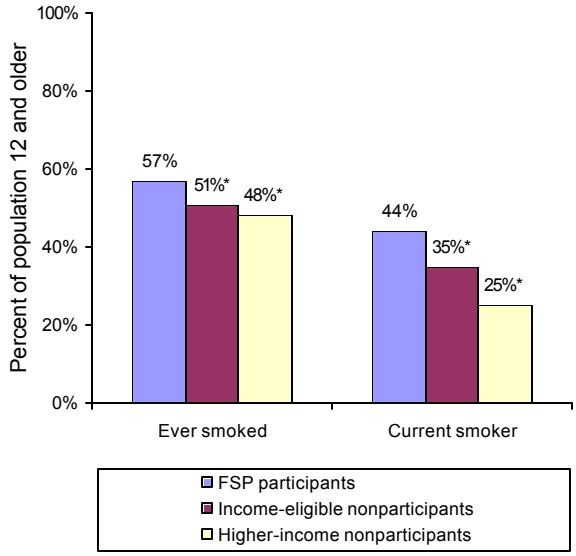
Current use of cigarettes (defined as having smoked cigarettes in the last 5 days, regardless of whether 100 or more cigarettes had been smoked over a lifetime) was also significantly more common among FSP participants than either income-eligible or higher-income nonparticipants (44% vs. 35% and 25%) (figure 49 and table D-170). There were no significant between-group differences in current use of pipes, cigars, and chewing tobacco (table D-171).

Figure 48—Mean number of alcoholic drinks consumed on average drinking day



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 49—Percent of persons 12 years and older who were or are smokers



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

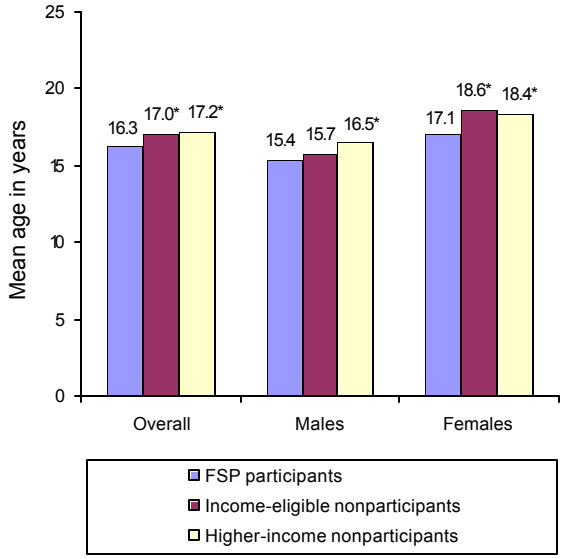
These general patterns were noted for both males and females; however, FSP females were significantly more likely than higher-income females to report current use of pipes, cigars, or chewing tobacco (3% vs. 0.5%).

FSP smokers and smokers in each of the nonparticipant groups smoked comparable numbers of cigarettes. Overall, smokers averaged 80 cigarettes (4 packs) over the past 5 days, or about three-quarters of a pack per day (table D-172). Male FSP smokers smoked *fewer* cigarettes than higher-income male smokers (79 cigarettes in the past 5 days vs. 90). There were no overall between-group differences for females.

Mean Age Began Smoking

On average, smokers began smoking at about 17 years of age (table D-173). FSP participants started smoking at a younger age than either group of nonparticipants (figure 50 and table D-173). The mean age at which FSP participants became regular smokers was 16.3 years, compared with 17.0 years and 17.2 years, respectively, for income-eligible nonparticipants and higher-income nonparticipants. The difference between FSP participants and income-eligible nonparticipants was attributable primarily to a difference among females. Differences between FSP participants and higher-income nonparticipants were noted for both males and females.

Figure 50—Mean age when became a regular smoker



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Exposure to Second-Hand Smoke

NHANES-III gathered information on the number of smokers living in each household and the number of cigarettes smoked by those individuals. These data reveal that nonsmoking FSP participants were more likely than either group of nonsmoking nonparticipants to be exposed to second-hand smoke produced by other household members (table D-174). Thirty-four percent of nonsmoking FSP participants (including infants and children) lived in homes where there was at least one smoker. Comparable figures for nonsmoking nonparticipants were 26 percent for income-eligible nonparticipants and 18 percent for higher-income nonparticipants. This pattern was observed for both males and females, although the difference between FSP participants and income-eligible nonparticipants was not statistically significant for the gender-specific comparisons.

The exposure of infants and young children to second-hand smoke is of special concern. FSP infants under a year of age were more likely than infants in either of the nonparticipant groups to be exposed to second-hand smoke (table D-174). Moreover, FSP children between the ages of 1 and 5 were more likely to be exposed to second-hand smoke than comparably aged children in the higher-income nonparticipant group.

Based on the mean number of cigarettes smoked per day by smokers in their households, FSP nonsmokers were exposed to significantly greater amounts of second-hand smoke than

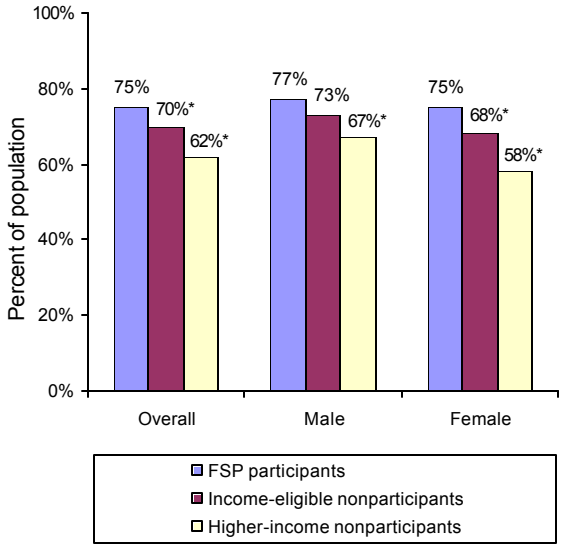
nonsmokers in either of the nonparticipant groups (table D-175). Smokers in households where FSP nonsmokers resided smoked 18 cigarettes per day, on average, compared with 14 cigarettes per day for both groups of nonparticipants. This pattern was noted for both males and females.

NHANES-III measured serum cotinine levels in all respondents 4 years and older. Cotinine is a breakdown product of nicotine that is used as a biological marker for tobacco use and exposure to environmental tobacco smoke. The results of the serum cotinine tests were consistent with the preceding findings about differences between groups in exposure to second-hand smoke. Overall, 75 percent of FSP nonsmokers had high serum cotinine levels, compared with 70 percent of nonsmokers in the income-eligible nonparticipant group and 62 percent of nonsmokers in the higher-income nonparticipant group (figure 51 and table D-176). This pattern was noted for both males and females; however, the difference between FSP participants and income-eligible nonparticipants was not statistically significant for males.

Statistically significant differences between FSP participants and income-eligible nonparticipants were concentrated among the youngest age groups (children and adolescents between 4 and 19). Differences between FSP participants and higher-income nonparticipants were observed in these age groups as well as among several gender-and-age specific groups of adults.

Perhaps most alarming is the high prevalence of abnormal serum cotinine levels in children, which was exceptionally high for FSP participants. Among 6-11-year-olds, for example, more than 85 percent of FSP participants had high serum cotinine levels, compared with 69 percent and 62 percent for the two groups of nonparticipants. The data suggest that between-group differences may be even more dramatic for 4-5-year-olds; however, the point estimate for FSP participants in this age group is statistically unreliable.

Figure 51—Percent of nonsmokers with high serum cotinine levels



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Chapter Six

Health Status, Conditions, and Risks

This chapter describes the health status of FSP participants and nonparticipants. The discussion is divided into six main topic areas: general health status, health conditions and risks of adults, pregnancy and childbirth, birth characteristics of infants and children, measures of childhood health, and dental health. The chapter includes both self-reported data and data from physical and dental exams. Self-reported data for infants and children were provided by parents or other caregivers. For some measures—specifically, ratings of general health status and reported prevalence of high blood pressure—both self-reported and physician-reported data are presented.

General Health Status

NHANES-III collected information on general health status through self-reports as well as physician assessments. In both cases, response options were: excellent, very good, good, fair, and poor.

Fifty-seven percent of all persons rated their health status as very good or excellent and 14 percent rated their health as fair or poor (tables D-177 and D-178). In general, as age increased, the percentage of individuals reporting very good or excellent health decreased and the percentage reporting fair or poor health increased (statistical significance of age-based differences not tested). The pattern was similar for males and females.

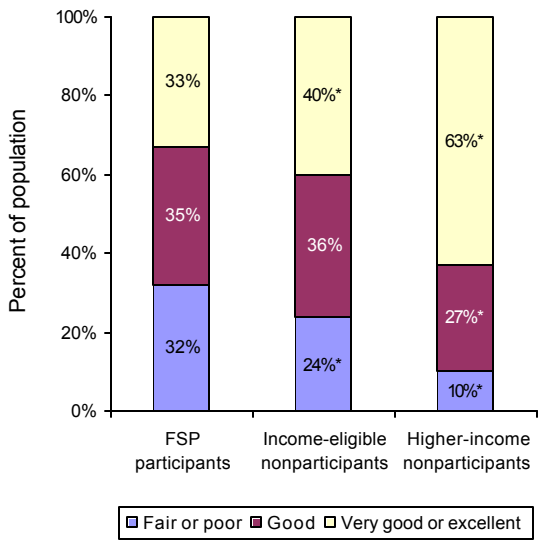
FSP participants had a more negative perception of their health status than either income-eligible or higher-income nonparticipants. FSP participants were *less* likely than either group of nonparticipants to rate their health status as being very good or excellent and *more* likely to rate their health status as fair or poor (figure 52). About a third of FSP participants rated their health status as very good or excellent. This compares with 40 percent of income-eligible nonparticipants and 63 percent of higher-income nonparticipants. Almost a third of FSP participants reported that their health status was fair or poor. The same was true of 24 percent of income-eligible nonparticipants and only 10 percent of higher-income nonparticipants. Comparable patterns were observed for both males and females.

The difference between FSP participants and income-eligible nonparticipants was concentrated among adults 50 years and older (tables D-177 and D-178). In contrast, differences between FSP participants and higher-income nonparticipants were noted for all age groups.

Physician assessments of general health status were consistently more positive than self-assessments; however, the general trends were largely consistent with those observed in the self-reported data. For example, the physician-assessment data confirm that, in comparison with both groups of nonparticipants, FSP participants were *less* likely to be in excellent or very good health and *more* likely to be in fair or poor health (figure 53 and tables D-179 and D-180).

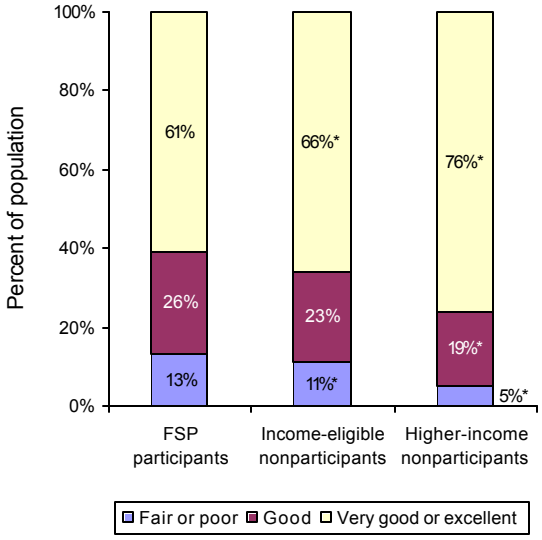
Physicians rated 61 percent of FSP participants as being in excellent or very good health, compared with 66 percent of income-eligible nonparticipants and 76 percent of higher-income nonparticipants. Thirteen percent of FSP participants were described as being in fair or poor

Figure 52—Self-reported general health status



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 53—Physician-assessed general health status



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.1

health. Comparable figures for income-eligible nonparticipants and higher-income nonparticipants were 11 percent and 5 percent, respectively.

Health Conditions and Risks of Adults

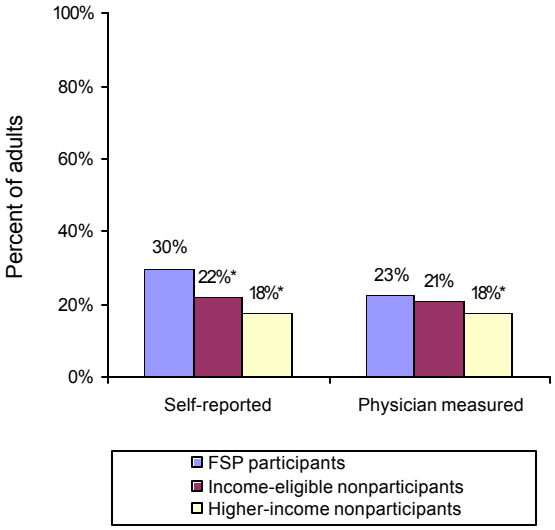
High Blood Pressure

The leading chronic health problem reported by adults in all three groups was high blood pressure. FSP participants were more likely than either income-eligible nonparticipants or higher-income nonparticipants to report having high blood pressure (figure 54 and table D-181). Thirty percent of FSP participants reported high blood pressure, compared with 22 percent of income-eligible nonparticipants and 18 percent of higher-income nonparticipants. This pattern was noted for both males and females (table D-181).

For the population as a whole, statistically significant differences between FSP participants and income-eligible nonparticipants were concentrated among adults between 40 and 69 years of age. Significant differences between FSP participants and higher-income nonparticipants were noted for all but the two oldest age groups (70-79 years and 80 and older).

The actual prevalence of high blood pressure, as measured in physical exams, was consistent with self-reported data for income-eligible nonparticipants and higher-income nonparticipants, but

Figure 54—Self-reported high blood pressure vs. physician-assessed high blood pressure



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

was somewhat lower than the self-reported prevalence for FSP participants (23% vs. 30%) (figure 54 and table D-182) (statistical significance of difference between two data sources not tested). Based on physician assessment, there was no significant difference between FSP participants and income-eligible nonparticipants in the prevalence of high blood pressure. In comparison with higher-income nonparticipants, however, FSP participants were more likely to have high blood pressure (23% vs. 18%). This difference was largely attributable to a difference among females (23% vs.16%) (table D-182).

Other Chronic Conditions

Adult NHANES-III respondents were asked if a physician had ever told them that they had specific types of health conditions (other than high blood pressure). Queried conditions include diabetes, heart attack, stroke, emphysema, congestive heart failure, and cancer other than skin cancer.

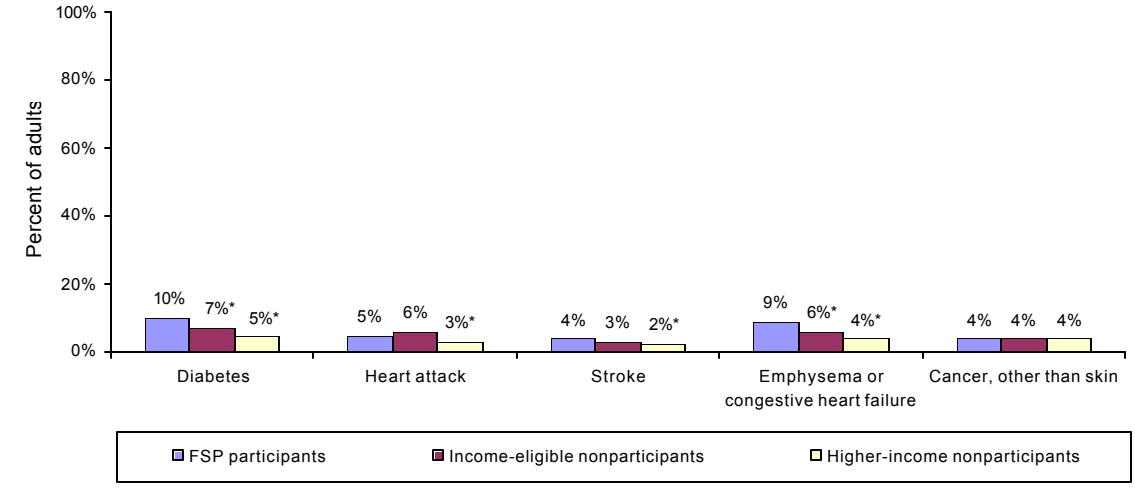
Overall, none of these specific health conditions was reported by more than 5 percent of adults 17 and older (tables D-183 and D-184 and D-186 to D-188). The reported prevalence of all conditions generally increased with age. There was some variation by gender, with the prevalence of heart attack and emphysema or congestive heart failure[1] being somewhat greater for males than for females. The opposite was true of cancers other than skin cancer (statistical significance of age- and gender-based differences not tested).

In comparison with income-eligible nonparticipants, FSP participants were more likely to report diabetes and emphysema or congestive heart failure (figure 55). Disparities between FSP participants and higher-income nonparticipants were more widespread. For all conditions except cancer, the self-reported prevalence was significantly greater for FSP participants than for higher-income nonparticipants.

Between-group differences varied somewhat by gender. Differences between FSP participants and income-eligible nonparticipants in the prevalence of diabetes and congestive heart

[1]Congestive heart failure and emphysema were combined because the prevalence of each condition was so low that most point estimates in the individual tabulations were statistically unreliable.

Figure 55—Percent of adults reporting chronic health conditions



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

failure or emphysema were observed for females but not for males (tables D-183 and D-187). With the exception of the difference in the prevalence of heart attack, differences between FSP participants and higher-income nonparticipants were observed for both males and females. The difference between the two groups in the reported prevalence of heart attack was significant for females but not for males (table D-184).

Risk of Coronary Heart Disease

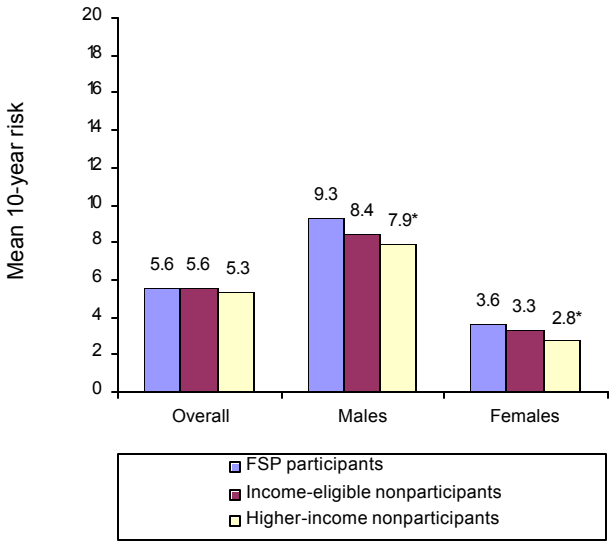
The 10-year risk of coronary heart disease was computed for adults between the ages of 20 and 79, using guidelines developed by the National Cholesterol Education Program (NCEP) (NIH, 2001).[2] An individual's 10-year risk is determined on the basis of age, gender, total cholesterol level, smoking status, level of HDL cholesterol, and systolic blood pressure. Potential levels of risk range from a low of less than 1 percent to a high of more than 30 percent.

Overall, the mean 10-year risk of coronary heart disease for adults 20 and older was 5.3 percent (table D-189). Mean 10-year risks were higher for males than for females (8% vs. 3%) and increased with age (statistical significance of gender- and age-based differences not tested). The age-related increase in risk is at least partially attributable to the scoring algorithm used in assigning risk "points" (NIH, 2001).

As a group, adult FSP participants were at no greater risk of coronary heart disease over the next 10 years than income-eligible adults or higher-income adults (figure 56 and table D-189). On average, adults in all three groups had a 10-year risk of 5 to 6 percent. When the data were examined by gender, however, differences between FSP participants and higher-income nonparticipants emerged. Both FSP males and

[2]The NCEP guidelines define risk only for individuals up to the age of 79.

Figure 56—Mean 10-year risk of coronary heart disease



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

FSP females had significantly greater 10-year risks, on average, than their counterparts in the higher-income nonparticipant group.

There were no significant differences between FSP participants and nonpartipants, overall or among females, in the percentage of individuals with a greater than 10 percent risk of coronary heart disease (table D-190). Among males, however, FSP participants were significantly more likely than higher-income nonparticipants to have a 10-year-risk that exceeded 10 percent (35% vs. 30%).

Pregnancy and Childbirth History

NHANES-III collected a detailed reproductive history for all female respondents 12 and older. Because the prevalence of pregnancy was low among females under the age of 17, tabulations prepared for this report were limited to females 17 and older. Variables analyzed include the percentage ever pregnant, the mean number of pregnancies (among those who had been pregnant), and, among those who had given birth, the mean number of live births, the mean

age at the time of the first live birth, and the percentage who were teenagers or over age 35 at the time of the first live birth.

FSP females were significantly more likely than either income-eligible or higher-income females to have been pregnant one or more times (93% vs. 84% and 78%) (table D-191). Differences were largely concentrated among females between the ages of 17 and 39.

Among females who had ever been pregnant, FSP participants had significantly more pregnancies and more live births than either group of nonparticipants (figure 57 and tables D-192 and D-193). On average, FSP participants had 4.4 pregnancies and 3.4 live births, compared with 3.5 pregnancies and 2.8 live births for income-eligible nonparticipants, and 2.9 pregnancies and 2.1 live births for higher-income nonparticipants.

Female FSP participants were also significantly younger at the time of their first live birth than either income-eligible nonparticipant females or higher-income nonparticipant females (table D-194). FSP females were 19.8 years old, on average, when they gave birth to their first child. Income-eligible nonparticipants were 21.0 years old and higher-income nonparticipants were 22.4 years old.

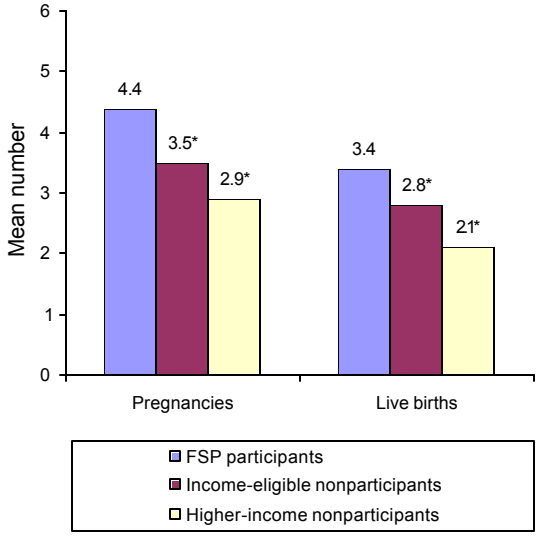
Moreover, the percent of females who were teenagers (19 years or less) at the time of their first live birth was significantly greater for FSP participants than for either group of nonparticipants (figure 58 and table D-195). Fifty-nine percent of FSP participants were teenagers at the time of their first live birth, compared with 47 percent of income-eligible nonparticipants and 30 percent of higher-income nonparticipants.

Overall, only 1 percent of females were 35 or older at the time of their first live birth (table D-196). There were no significant differences between FSP participants and either group of nonparticipants on this measure.

Birth Characteristics of Infants and Children

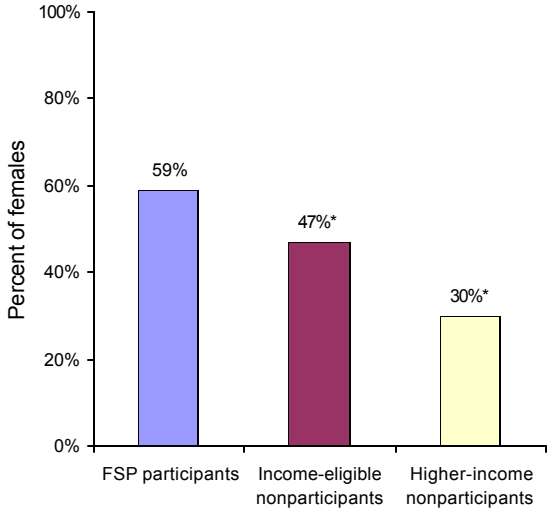
For infants and children under the age of 12, NHANES-III collected data on a number of

Figure 57—Mean number of pregnancies and mean number of live births among females who were ever pregnant



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 58—Percent of females who were teens at the time of their first live birth



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

characteristics of both mother and child at the time of birth. This includes information on maternal age, maternal smoking during pregnancy, the child's birthweight (reported by parent or other caregiver), and receipt of neonatal intensive care services.

Maternal Age

Infants and children in FSP households were born to younger mothers, on average, than infants and children in either income-eligible or higher-income nonparticipant households (23.7 years vs. 24.7 years and 27.0 years) (table D-197). FSP infants and children were also more likely than infants and children in either of the nonparticipant groups to have been born to a teen mother (table D-198). More than a quarter (26%) of infants and children in FSP households were born to teen mothers, compared with 17 percent of infants and children in income-eligible households and 8 percent of infants and children in higher-income households. In addition, FSP infants and children were less likely than higher-income nonparticipant infants and children to have been born to mothers over the age of 35 (4% vs. 6%) (table D-199).

Maternal Smoking During Pregnancy

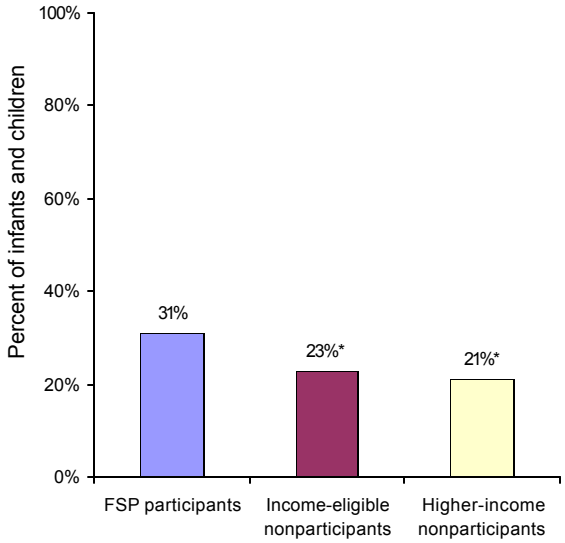
Infants and children participating in the FSP were more likely than either income-eligible or higher-income infants and children to have been born to women who smoked during the pregnancy (figure 59 and table D-200). Thirty-one percent of infants and children in FSP households were born to women who smoked during the pregnancy, compared with 23 percent of income-eligible infants and children and 21 percent of higher-income infants and children.

Birthweight (Self-Report)

Based on self-reported data, infants and children participating in the FSP had significantly lower birthweights, on average, than either income-eligible nonparticipants or higher-income nonparticipants (figure 60 and table D-201). Overall, the mean birthweight for FSP infants and children was 3,179 gm. (7.0 pounds), compared with 3,312 gm. (7.3 pounds) for income-eligible infants and children, and 3,433 gm. (7.6 pounds) for higher-income nonparticipants. The difference between FSP participants and income-eligible nonparticipants was due primarily to a difference in the oldest group of children (6-11-year-olds). Differences between FSP participants and higher-income nonparticipants were noted for all age groups.

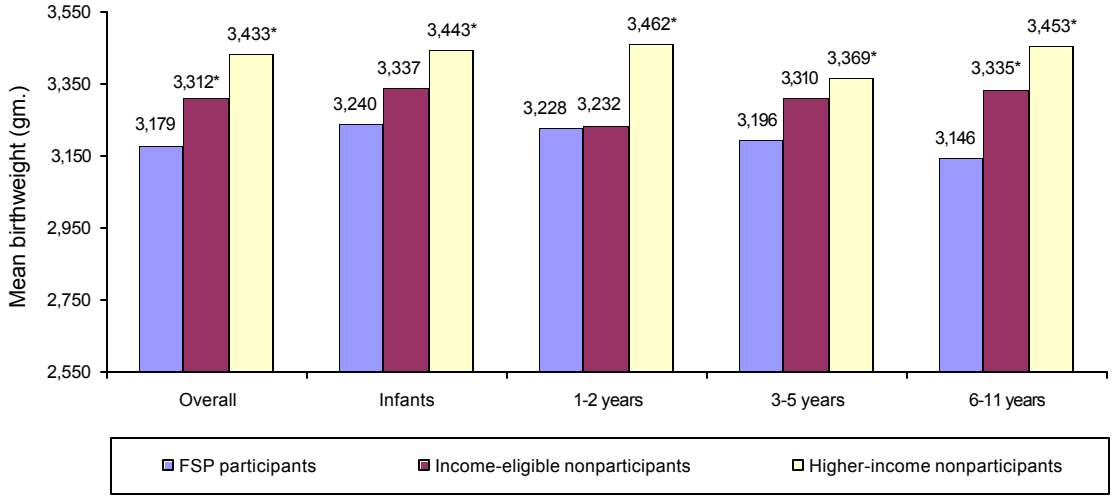
Self-reported data on birthweight also indicate that infants and children in FSP households were more likely than infants and children in either of the two nonparticipant groups to have been low birthweight (less than 2,500 gm. or 5.5 pounds) (figure 61 and table D-202). The reported prevalence of low birthweight among FSP participants (13%) was 63 percent higher than the prevalence among income-eligible nonparticipants (8%) and more than 2.5 times that of higher-income nonparticipants (5%). Again, the

Figure 59—Percent of infants and children whose mothers smoked during pregnancy



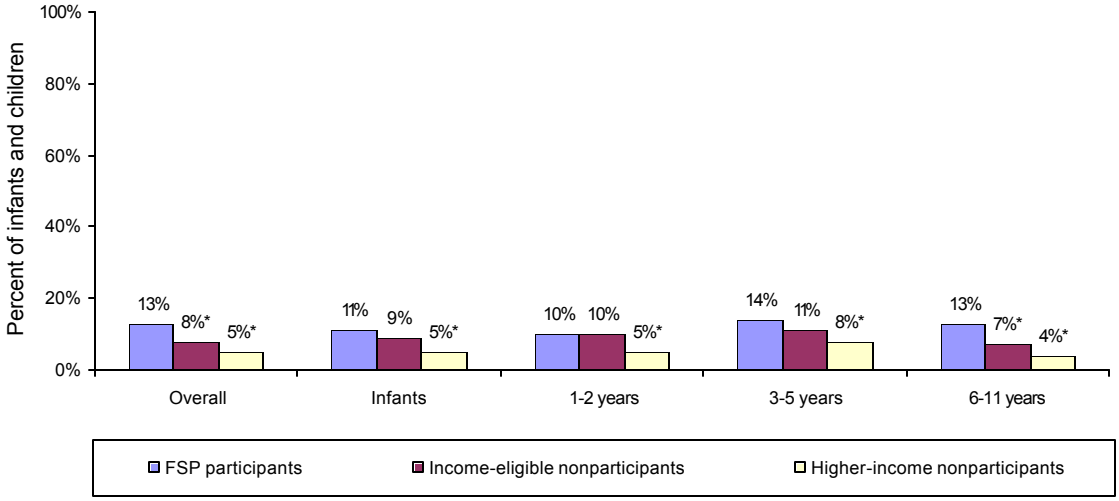
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 60—Reported mean birthweight of infants and children



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 61—Percent of infants and children born low birthweight, based on reported birthweight



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

difference between FSP participants and income-eligible nonparticipants was concentrated in the 6-11-year-old age group, while significant differences between FSP participants and higher-income nonparticipants were noted for all age groups.

Overall, there were no statistically significant between-group differences in the prevalence of very-low birthweight (less than 1,500 gm. or 3.3 pounds) (table D-203).

Neonatal Intensive Care Stays

Eleven percent of all infants and children under age 12 were reportedly hospitalized in neonatal intensive care units (NICUs) at the time of their birth (table D-204). FSP infants and children were more likely than higher-income infants and children to have received NICU care (14% vs. 11%). This difference was concentrated among 6-11-year-olds.

Measures of Childhood Health

This section presents data on a variety of measures related to childhood health. Topics include hospitalizations since birth, accidents, injuries, and poisonings requiring medical attention, chronic respiratory conditions, and lead poisoning.[3] Data on lead poisoning include parent/caregiver reports on prior lead screening and measured levels of blood lead. All other data are self-reported.

Hospitalizations Since Birth

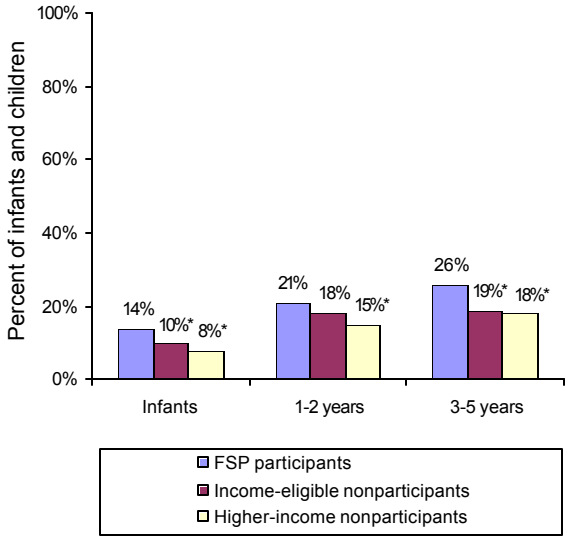
About a quarter (26%) of infants and children up to age 16 had been hospitalized at least once since birth (table D-205). The percentage of children with hospitalizations since birth is a cumulative measure that increases with age. Between-group differences were concentrated among infants and children under 6. Among infants and 3-5-year-olds, the percentage of FSP participants who had been hospitalized at least once was significantly greater than the percentage for either income-eligible or higher-income nonparticipants (figure 62). Among older children, the gaps between FSP participants and the two groups of nonparticipants were considerably narrowed and, consequently, there were no significant between-group differences (table D-205).

Accidents, Injuries, and Poisonings Requiring Medical Attention

Parents and caregivers were asked whether infants or children had experienced an accident, injury, or poisoning, anytime during the preceding 12 months, that was serious enough to require medical attention. Overall, 14 percent of infants and children under 16 had at least one such experience (table D-206).

There was no significant difference between FSP participants and income-eligible nonparticipants on this measure. However, in comparison

Figure 62—Percent of infants and children with at least one hospitalization since birth



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

[3]Caregivers were also asked whether children had several other health conditions, including high cholesterol, diabetes, and high blood pressure. However, because the percentages of children reported to have any of these conditions were very low, the data were not tabulated for this report.

with higher-income nonparticipants, infants and children participating in the FSP were significantly less likely to have experienced such medical emergencies (9% vs. 16%). This difference, which may reflect parental response as well as relative severity of a child's condition, was concentrated in the two oldest age groups (6-11-year-olds and 12-16-year-olds).

Chronic Respiratory Conditions

Parents and caregivers were asked whether a health professional had ever told them that their infant or child had asthma, chronic bronchitis, or hay fever. The reported prevalence of all of these conditions was relatively low, overall, with asthma being the most common (10%) (table D-207) and chronic bronchitis being the least common (4%) (table D-208).

The prevalence of all three respiratory conditions was essentially equivalent for FSP participants and income-eligible nonparticipants (tables D-207 to D-209). Compared with higher-income nonparticipants, however, FSP infants and children under the age of 6 were more likely to have both asthma and chronic bronchitis. In addition, FSP children between 3 and 16 were significantly *less* likely to have hay fever than comparably aged higher-income children.

Lead Poisoning

Parents and caregivers were asked whether children had been screened for lead poisoning. Caregivers of children who had been screened were asked whether the results indicated that the child had "high lead or lead poisoning."

Overall, about 9 percent of infants and children 16 and under had been screened for lead poisoning (table D-210). Infants and children participating in the FSP were significantly more likely than infants and children in either group of nonparticipants to have been screened. Seventeen percent of FSP infants and children had been tested for lead poisoning, compared with 10 percent of income-eligible nonparticipant infants and children and 6 percent of higher-income nonparticipant infants and children.

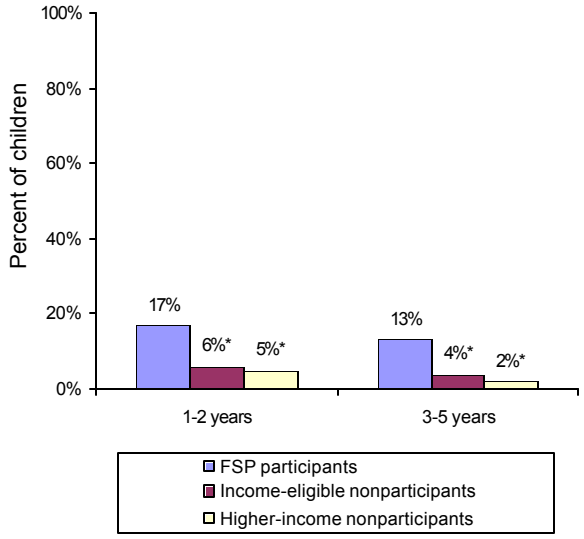
According to caregiver reports, the percentage of infants and children found to have lead poisoning was very low, less than 1 percent overall (table D-211). Nonetheless, the percentage of FSP participants reportedly diagnosed with lead poisoning was significantly greater than the percentage of higher-income nonparticipants (the point estimate for higher-income nonparticipants is statistically unreliable).

Based on NHANES-III laboratory tests and CDC-defined standards for elevated levels of blood lead, the actual prevalence of lead poisoning was substantially greater than reported by caregivers.[4] Overall, 3 percent of children between 1 and 16 were found to have high levels of blood lead, indicative of lead poisoning (table D-212). Prevalence was highest among the youngest age groups. Overall, 8 percent of 1-2-year-olds and 5 percent of 3-5-year-olds had high levels of blood lead.

FSP children were significantly more likely than children in either of the nonparticipant groups to have high levels of blood lead. Seventeen percent of 1-2-year-old FSP participants and 13 percent of 3-5-year-old FSP participants had abnormally high levels of lead in their blood (figure 63). Comparable statistics for nonparticipants were 6 percent and 4 percent, respectively, for income-eligible nonparticipants, and 5 percent and 2 percent, respectively, for higher-income nonparticipants. A similar pattern of differences was observed for 6-11-year-olds and 12-16-year-olds; however, most of the point

[4]The two measures are not directly comparable because (a) not all children had been screened for lead poisoning prior to NHANES-III, (b) screenings that were reported could have taken place anytime in the past, and (c) tabulations of self-reported data include infants, while data on lab values are limited to children 1 year and older.

Figure 63—Percent of children with high blood lead levels



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

estimates for these age groups are statistically unreliable (table D-212).

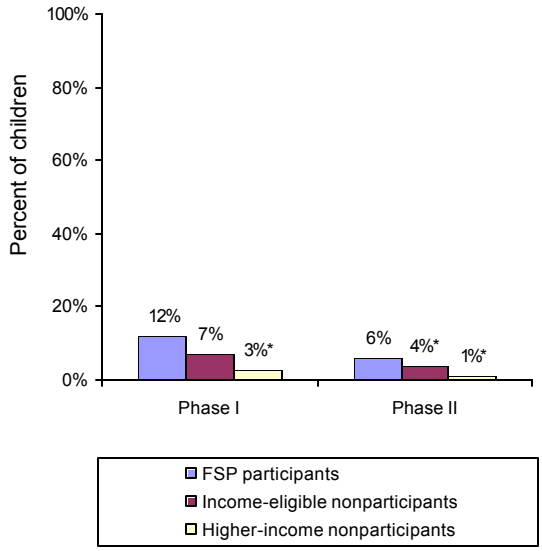
In recent years, the prevalence of lead poisoning has been declining sharply in the U.S. Between NHANES-II (1976-80) and the first phase of NHANES-III (1988-91), the overall prevalence of lead poisoning in the population as a whole decreased from 77.8 percent to 4.4 percent (CDC, 1997). Moreover, between Phase I (1988-91) and Phase II (1991-94) of NHANES-III, the overall prevalence of high blood lead levels continued to decline, with percentage point decreases generally being greater among groups with the highest prevalence of elevated lead levels during Phase I (CDC, 1997).

Tables D-213 and D-214 present data on the prevalence of elevated blood lead levels among children ages 1 to 16 in Phase I and Phase II of the NHANES-III data collection. (The data reported in table D-212 reflect the complete NHANES-III sample). The overall prevalence of elevated blood lead levels decreased by 51 percent between Phase I and Phase II (4.5% vs. 2.2%).

Figure 64 illustrates the decrease in the prevalence of high blood lead levels over the period of the NHANES-III data collection for FSP participants and both groups of nonparticipants. The decrease for FSP participants was approximately 47 percent, from a prevalence of 11.7 percent in Phase I to 6.2 percent in Phase II. The decrease for income-eligible nonparticipants was comparable percentage-wise, going from 6.7 percent in Phase I to 3.5 percent in Phase II. The decrease for higher-income nonparticipants was greater than for either of the other groups, moving from 3.3 percent in Phase I to 1.3 percent in Phase II (a decrease of about 61 percent).

Because of the declining prevalence of high blood lead levels over time, Phase II data provide the most accurate assessment of the prevalence of lead poisoning available from NHANES-III. These data indicate that, in 1991-94, FSP children were significantly more likely than either group of nonparticipating children to have levels of blood lead (6% vs. 4% and 1%).

Figure 64—Percent of children with high blood lead levels: NHANES-III, Phase I and Phase II



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

This pattern was noted for all but the oldest children (table D-214).

Dental Health

All NHANES-III respondents 2 years and older received a dental exam as part of the physical examination component. In this exam, all decayed, missing, and filled teeth were charted.

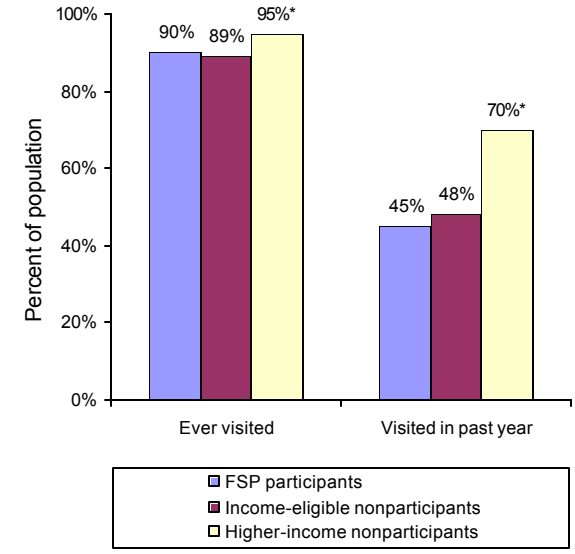
The average number of missing, decayed, and filled teeth for the population overall was 11.8 (table D-215). Means were comparable for males and females and, as expected, the number of missing, decayed, and filled teeth increased with age (statistical significance of gender- and age-based differences not tested).

Overall, the mean number of missing, decayed, and filled teeth was comparable for FSP participants and each group of nonparticipants. However, there was some variation in between-group differences by age and, to a lesser extent, gender. Specifically, among adults 80 and older, the mean number of missing, decayed, and filled teeth was significantly higher for FSP participants than for either group of nonparticipants (26 vs. 24 vs. 23). In addition, among children 2–11 years and adults 60-69 years, FSP participants had more missing, decayed, or filled teeth than higher-income nonparticipants. The between-group difference for 60-69-year-olds was concentrated among females. Finally, among females 40-49 years, the trend was reversed. In this cohort, FSP participants had significantly fewer decayed, missing, or filled teeth than either group of nonparticipants (14 vs. 17 and 16).

Visits to a Dentist or Dental Hygienist

FSP participants and income-eligible nonparticipants visited dentists and/or dental hygienists at roughly the same rate (figure 65 and tables D-216 and D-217). However, FSP participants were significantly less likely than higher-income nonparticipants to have visited a dental health professional. Overall, 90 percent of FSP participants had visited a dental health professional at least once, compared with 95 percent of higher-income nonparticipants. Only 45 percent of FSP participants reported having seen a dentist or hygienist within the past year, compared with 70 percent of higher-income nonparticipants. For recent dental visits, differences between FSP participants and higher-income nonparticipants were statistically significant for virtually all age and gender groups.

Figure 65—Percent of persons who have visited a dentist or dental hygienist



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Chapter Seven

Access to Health Care Services

This chapter focuses on issues that affect individuals' access to and use of health care services—health insurance coverage, the availability of a regular source (location) of health care, and the availability of a regular physician or other health care provider. The chapter also describes utilization of health care services in the past year.

Health Insurance Coverage

NHANES-III asked all respondents about sources of health insurance coverage. Survey questions considered Medicare, Medicaid, Veteran's Administration (VA) benefits, CHAMPUS, CHAMPVA, and private health insurance.[1]

During the survey period, four versions of the interview used to gather this information were used and health insurance questions varied across versions. The major difference was the time frame referenced; for example, "now" vs. "in the last month." In addition, some questions had slight variations in wording across versions. When differences in versions were considered slight, NHANES-III staff created the variable for the full survey time period. All variables used in this analysis were available for the full survey period except the question about receipt of CHAMPUS, CHAMPVA, VA benefits, and military health care.[2] The prevalence of this type of insurance coverage was calculated using data for respondents who answered that question. These data were not tabulated separately because of very low prevalence, but contributed to overall estimates of health insurance coverage.

The vast majority of persons (88%) had some form of health insurance (table D-218). FSP participants were *more* likely than income-eligible nonparticipants and *less* likely than higher-income nonparticipants to have health insurance (figure 66). Overall, 81 percent of FSP participants had health insurance, compared with 67 percent of income-eligible nonparticipants and 93 percent of higher-income nonparticipants. This general pattern was noted for both males and females, overall. However, the pattern of between-group differences varied somewhat by age, as described below.

Among preschool-age children (1 to 5 years), the difference between FSP participants and higher-income nonparticipants was not statistically significant. In these age groups, only about 5 percent of FSP participants and a comparable percentage of higher-income nonparticipants were lacking insurance (figure 67). In contrast, 23 to 26 percent of income-eligible nonparticipants in this age group had no health insurance. Differences between FSP participants and

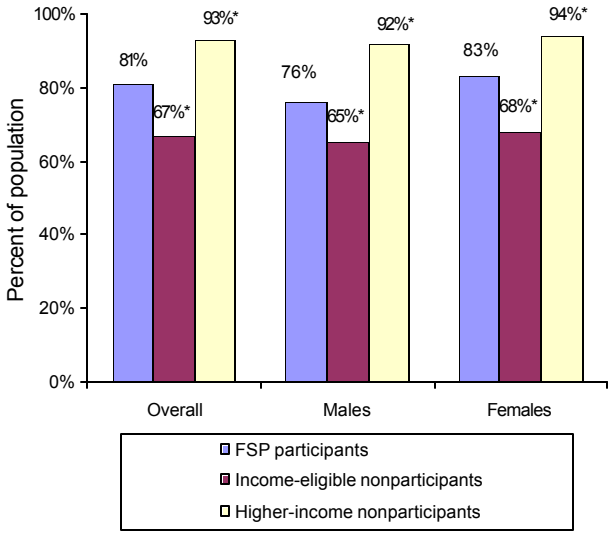
[1]CHAMPUS (now known as TRICARE) is a health care benefits program for active duty and retired members of the military. CHAMPVA is a health care benefits program for permanently disabled veterans and their dependents.

[2]Version differences for health insurance questions varied for different sources of health insurance. Two versions of the Medicare and Medicaid questions were asked: "At any time DURING THE LAST 12 MONTHS were you covered by Medicare/Medicaid?" and "DURING THE LAST MONTH were you covered by Medicare/Medicaid?"

The question about CHAMPUS, CHAMPVA, verteran's administration benefits, and military health care was not asked in the first version of the interview (46% of respondents), and two versions of the question were used in the three interview versions that did include the question: "DURING THE PAST 12 MONTHS were you covered by……?" and "DURING THE LAST MONTH were you covered by……"

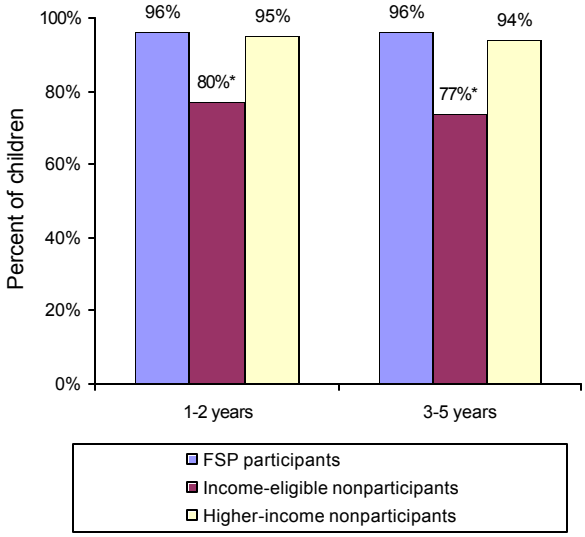
Three versions of the private health insurance question were asked: "Are you NOW covered by a health insurance plan?", "Are you covered by a health insurance plan?" and "During the LAST MONTH were you covered by a health insurance plan obtained privately or through an employer or union?"

Figure 66—Percent of persons with any health insurance coverage



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 67—Percent of preschool children with any health insurance coverage



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

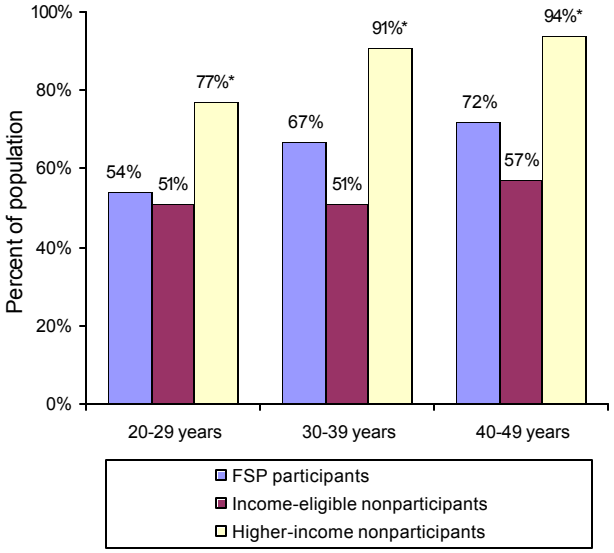
income-eligible nonparticipants were statistically significant. A comparable pattern was observed for infants; however, the data are not presented in figure 67 because the point estimate for FSP participants is statistically unreliable.

Among the oldest adults (70 years and older), there were essentially no significant differences between FSP participants and either group of nonparticipants (table D-218). In this age cohort, close to 100 percent of the individuals in all three participant/nonparticipant groups were covered by some form of insurance.

Among other adults (20 to 69 years), the difference between FSP participants and higher-income nonparticipants was generally statistically significant. However, the significance of the difference between FSP participants and income-eligible nonparticipants varied by gender. Among males, there were no significant differences between FSP participants and income-eligible nonparticipants in rates of insurance coverage (figure 68).[3] This pattern was also observed for females between 50 and 69 years

[3]Figure 68 does not show data for males 50-59 and 60-69 because most of the point estimates are statistically unreliable (see table D-218).

Figure 68—Percent of adult males with any health insurance coverage



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

of age. Among women of childbearing age (20-49 years), however, FSP participants were significantly more likely than income-eligible nonparticipants to have health insurance (figure 69).

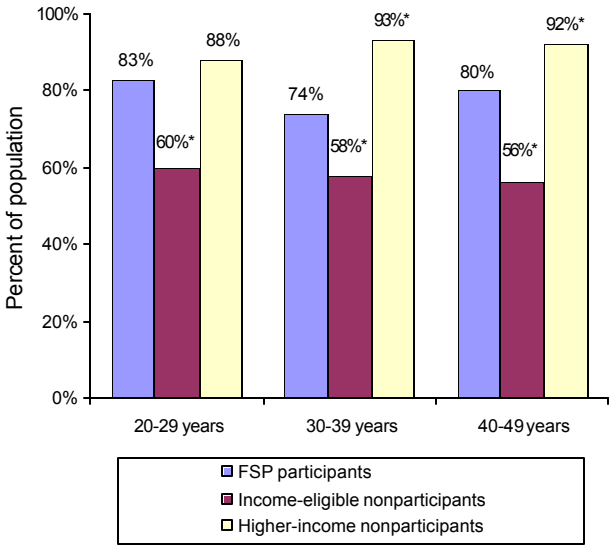
FSP participants were significantly *more* likely to have Medicaid coverage and significantly *less* likely to have private health insurance than either income-eligible nonparticipants or higher-income nonparticipants (figure 70 and tables D-219 and D-220). Overall, 59 percent of FSP participants received Medicaid benefits, compared with 15 percent of income-eligible nonparticipants and 2 percent of higher-income nonparticipants. Only 26 percent of FSP participants had private health insurance coverage, compared with 48 percent of income-eligible nonparticipants and 89 percent of higher-income nonparticipants. This pattern was observed for most gender-and-age-specific subgroups.

Regular Source of Health Care

More than 8 out of 10 persons had a regular source of health care—that is, a clinic, health center, or doctor's office that was usually used for health care needs or to obtain health-related advice and information (table D-221). FSP participants were *more* likely than income-eligible nonparticipants and *less* likely than higher-income nonparticipants to have a regular source of health care (figure 71). Eighty-one percent of FSP participants had a regular source of health care, compared with 74 percent of income-eligible nonparticipants and 84 percent of higher-income nonparticipants. This pattern was observed for both males and females.

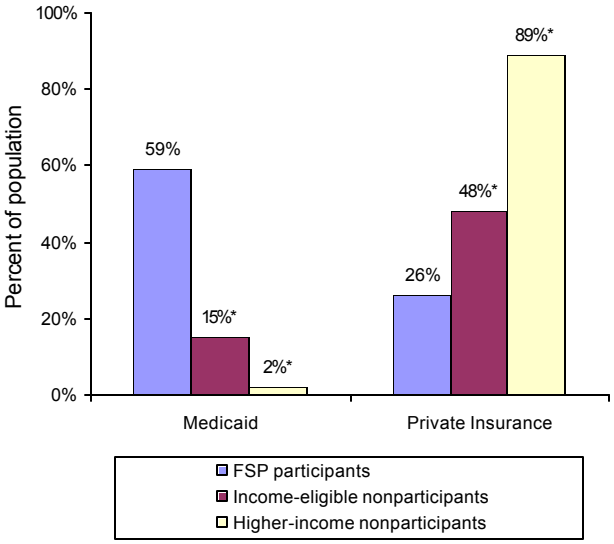
There were no significant differences between FSP participants and income-eligible nonparticipants in the percent of persons who reportedly had a regular physician or other health care provider (figure 72 and table D-222). In comparison with higher-income nonparticipants, however, FSP participants were significantly less likely to have a regular health care provider (63% vs. 73%). These patterns were noted for both males and females. Differences for the population as a whole were concentrated among infants, children, adolescents, and adults less than 50 years of age.

Figure 69—Percent of females of child-bearing age with any health insurance coverage



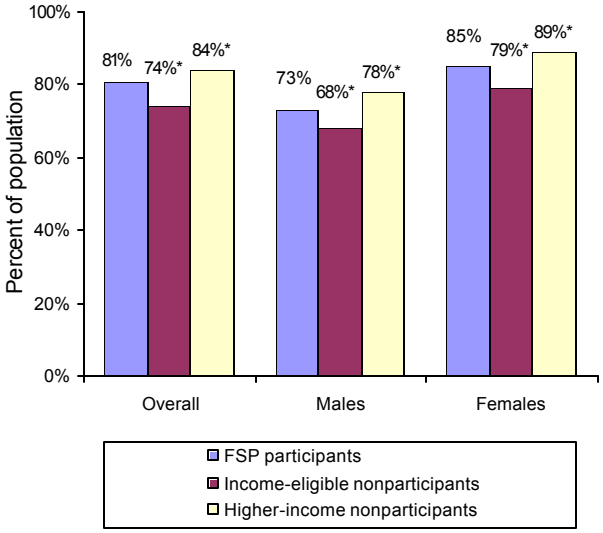
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 70—Percent of persons with Medicaid and percent with private health insurance



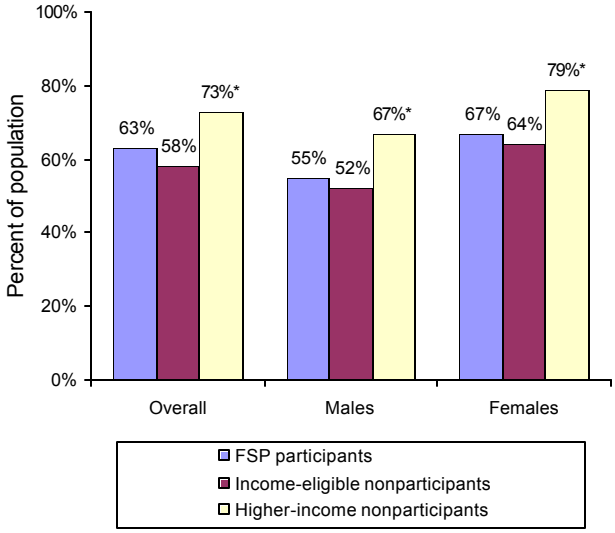
*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 71—Percent of persons with a regular source of health care



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Figure 72—Percent of persons who see a regular physician or other health care provider



*Statistically significant difference from FSP participants at the .05 level or better.
Source: NHANES-III, 1988-94.

Use of Health Care Services in the Past Year

More than a quarter (77%) of all persons reported seeing a physician or other health care provider at least once during the preceding 12 months (excluding overnight hospital stays) (table D-223). There was no overall difference between FSP participants and higher-income nonparticipants in this regard (79% vs. 78%). In comparison with income-eligible nonparticipants, however, FSP participants were significantly more likely to have seen a health care provider at least once during the past year (79% vs. 72%). These patterns were observed for both males and females. The difference between FSP participants and income-eligible nonparticipants was largely attributable to differences among women between 20 and 39 years of age.

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Appendix A
NHANES-III Data Files

NHANES-III included a number of different interviews as well as a comprehensive physical examination. Most interview data were collected through 'household interviews,' which were conducted in respondents' homes. Physical exams were generally conducted in Mobile Exam Centers (MEC), although home examinations were offered if the sample person was 2-11 months, 60 years or older and wheelchair-bound, or primarily bedridden. The home examination included a subset of the measures collected in the MEC. Additional interview data were collected at the time of the exam. The content of these interviews varied for adults and youth and included questions about use of alcohol and tobacco, physical activity, reproductive health, and selected aspects of diet.

The organization of NHANES-III data files corresponds to the origin of the data—household interviews or examinations. The four main data files are:

- ***Household adult data file***—contains data from the household interview on individual demographics, household composition, family background, family characteristics, health insurance, health services, selected health conditions, reproductive health, functional impairment, physical activity, use of tobacco and alcohol, and vitamin and mineral supplements.

- ***Household youth data file***—parallels the adult data file, with the exception of questions that cover physical activity, use of tobacco and alcohol, reproductive health, and selected diet-related topics (e.g., dieting). These topics were included as part of the MEC youth interview, which was completed by youth 8 years of age and older, generally without caregiver involvement. In addition, the youth file contains data on some topics not included in the adult file. This includes data on birth characteristics, infant feeding practices, and television viewing.

- ***Examination data file***—contains results of the physical examinations conducted in the MEC or at home, and data from interviews conducted in the MEC.

- ***Laboratory data file***—contains results of laboratory tests on blood samples collected in the MEC.

The origin of each data item determines the sample for analysis. NHANES-III provides sample weights for three samples: interview-only, MEC-examined, and home-examined. The sample sizes for these samples are shown in Chapter One, table 1. The sample weight used for each tabulation is specific to the data item tabulated. Source notes at the bottom of each detailed table (appendix D) identify the NHANES-III data file used in the tabulation.

In addition to the four main data files, NHANES-III released several dietary recall data files and supplementary files containing constructed variables or raw data unavailable at the initial release date. The additional files used for this series of reports are:

- ***Dietary recall data files***—contain information about individual foods, combination foods, and ingredients reported during 24-hour recalls. The file includes nutrient values from two different nutrient databases—the USDA Survey Nutrient Data Base and the nutrient data base maintained by the University of Minnesota's Nutrition Coordinating Center (NCC). All of the nutrient analyses presented in this series of reports are based on nutrient values from the USDA Survey Nutrient Data Base.

- ***Healthy Eating Index (HEI) file*—**contains HEI scores (based on NHANES-III 24-hour dietary recalls) based on the measure developed by the U.S. Department of Agriculture to measure overall dietary quality (Kennedy et al., 1995).

Subgroups Used for Tabulations

Each volume of this report examines specific subgroups of the low-income population (volume I: Food Stamp Program participants and nonparticipants; volume II: WIC Program participants and nonparticipants; volume III: school-age children; and volume IV: older adults.) In the detailed tables provided in each volume (appendix D), table columns correspond to subgroups defined by program participation and/or income level, and table rows present information for gender- and age-specific subgroups. The subgroup definitions used for each volume of the report, and the NHANES-III variables used to identify persons in each subgroup, are summarized in table A-1.

Survey questions about program participation and income level each suffered some degree of nonresponse. Table A-2 shows cell sizes for the various age/gender/income or program participation subgroups reported on in this particular volume. Cell sizes are shown for all subgroups, including those with missing income or program participation. In appendix D tables, the final column is suppressed due to small cell sizes, although the "Total Persons" or "All Children" columns include individuals with missing program participation or income.

The age groups shown in Table A-2 were used for most of the tabulations included in appendix D. A smaller number of age groups, however, are used for the analysis of dietary intake data and related variables for consistency with the *Dietary Reference Intakes* (DRIs).

Table A-1—Subgroup definitions

	Definition	Data Items[a]
Groups included in volume		
Volume I: Food Stamp Program participants and nonparticipants	Total population	
Volume II: WIC Program participants and nonparticipants	Children	12 ≤ HSAITMOR < 60
	Infants	2 ≤ HSAITMOR < 12
	Postpartum women	
	Breastfeeding up to 12 months postpartum	(MYPC25 = 1 or MAPF20 = 1) and (1 ≤ MYPC20 ≤ 4 or 1 ≤ MAPF15 ≤ 4)
	Non-lactating up to 6 months postpartum	(MYPC25 = 2 and MAPF20= 2) and (1 ≤ MYPC20 ≤ 2 or 1 ≤ MAPF15 ≤ 2)
	Pregnant women	MYPC17 = 1 or MAPF12 = 1
Volume III: School-age children and adolescents	Age 5-18 years and in school	(5 ≤ HSAGEIR ≤ 16 & 1 ≤ HYJ7 ≤ 2) or (17 ≤ HSAGEIR ≤ 18 & HAS22 = 4 & 0 < HFA8R < 12)
Volume IV: Older Adults	Age 60 years and older	HSAGEIR ≥ 60
Column definitions		
Volume I	Currently receiving food stamps	HFF11 = 1
	Income-eligible nonparticipant	HFF11 = 2 and 0 ≤ DMPPIR ≤ 130
	Higher-income nonparticipant	HFF11 = 2 and DMPPIR > 130
Volume II	Current WIC participant[c]	MAPF17 = 1 or MYPC22 = 1 or MPPB6 = 1
	Income-eligible nonparticipant	(MAPF17 = 2 & MYPC22 = 2 & MPPB6 = 2) and 0 < DMPPIR ≤ 185
	Higher-income nonparticipant	(MAPF17 = 2 & MYPC22 = 2 & MPPB6 = 2) and DMPPIR > 185
Volumes III and IV	Income ≤ 130% poverty or current FSP participant	HFF11=1 or (HFF11=2 and 0 ≤ DMPPIR ≤130)
	Income 131-185% poverty	HFF11=2 and 130 < DMPPIR ≤ 185
	Income > 185% poverty	HFF11=2 and DMPPIR > 185
Row definitions		
	Gender[b]	HSSEX
	Age	HSAGEIR (Age at household interview[b])

[a] Program participation and income variables:

HFF11 = "(Are you / Is your family) receiving food stamps at the present time?" (Household interview)

MAPF17, MYPC22, MPPB6 = "Are you now receiving benefits from the WIC program?" (MEC-adult, MEC-youth, MEC-proxy) If WIC participation is missing, and response to household interview question (HFF9) "Did you or any member of this family receive benefits from the WIC program LAST MONTH?" is "no" then sampled person is assumed to be a nonparticipant.

DMPPIR = Poverty income ratio (Household interview)

[b] Gender not tabulated in Volume II.

[c] Age at household interview defines table rows; age in months at the MEC examination was used to assess children's height and weight relative to growth curves.

[d] WIC participation of the sampled person is measured during the MEC examination interview and all WIC tables are limited to MEC respondents. The household interview included a question about WIC participation by any member of the family (HFF9), and this question was used to establish nonparticipation in the case of nonresponse to the MEC WIC question.

Table A-2—Number of NHANES-III respondents grouped by FSP participation and income

	NHANES-III respondents to household interview				
	Total Persons	Currently Receiving Food Stamps	Income-eligible Nonparticipants	Higher-income Nonparticipants	FSP participation or income missing
Both sexes					
Under 1 year	2,107	502	340	1,131	134
1-2 years	2,689	851	510	1,134	194
3-5 years	3,465	1,083	720	1,462	200
6-11 years	3,467	992	708	1,540	227
12-19 years	3,441	828	761	1,568	284
20-29 years	3,783	676	874	1,931	302
30-39 years	3,594	578	623	2,165	228
40-49 years	2,794	372	416	1,796	210
50-59 years	2,058	219	279	1,386	174
60-69 years	2,608	306	497	1,540	265
70-79 years	2,156	197	452	1,268	239
80 + years	1,832	151	447	918	316
Total	33,994	6,755	6,627	17,839	2,773
Male					
Under 1 year	1,067	241	163	589	74
1-2 years	1,347	457	239	556	95
3-5 years	1,675	523	342	708	102
6-11 years	1,768	484	352	812	120
12-19 years	1,622	373	374	725	150
20-29 years	1,801	225	437	971	168
30-39 years	1,620	190	276	1,047	107
40-49 years	1,325	139	211	878	97
50-59 years	953	82	131	667	73
60-69 years	1,298	130	236	813	119
70-79 years	993	81	184	632	96
80 + years	826	57	169	483	117
Total	16,295	2,982	3,114	8,881	1,318
Female					
Under 1 year	1,040	261	177	542	60
1-2 years	1,342	394	271	578	99
3-5 years	1,790	560	378	754	98
6-11 years	1,699	508	356	728	107
12-19 years	1,819	455	387	843	134
20-29 years	1,982	451	437	960	134
30-39 years	1,974	388	347	1,118	121
40-49 years	1,469	233	205	918	113
50-59 years	1,105	137	148	719	101
60-69 years	1,310	176	261	727	146
70-79 years	1,163	116	268	636	143
80 + years	1,006	94	278	435	199
Total	17,699	3,773	3,513	8,958	1,455

Source: NHANES-III, 1988-94.

Appendix B

Reference Standards

Some of the variables included in this report required variable construction based on outside reference standards. This appendix describes the variables that were constructed, the standards that were used, and the manner in which the standards were applied. To the extent possible, standards used are those defined in the *Healthy People 2010* objectives (U.S. DHHS, 2000a).

The appendix covers all four volumes of the report; some variables are used only in selected volumes. With the exception of Healthy Eating Index (HEI) variables, which were constructed by staff at the National Center for Health Statistics (NCHS), all variable construction was carried out by the authors.

Body Weight and Height

NHANES-III examinations included measurement of body weight and stature (or recumbent length).[1] These data were used to determine Body Mass Index (BMI)[2] for both adults and children and to assess children's anthropometric status relative to reference growth charts.

Table B-1 shows the reference standards used in these analyses. As shown, BMI is interpreted differently for children, depending on age, because normal body fatness changes as children age. For children, overweight and underweight status is determined by comparing BMI to gender- and age-specific growth charts developed by the Centers for Disease Control and Prevention (CDC).[3] In addition, stature-for-age growth charts are used to assess children's linear growth. Copies of the CDC growth charts used in these analyses are provided at the end of the appendix.

Bone Density Measures

NHANES-III measured bone density for all men and non-pregnant women age 20 and over. Bone density of the proximal femur was measured during the MEC exam using dual energy x-ray absorptiometry (DXA).

Volumes I (FSP participants and nonparticipants) and IV (the elderly) present the prevalence of normal, reduced, and severely reduced bone mineral density. Standards used to define these conditions are those specified by NCHS (NCHS, 1999):

- Reduced bone mass, or osteopenia, is defined as bone mineral density 1–2.5 standard deviations below the mean of non-Hispanic white women 20–29 years of age as measured in NHANES-III.

- Severely reduced bone mass, or osteoporosis, is defined as bone mineral density more than 2.5 standard deviations below the mean of non-Hispanic white women 20–29 years of age as measured in NHANES-III.

The latter standard is used in the *Healthy People 2010* objectives.

Coronary Heart Disease Risk

The National Cholesterol Education Program (NCEP), sponsored by the National Institutes of Health (NIH), provides a methodology for estimating individuals' 10-year risk for coronary heart disease (NIH, 2001). The 10-year risk

[1] Recumbent length was measured for infants and children up to age 3; stature was measured for persons age 2 and over. Both length and height were measured for children age 24 to 36 months.

[2] BMI is equal to [weight in kilograms] / [height in meters]^2.

[3] Reference charts for assessing children's anthropometric status were originally developed by NCHS in 1977. Revised charts were released in May 2000, based on pooled data from five national U.S. health examination surveys including NHANES-III (Kuczmarski et al., 2002).

Table B-1¾ Reference Standards Used to Assess Body Mass Index and Linear Growth

Measure	Standard	Source
Adults		
Underweight	BMI < 18.5	*Healthy People 2010* (U.S. DHHS, 2000a)[1]
Healthy weight	BMI ≥ 18.5 and < 25	*Healthy People 2010* (U.S. DHHS, 2000a)
Overweight	BMI ≥ 25 and < 30	National Institutes of Health (NIH) and World Health Organization (WHO) guidelines (NIH, 1998 and WHO, 1998)
Obese	BMI ≥ 30	*Healthy People 2010* (U.S. DHHS, 2000a)
Children age 2 and over		
Underweight	< 5th percentile on BMI-for-age chart	CDC guidelines on using BMI-for-age growth charts (CDC, 2003)
At-risk of overweight	≥ 85th and < 95th percentile on BMI-for-age chart	CDC guidelines on using BMI-for-age growth charts (CDC, 2003)
Overweight	≥ 95th percentile on BMI-for-age chart	*Healthy People 2010* (U.S. DHHS, 2000a)
Growth retarded	< 5th percentile on stature-for-age chart	*Healthy People 2010* (U.S. DHHS, 2000a)
Children age 1-4-years-old (WIC volume)		
Underweight	< 5th percentile on weight-for-height chart	CDC guidelines on using weight-for-height growth charts (CDC, 2003)
At-risk of overweight	≥ 85th and < 95th percentile on weight-for-height chart	CDC guidelines on using weight-for-height growth charts (CDC, 2003)
Overweight	≥ 95th percentile on weight-for-height chart	CDC guidelines on using weight-for-height growth charts (CDC, 2003)

[1]Adapted from Health People 2010 goal, which specifies BMI ≥ 18.5 as a healthy weight.

estimate is based on six factors: gender, age, total cholesterol, smoking status, HDL cholesterol, and systolic blood pressure. In Volumes I (FSP participants and nonparticipants) and IV (the elderly), the NCEP methodology was used to estimate the 10-year- risk of coronary heart disease among adults.

Nutrient Intake Standards

In recent years, the Institute of Medicine (IOM) has issued a comprehensive set of *Dietary Reference Intakes* (DRIs), reference values for use in planning and assessing nutrient intake. DRIs replace the *Recommended Dietary Allowances* (RDAs), first developed by the Food and Nutrition Board in 1941 (National Research Council (NRC), 1989a). The DRIs were released in a series of nutrient-specific reports; the first report was released in 1999 and the most recent in late 2004 (IOM, 1999, 2000a, 2000b, 2002a, 2002b, 2004).[4] The DRIs specify up to four different reference values for each nutrient for age- and gender-specific subgroups of the population. These reference values include:

- **Estimated Average Requirement (EAR).** The EAR is the daily level of intake estimated to meet the requirements of 50 percent of healthy individuals in a specific age- and gender subgroup. EAR values are

[4] With the exception of the 2004 reports, dates are final publication dates. Pre-publication copies of all reports were available two or more years prior to final publication.

used to set RDAs and may be used to assess the adequacy of intake of groups of individuals.

- **Recommended Dietary Allowance (RDA)**. The RDA is the daily level of intake sufficient to meet the nutrient requirements of nearly all (97-98 percent) healthy individuals in a specific subgroup. RDAs are based on EARs.

- **Adequate Intake (AI)**. An AI is defined when the available data are insufficient to estimate requirements and establish an EAR and an RDA. The AI is the daily level of intake that is assumed to be adequate, based on observed or experimentally determined estimates of intake.

- **Tolerable Upper Intake Level (UL)**. The UL is the maximum daily level of intake that is safe for nearly all members of a group. Intake above the UL increases risk of toxicity.

At the time the analyses presented in this series of reports were completed, DRIs had been established for four of the nutrients examined: vitamin C, iron, zinc, and calcium. For vitamin C, iron, and zinc, EARs were used to assess prevalence of adequate usual intake (the methodology used in estimating usual intake and in determining the prevalence of adequate intake is described in appendix C). It is not possible to assess the prevalence of adequate calcium intake, however, because the DRI committee established an AI for calcium rather than an EAR (IOM, 1999). Consequently, analysis of calcium intakes focuses on comparing mean intakes for each subgroup to age- and gender-specific AIs.

Because DRIs had not yet been established, intakes of food energy and the other nutrients and food components examined (total fat, saturated fat, cholesterol, sodium, and fiber) were assessed relative to then-current standards. Data on usual energy intake were compared to the 1989 Recommended Energy Allowance (REA) (NRC, 1989a). The prevalence of appropriate usual intakes of total fat, saturated fat, cholesterol, and sodium was assessed relative to the recommended maximum intakes defined in the *Dietary Guidelines for Americans* (U.S. Departments of Agriculture and Health and Human Services, 2000). (The standards for total fat, saturated fat, and sodium intake are also included in the *Healthy People 2010* objectives). Finally, the prevalence of adequate fiber intake was assessed on the basis of the "age-plus-5" standard. This standard, originally developed by Williams (1995), was adapted by the American Heart Association (AHA) (Van Horn, 1997) and was used in other research that preceded establishment of the DRIs for fiber (Gleason and Suitor, 2001). Under this standard, recommended fiber intake (in gm.) is equivalent to age in years plus five, up to a maximum of 25 gm.

Prior to the time the reports were to be published, DRIs were released for energy, total fat, sodium, and fiber. While it was not possible to re-do the analyses to incorporate these new standards, the text was expanded, to the extent possible, to assess usual nutrient intakes in light of the new standards. Specifically, discussions of total fat, sodium, and fiber intakes were updated by comparing means and distributions of usual intake to the new standards. It was not possible to update discussions of energy intake because the new energy standards (Estimated Energy Requirements or EERs) incorporate information on individuals' weight, height, and level of physical activity (IOM, 2002b).

Tables B-2 – B-4 show the nutrient standards used in the analysis as well as other relevant standards. Table B-2 lists EARs for vitamin C, iron, and zinc, and AIs for calcium, all of which were used in the main analysis. It also shows

Table B-2—Dietary Reference Intakes for Individuals

	Estimated Average Requirements			Adequate Intakes[1]	
	Vitamin C (mg/day)	Iron (mg/day)	Zinc (mg/day)	Calcium (mg/day)	Total fiber (g/day)
Children					
1-3 yrs	13	3.0	2.2	500	19
4-8 yrs	22	4.1	4.0	800	25
Males					
9-13 yrs	39	5.9	7.0	1,300	31
14-18 yrs	63	7.7	8.5	1,300	38
19-30 yrs	75	6.0	9.4	1,000	38
31-50 yrs	75	6.0	9.4	1,000	38
51-70 yrs	75	6.0	9.4	1,200	30
>70 yrs	75	6.0	9.4	1,200	30
Females					
9-13 yrs	39	5.7	7.0	1,300	26
14-18 yrs	56	7.9	7.5	1,300	36
19-30 yrs	60	8.1	6.8	1,000	25
31-50 yrs	60	8.1	6.8	1,000	25
51-70 yrs	60	5.0	6.8	1,200	21
>70 yrs	60	5.0	6.8	1,200	28
Pregnant Women					
14-18 yrs	66	23.0	10.5	1,300	22
19-30 yrs	70	22.0	9.5	1,000	28
31-50 yrs	70	22.0	9.5	1,000	28
Lactating Women					
14-18 yrs	96	7.0	11.6	1,300	29
19-30 yrs	100	6.5	10.4	1,000	29

[1] Estimated Average Requirements have not been set for calcium, sodium, or fiber.
Source: Dietary Reference Intakes. Institute of Medicine, Food and Nutrition Board (1999, 2000b, 2002a, 2002b, 2004).

Table B-3—1989 Recommended Dietary Allowances

	Energy allowance (REA) (kcal)	Vitamin C (mg)	Iron (mg)	Zinc (mg)	Calcium (mg)
Children					
1-3 yrs	1,300	40	10	10	800
4-6 yrs	1,800	45	10	10	800
7-10 yrs	2,000	45	10	10	800
Males					
11-14 yrs	2,500	50	12	15	1,200
15-18 yrs	3,000	60	12	15	1,200
19-24 yrs	2,900	60	10	15	1,200
25-50 yrs	2,900	60	10	15	800
51+ yrs	2,300	60	10	15	800
Females					
11-14 yrs	2,200	50	15	12	1,200
15-18 yrs	2,200	60	15	12	1,200
19-24 yrs	2,200	60	15	12	1,200
25-50 yrs	2,200	60	15	12	800
51+ yrs	1,900	60	10	12	800
Pregnant					
1st trimester ..	+0	70	30	15	1,200
2nd trimester	+300	70	30	15	1,200
3rd trimester	+300	70	30	15	1,200
Lactating					
1st 6 months	+500	95	15	19	1,200
2nd 6 months	+500	90	15	16	1,200

Source: Recommended Dietary Allowances, 10th edition. National Research Council (1989b).

Table B-4¾ Standards Used to Assess Usual Intake of Fat, Saturated Fat, Cholesterol, and Sodium

Nutrient/Food Component	*Dietary Guidelines* Standard[1]	DRI Standard	
Total fat	≤ 30% of total energy[2]	AMDRs	
		1-3 years	30-40% of total energy
		4-18 years	25-35% of total energy
		19+ years	20-35% of total energy
Saturated fat	< 10% of total energy[2]	N/A	
Cholesterol	≤ 300 mg.	N/A	
Sodium	≤ 2,400 mg.[2]	ULs	
		1-3 years	1,500 mg. (1.5 g.)
		4-8 years	1,900 mg. (1.9 g.)
		9-13 years	2,200 mg. (2.2 g.)
		14+ years	2,300 mg. (2.3 g.)

[1]Dietary Guidelines standards apply to all individuals 2 years of age and older.

[2]Also included as objective in *Healthy People 2010* (U. S. DHHS, 2000a).

newly established AIs for fiber.[5] Table B-3 shows the 1989 RDAs for vitamin C, iron, zinc, and calcium (the precursors to the DRIs), as well as the 1989 REA. Table B-4 shows the *Dietary Guidelines for Americans* recommendations for total fat, saturated fat, cholesterol, and sodium, as well as the newly-defined Acceptable Macronutrient Distribution Range (AMDR) for total fat and ULs for sodium.

Healthy Eating Index

The Healthy Eating Index (HEI), developed by USDA's Center for Nutrition Policy and Promotion (CNPP), is a summary measure of the overall quality of people's diets (Basiotis, et al., 2002). The HEI is based on 10 component scores, all of which are weighted equally in the total score. The 10 component scores measure different aspects of a healthy diet based on accepted public health recommendations. Five of the component scores are food-based and evaluate food consumption in comparison with recommendations of the USDA Food Guide Pyramid (grains, vegetables, fruits, dairy, and meat) (USDA, CNPP, 1996). A sixth component is also food-based and measures the level of dietary variety. The remaining four component scores are nutrient-based and assess compliance with the *Dietary Guidelines for Americans* recommendations for intake of fat, saturated fat, cholesterol, and sodium.[6]

Table B-5 shows the criteria used for scoring the five food-group-based components. Criteria vary by age, depending on total energy intake. Because the Food Guide Pyramid presents serving recommendations for only three levels of energy intake (1,600, 2,200, and 2,800 kilocalories) (USDA, CNPP, 1996), interpolation techniques were used to estimate the recommended number of servings for gender and age

[5]It is important to note that the fiber AIs have been defined for *total* fiber and that the data presented in this report reflect *dietary* fiber. Total fiber includes dietary fiber as well as fructo-oligosaccharides, compounds which are destroyed in the current analytical methods used to quantitate fiber in foods (IOM, 2002b). Although fructo-oligosaccharides are assumed to make up a relatively small percentage of total fiber, authors of the DRI report estimated that, on average, American adults were consuming approximately 5.1 gm. more fiber per day than estimated in the most recent Continuing Survey of Food Intakes of Individuals (CSFII), because CSFII data, like the data used in this analysis, include only *dietary* fiber (IOM, 2002b).

[6]When the HEI was first developed, the standards for cholesterol and sodium were based on recommendations made in the NRC's *Diet and Health* report (NRC, 1989b) because the version of the *Dietary Guidelines* in effect at the time did not include quantitative standards for these nutrients (USDA and U. S. DHHS, 1995). Since that time, the NRC standards for sodium and cholesterol have been incorporated into both the Nutrition Facts section of food labels and the most recent version of the *Dietary Guidelines* (USDA and U.S. DHHS, 2000).

Table B-5¾ Scoring criteria for food-based components of the Healthy Eating Index (HEI)

	Criteria for maximum score of 10 (number of servings per day)				
Age	**Grains**	**Vegetables**	**Fruits**	**Milk**	**Meat**
2-3 years	6.0	3.0	2.0	2.0	2.0
4-6 years	7.0	3.3	2.3	2.0	2.1
7-10 years	7.8	3.7	2.7	2.0	2.3
Males					
11-14 years	9.9	4.5	3.5	3.0	2.6
15-18 years	11.0	5.0	4.0	3.0	2.8
19-24 years	11.0	5.0	4.0	3.0	2.8
25-50 years	11.0	5.0	4.0	2.0	2.8
51+ years	9.1	4.2	3.2	2.0	2.5
Females					
11-24 years	9.0	4.0	3.0	3.0	2.4
25-50 years	9.0	4.0	3.0	2.0	2.4
51+ years	7.4	3.5	2.5	2.0	2.2

Notes: The minimum score of 0 was assigned only when zero servings were consumed.
For the variety component, the maximum score of 10 was assigned if 8 or more different items were consumed; the minimum score of 0 was assigned if 3 or fewer different items were consumed.
Scores were assigned proportionately for consumption between the minimum and maximum criteria.
Source: NHANES-III documentation for the HEI file. NCHS (2000).

groups with other recommended energy allowances.

Two exceptions were made to the straight interpolation. The first involved 2-3-year-old children. The 1989 REA for 2-3 year-olds is less than the lowest level of energy intake (1,600 kilocalories) referenced in the Food Guide Pyramid.[7] Extrapolation of the Food Guide Pyramid's recommended number of servings to a lower calorie level would result in smaller numbers of servings than the minimums defined in the Pyramid. Rather than use these minimal numbers of servings, NCHS staff set the numbers of servings to be equivalent with defined minimums, but reduced reference portion sizes for food groups other than milk to two-thirds of the adult reference (NCHS, 2000). This is consistent with Pyramid guidance (i.e., that individuals with lower energy needs eat smaller servings) as well as with the approach used by other researchers (Basiotis et al., 2002).

The second exception was made for males between 15 and 50 years of age. The 1989 REA for this group is slightly higher than the highest level of energy intake (2,800 kilocalories) references in the Food Guide Pyramid. Simple extrapolation would have resulted in greater numbers of servings than the maximums defined in the Pyramid. Because the Food Guide Pyramid provides no guidance on how to accommodate greater energy needs, NCHS researchers truncated the number of servings at the maximums defined in the Pyramid. This is consistent with the approach used by other researchers (Basiotis et al., 2002). Moreover, preliminary analyses completed by NCHS indicated that truncation did not have a significant impact on HEI scores (NCHS, 2000).

The methodology used to determine serving definitions for counting servings in each of the five major food groups is the same as that used in the initial research that calculated the HEI using data from the 1989-90 Continuing Survey of Food Intake of Individuals (CSFII) (USDA, CNPP, 1995). It differs, however, from the methodology used in subsequent research to

[7] HEI computations were completed be NCHS staff prior to the release of the new REEs (see discussion on *Dietary Reference Intakes*), so the reference standard used for energy intake was the 1989 REAs.

calculate the HEI using the 1994-96 CSFII data (USDA, ARS, 1998) as well as recent research that calculated the HEI using data from NHANES 1999-2000 (Basiotis et al., 2002).

In particular, milk serving definitions in the NHANES-III data used in this report were based on grams of nonfat milk solids contained in a food divided by the amount of grams of nonfat milk solids contained in 1 cup of milk (NCHS, 2000). The alternative methodology used in the two analyses noted above based milk serving definitions on calcium equivalents. This approach defines a milk serving as one that provides the same amount of calcium as 1 cup of skim milk (302 mg). In choosing to use the "nonfat milk solids" approach rather than the "calcium equivalents" approach, NCHS researchers cited concerns that the latter may lead to low milk group component scores because of the omission of foods such as butter and cream cheese nonfat milk solids but small to negligible amounts of calcium (NCHS, 2000).

For the four other food groups, serving definitions used by NCHS researchers are similar to those used by USDA researchers and were designed to be as consistent as possible with the serving definitions used in the Food Guide Pyramid (USDA, ARS, 2003). Servings of breads and grains are defined on the basis of "flour equivalents," using the flour content of a typical slice of bread (16 gm) as the base. Servings of most vegetables are counted as ½ cup cooked or 1 cup raw. Fruits are treated similarly.

Servings of meat are based on "lean meat equivalents." The base serving is 2.5 oz. of lean meat, fish, or poultry, with a specified minimum amount of fat.[8] Numbers of servings for non-lean-meats are assigned based on fat content. As an example, 2 oz. of cooked sausage has the equivalent of 1.5 oz. of cooked lean meat, or .61 servings of meat. (For a more detailed explanation of how meat servings are determined, see USDA, ARS, 2003).

Several non-meat foods are also included in the meat group. Serving equivalents for these items are defined as ½ cup cooked dry beans or peas, 1 egg, 2 Tbsp. peanut butter, 1/3 cup nuts, ¼ cup seeds, and ½ cup of tofu (USDA, ARS, 2003). The Food Guide Pyramid considers dried beans and peas (legumes) to be considered contributors to the meat group, but they may also be counted toward vegetable intake. In computing the HEI, NCHS investigators applied any legume consumption that was not "needed" in the meat group toward the vegetable group (NCHS, 2000).

Variety Score

Both The Food Guide Pyramid and the *Dietary Guidelines for Americans* recommend consuming a variety of foods, but neither provides guidance on how to measure dietary variety. Following the protocols established in the initial HEI research (USDA, CNPP, 1995), variety scores were assigned based on the total number of different types of food a person consumed in a day. Similar foods were grouped together and the totals were computed for each individual. Fats, sweets, seasonings, and similar foods were not included in the calculations (for a complete list of excluded foods see NCHS, 2000), and neither were food components that contributed less than one-half of a serving.

A maximum score of 10 points was assigned for variety scores of 8 or more (indicating that the person consumed at least half a serving of 8 or more different types of food in the preceding 24-hour period). A minimum score of 0 was assigned for variety scores of 3 or less. Intermediate scores were assigned proportionately.

[8]Two different definitions have been used to define lean meats – no more than 2.65 gm. fat per oz. and no more than 2.4 gm. fat per oz. (USDA, ARS, 2003). The NCHS documentation does not specify which of these definitions was used in computing lean meat equivalents in the NHANES-III database (NCHS, 2000).

Table B-6¾ Scoring criteria for nutrient-based components of the Healthy Eating Index (HEI)

Component	Standard for maximum score of 10	Standard for minimum score of 0
Total fat	≤ 30% of total calories	≥ 45% of total calories
Saturated fat	< 10 percent of total calories	≥ 15 percent of total calories
Cholesterol	≤ 300 mg per day	≥ 450 mg per day
Sodium	≤ 2,400 mg per day	≥ 2,400 mg per day

Note: Standards for nutrient-based components apply to all age groups.

Source: NHANES-III documentation for the HEI file. NCHS (2000).

Nutrient-based Scores

The four nutrient-based component scores of the HEI assess compliance with the *Dietary Guidelines for Americans* recommendations for intake of total fat, saturated fat, cholesterol, and sodium (USDA and U.S. DHHS, 2000). The manner in which these recommendations were used to determine HEI component scores is summarized in table B-6.

Rating Total Scores

As noted in the preceding discussion, the maximum score for the full HEI (all ten components combined) is 100 and the minimum score is zero. Using standards defined by USDA's CNPP, individuals with total HEI scores of more than 80 were considered to have good diets. Those with scores between 51 and 80 were considered to have diets that need improvement. And those who scored below 51 on the HEI were considered to have poor diets (Basitotis et al., 2002).

Serum and Blood Measurements

Several serum and blood measurements are examined in this series of reports. Most reflect serum levels of nutrients or assess iron or lipid status. In addition, levels of blood lead were examined to assess the prevalence of lead poisoning. Serum cotinine levels were also analyzed to examine exposure to second-hand smoke. Cotinine, a breakdown product of nicotine, is used as a biological marker for tobacco use and exposure to environmental tobacco smoke.

Table B-7 lists the serum and blood measures examined, the reference standards used in assessing them, and the source of the standard. The prevalence of iron deficiency was assessed using the *Healthy People 2010* definition: abnormal results on two of three specific measures of iron status (serum ferritin, free erythrocyte protoporphorin, and transferring saturation) (U.S. DHHS, 2000a). Iron deficiency anemia was defined as the presence of iron deficiency plus an abnormally low hemoglobin. Cutoffs used to define abnormal values are summarized in table B-7.

Table B-7 ¾ Reference values for serum and blood measures

Measure	Age group	Abnormal range		Source
		Male	Female	
Hemoglobin (g/dL)[1]	1-2 years	< 11.0	< 11.0	CDC Recommendations to Prevent and Control Iron Deficiency in the U.S. (CDC, 1998)
	2-5 years	< 11.1	< 11.1	
	5-8 years	< 11.5	< 11.5	
	8-12 years	< 11.9	< 11.9	
	12-15 years	< 12.5	< 11.8	
	15-18 years	< 13.3	< 12.0	
	≥ 18 years	< 13.5	< 12.0	
Hematocrit (%)[1]	1-2 years	< 32.9	< 32.9	CDC Recommendations to Prevent and Control Iron Deficiency in the U.S. (CDC, 1998)
	2-5 years	< 33.0	< 33.0	
	5-8 years	< 34.5	< 34.5	
	8-12 years	< 35.4	< 35.4	
	12-15 years	< 37.3	< 35.7	
	15-18 years	< 39.7	< 35.9	
	≥ 18 years	< 39.9	< 35.7	
Serum ferritin (mcg/mL)	1-4 years	< 10	< 10	*Healthy People 2010* (U.S. DHHS, 2000a) and CDC Recommendations to Prevent and Control Iron Deficiency in the U.S. (CDC, 1998)
	5-11 years	< 15	< 15	
	12-49 years	< 15	< 12	
	≥ 50 years	< 15	< 15	
Free erythrocyte protoporphorin (mcg/dL)	1-2 year	> 80	> 80	*Healthy People 2010* (U.S. DHHS, 2000a)
	> 2 years	> 70	> 70	
Transferrin saturation (%)	1-2 years	< 10	< 10	*Healthy People 2010* (U.S. DHHS, 2000a) and CDC Recommendations to Prevent and Control Iron Deficiency in the U.S. (CDC, 1998)
	3-4 years	< 12	< 12	
	12-15 years	< 16	< 14	
	≥ 16 years	< 16	< 15	
Total cholesterol (mg/dL)	2-19 years	High: ≥ 200 Borderline: 170-199		National Institutes of Health, National Cholesterol Education Program (2001 (adults) and 1991 (children))
	20 years and over	High: ≥ 240 Borderline: 200-239		
LDL cholesterol (mg/dL)	2-19 years	High: ≥ 130 Borderline: 110-129		National Institutes of Health, National Cholesterol Education Program (2001 (adults) and 1991 (children))
	20 years and over	High: ≥ 160 Borderline: 130-159		
HDL cholesterol (mg/dL)	2-19 years	< 35		National Institutes of Health, National Cholesterol Education Program, 2001 (adults) and American Heart Association, 2002 (children)
	20 years and over	< 40		
Triglycerides (mg/dL)	12-19 years	≥ 150		National Institutes of Health, National Cholesterol Education Program, 2001 (adults) and American Heart Association, 2002 (children)
	20 years and over	High: ≥ 200 Borderline: 150-199		
RBC folate (ng/mL)[2]	All ages	< 95		*Dietary Reference Intakes* (IOM, 2000a)
Serum vitamin B_{12} (pg/mL)	All ages	< 200		*Dietary Reference Intakes* (IOM, 2000a)
Serum albumin (g/dL)	60 years and over	< 3.8 (liberal definition) < 3.5 (conservative)		Institute of Medicine, Committee on Nutrition Services for Medicare Beneficiaries (2000)

¾ **Continued**

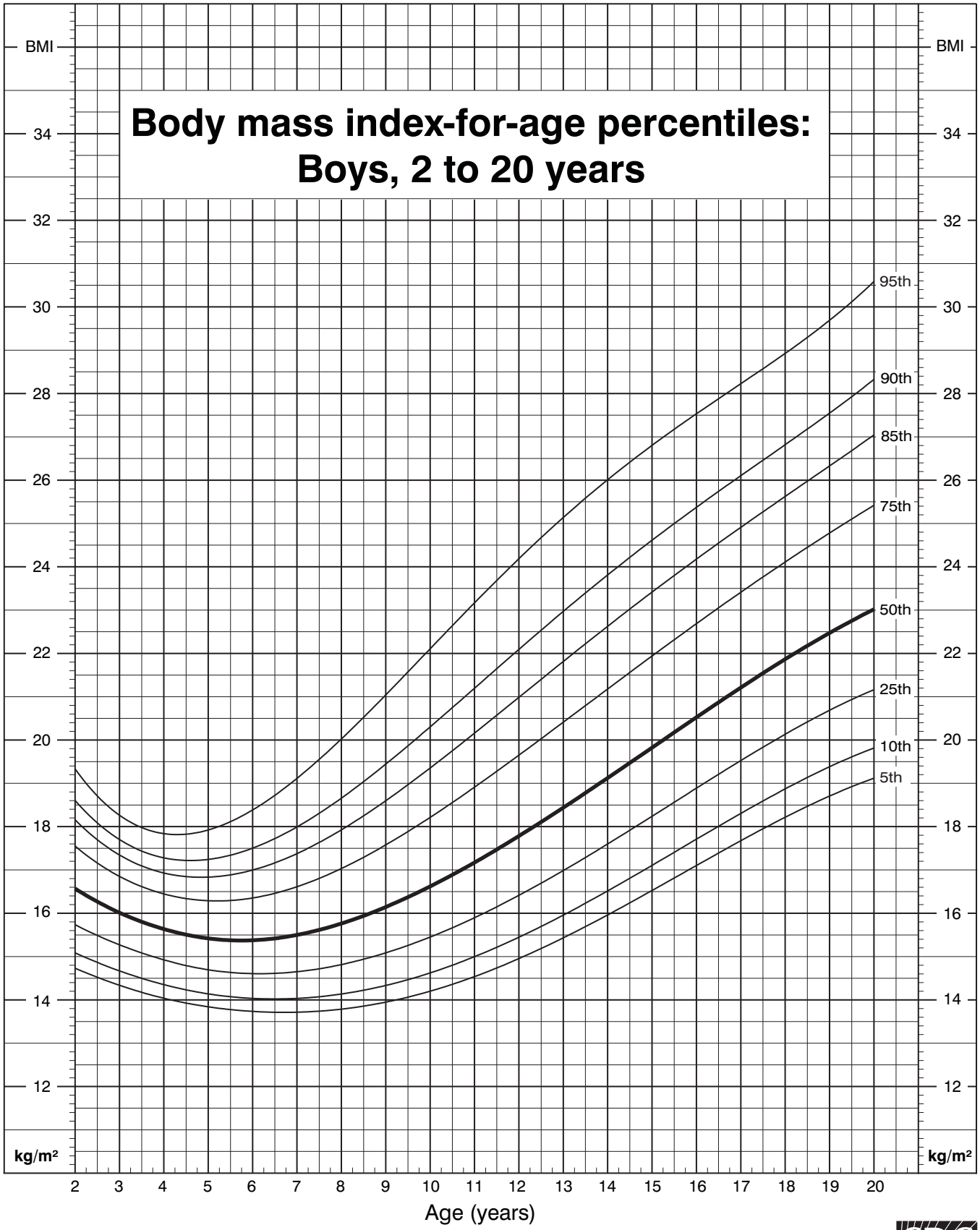
Table B-7 ¾ Reference values for serum and blood measures (continued)

Measure	Age group	Abnormal range		Source
		Male	Female	
Lead exposure				CDC Report on Blood Levels in the U.S.: 1991-1994. (CDC, 1997)
Lead (mcg/dL)	All ages	≥ 10.0		
Exposure to second-hand smoke				*Healthy People 2010* (U.S. DHHS, 2000a)
Cotinine (ng/dL)	All ages	> 0.10		

[1]Hemoglobin and hematocrit cutoffs were adjusted for smokers, per CDC recommendations (1998). Adjustment for high altitudes is also suggested, but data on the altitude at which respondents live is not available in NHANES-III. Hemoglobin cutoffs for smokers were adjusted based on reported daily cigarette use, as follows: +0.3 for 0.5 to less than 1 pack per day; +0.5 for 1 to less than 2 packs per day; +0.7 for 2 or more packs per day. Parallel adjustments for hematocrit were +1.0, +1.5, and +2.0.

[2]The cutoff of 95 ng/mL is specific to the radioassay kit used by NHANES-III beginning in December 1993, and is applied to all NHANES-III RBC folate measures because NCHS adjusted the data for comparability (Wright, et al., 1998). This cutoff differs from that recommended based on NHANES-II data (less than 140 ng/mL) due to use of the revised test kit.

CDC Growth Charts: United States



Published May 30, 2000.

SOURCE: Developed by the National Center for Health Statistics in collaboration with the National Center for Chronic Disease Prevention and Health Promotion (2000).

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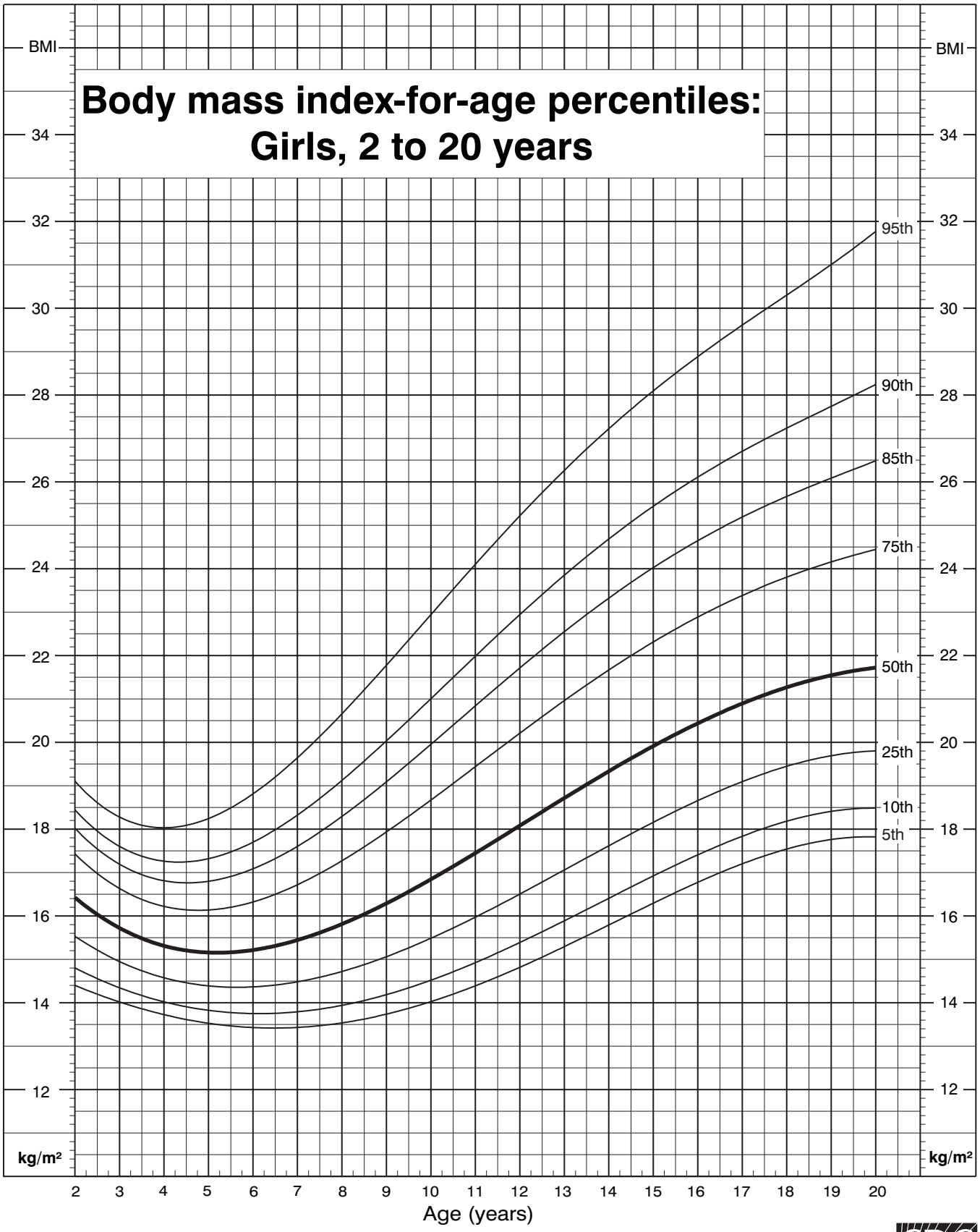
CDC Growth Charts: United States



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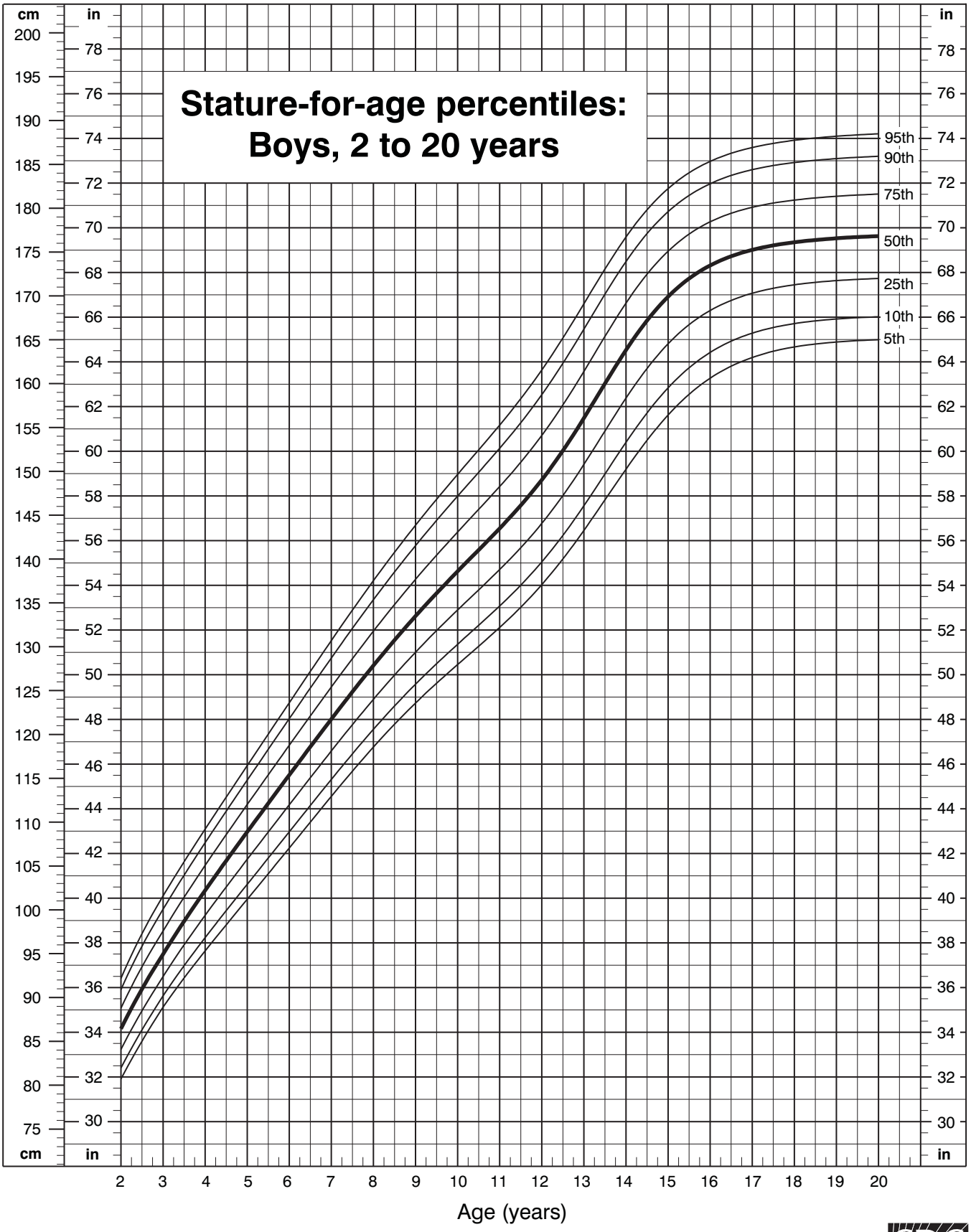

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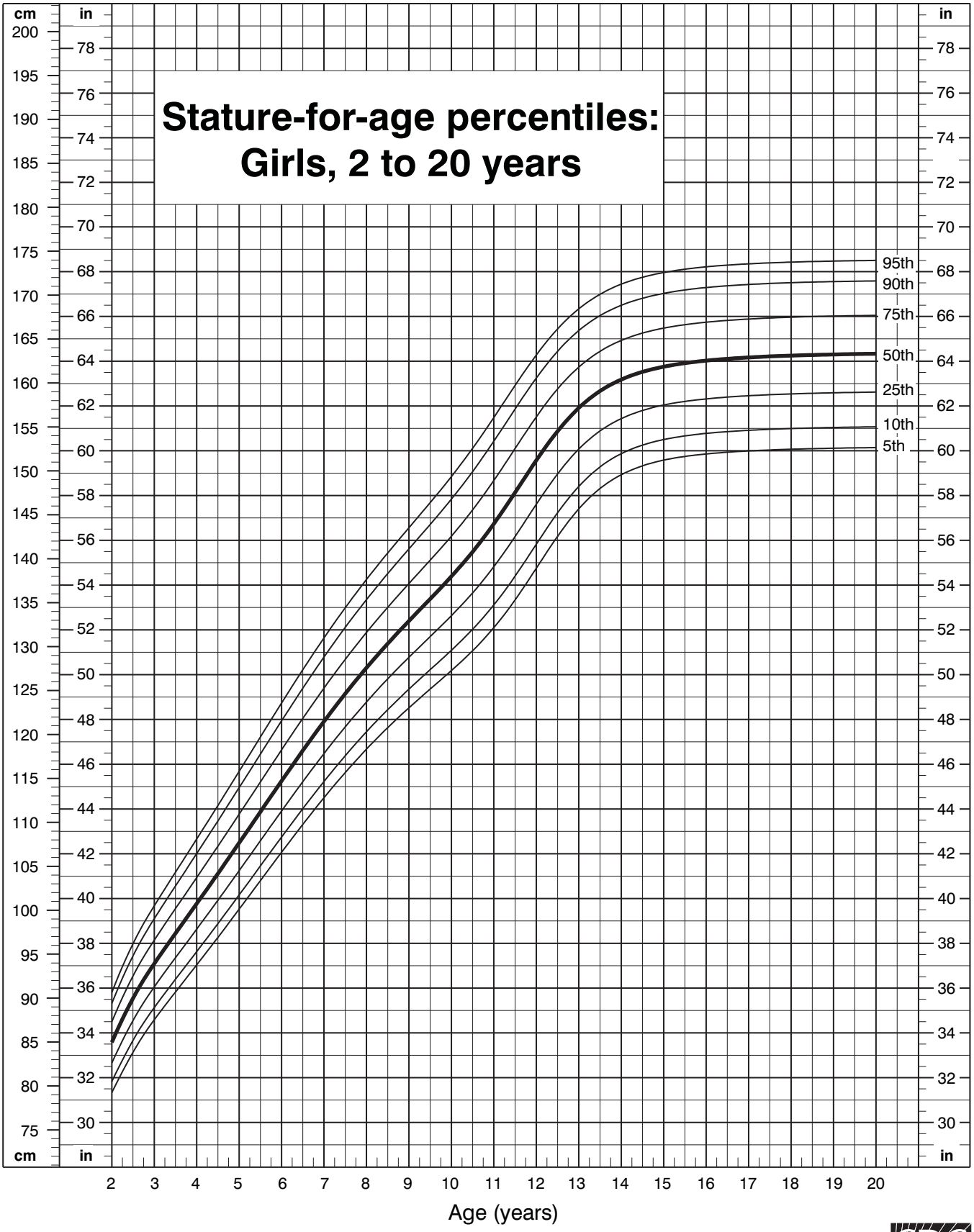

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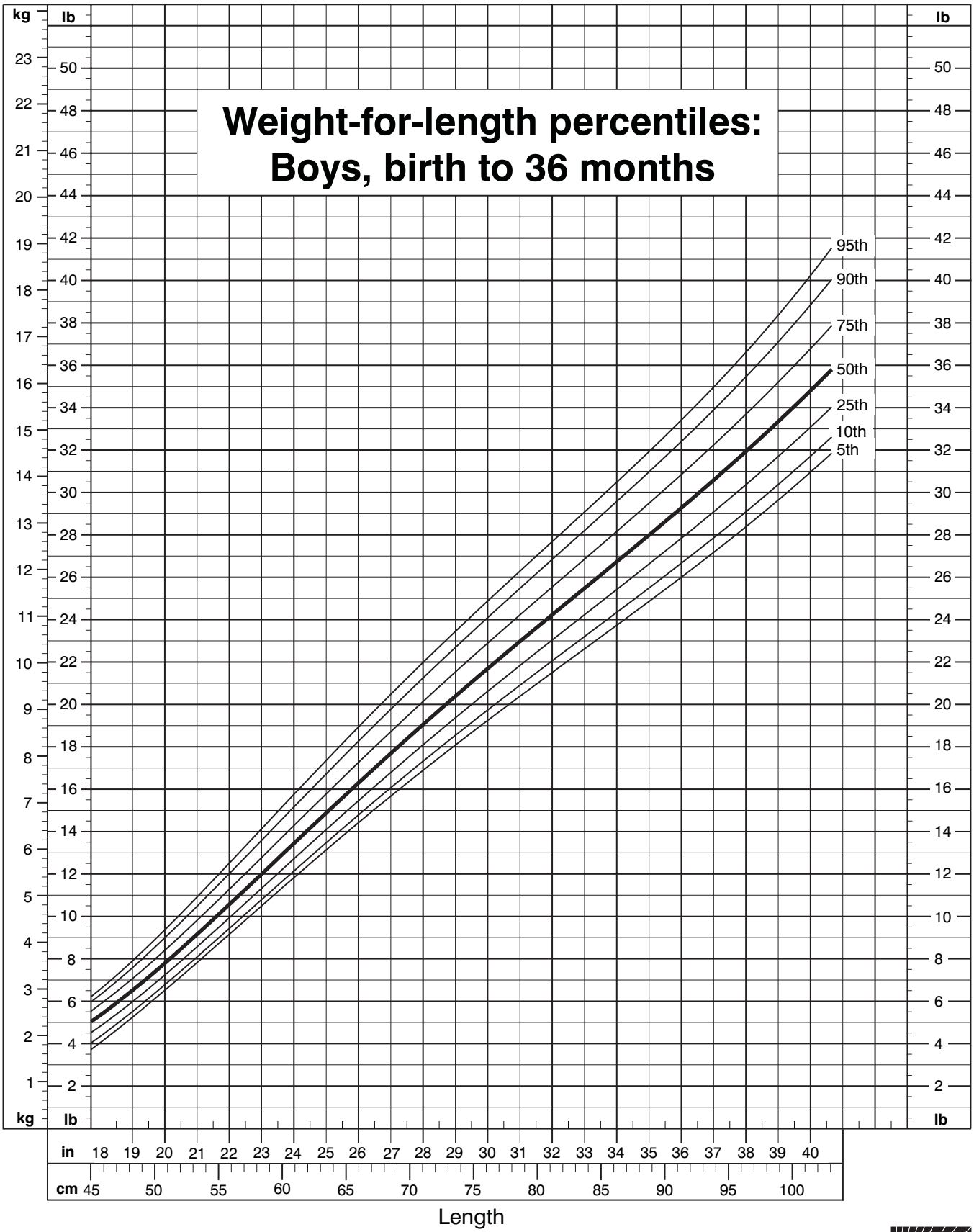

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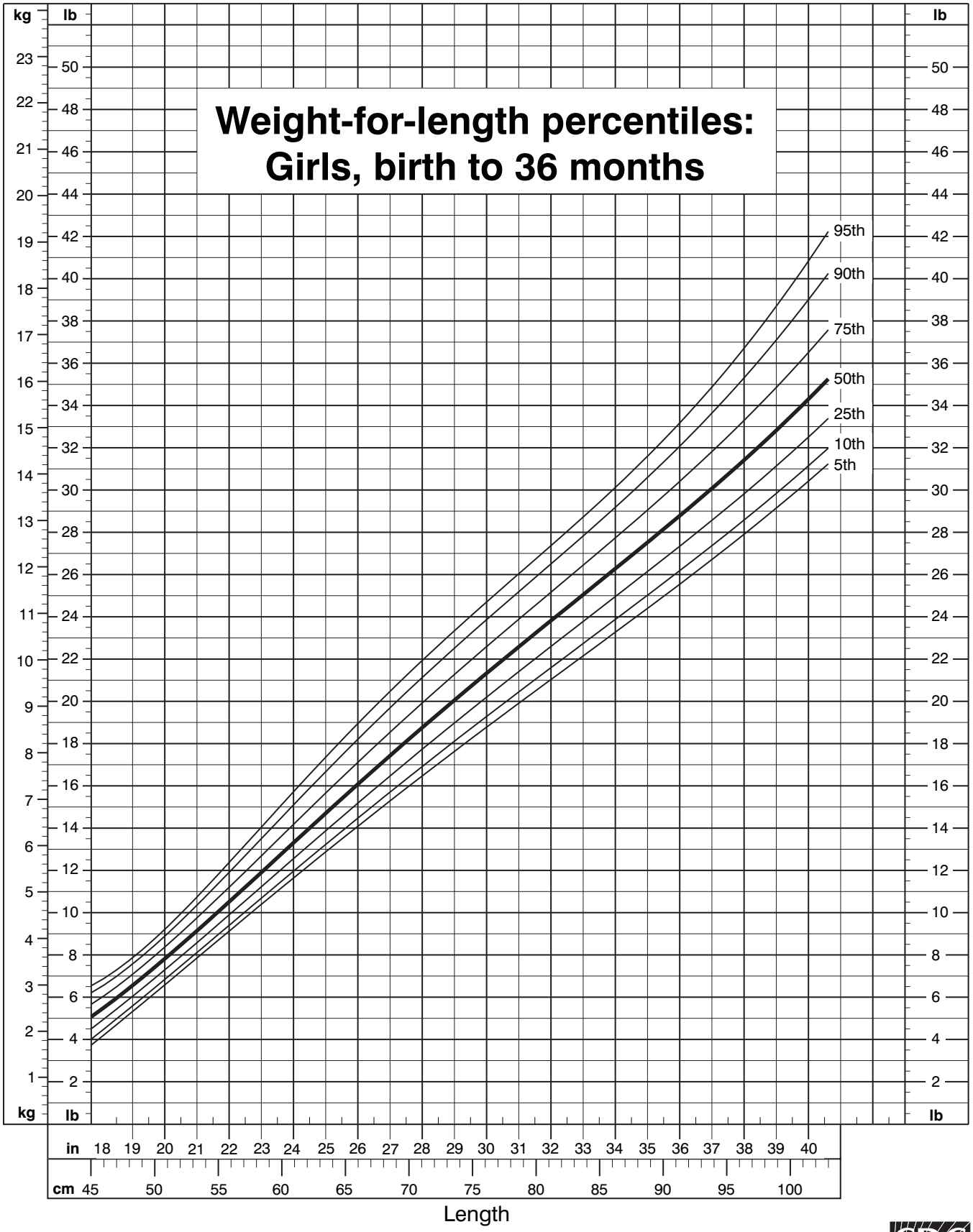

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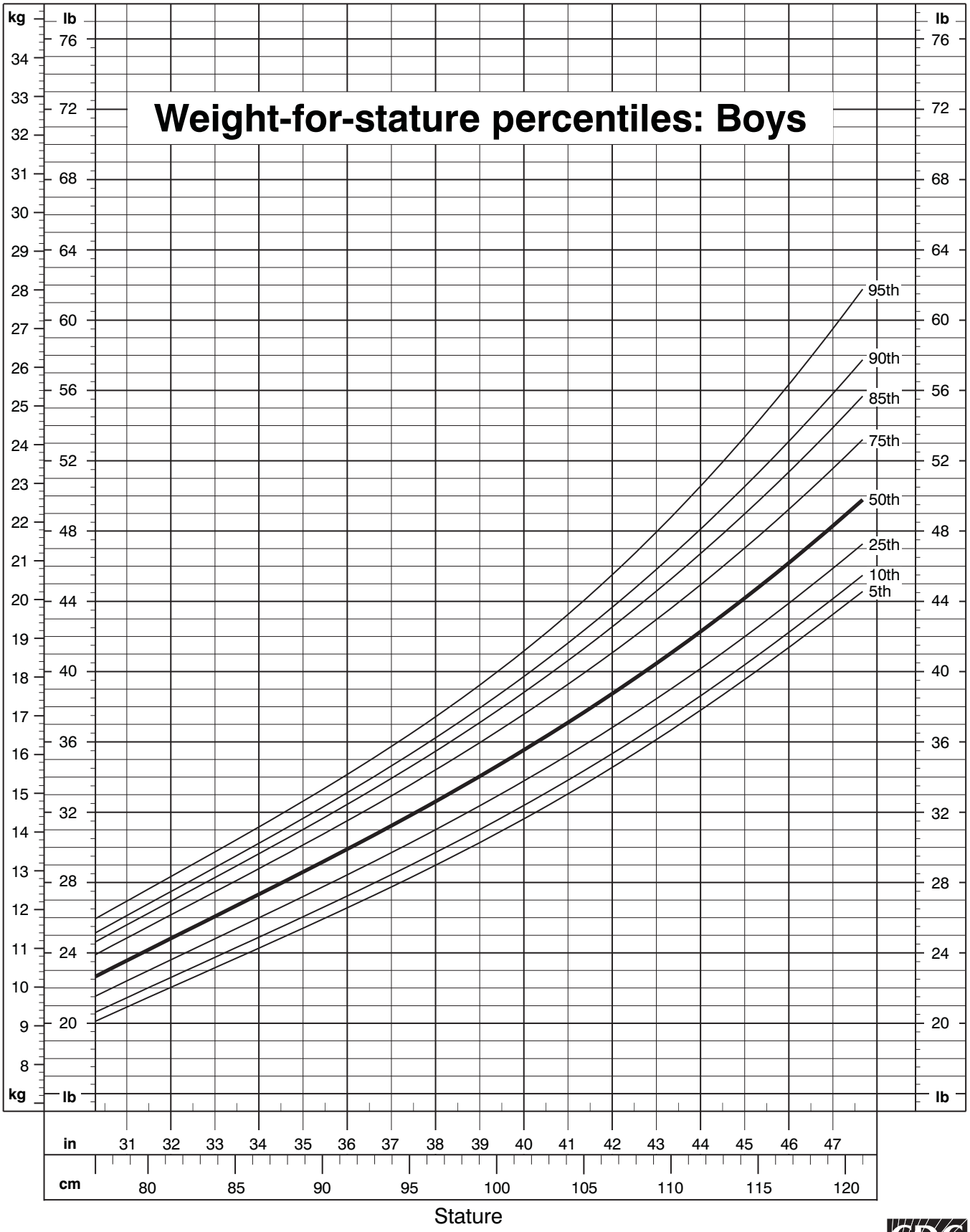

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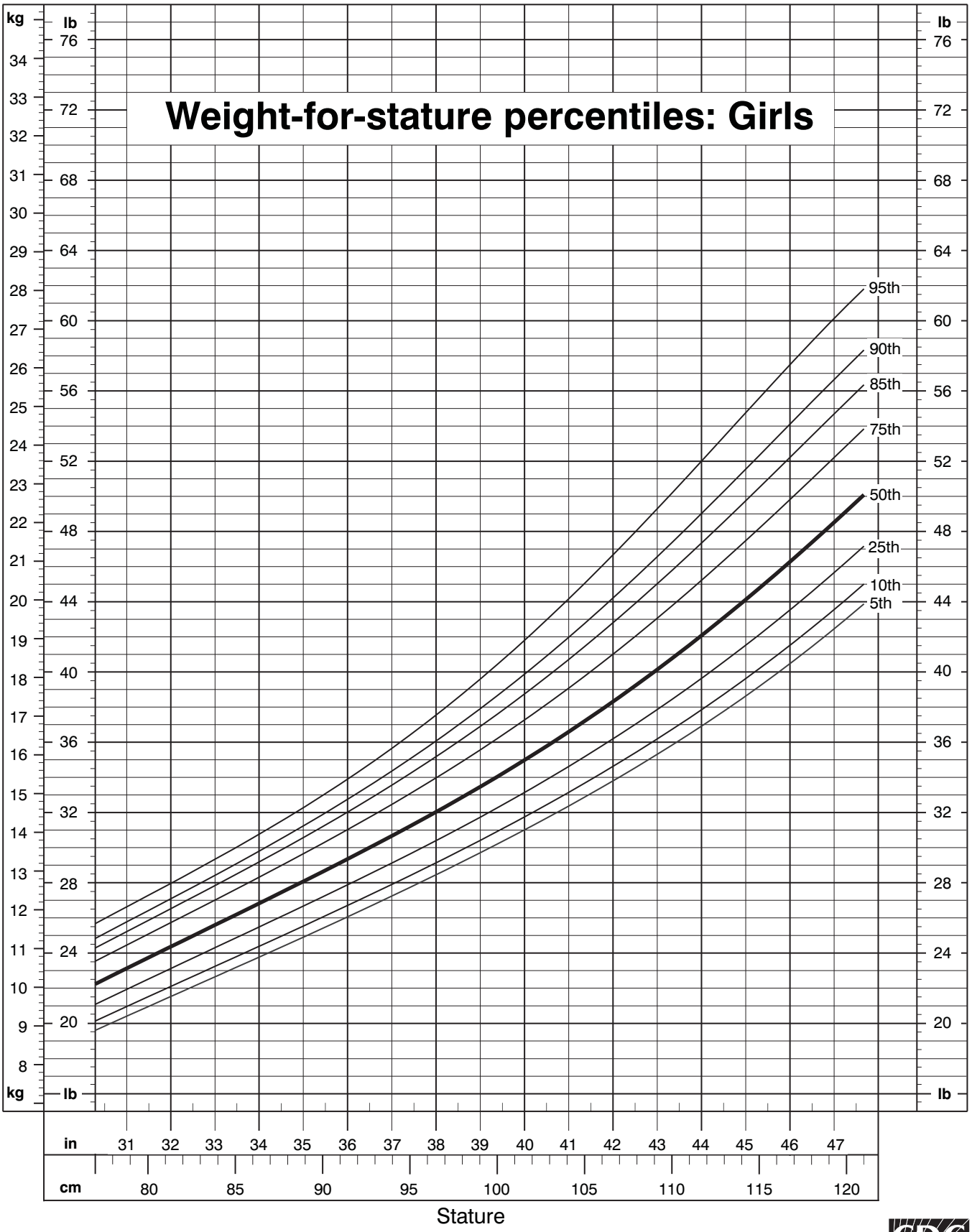

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Appendix C
Statistical and Reporting Guidelines

This report presents population means and proportions, standard errors of estimates, and percentiles of dietary intake distributions. Sample weights were used to account for sample design and nonresponse. Information about the NHANES-III survey design was used in estimating variances and testing for statistical significance.

Several software packages were used to produce the tabulations:

- ***C-SIDE: Software for Intake Distribution Estimation (Version 1.0)***—used to estimate means, percentiles, and standard errors for nutrient intake tables.

- ***SUDAAN (Version 7.5)***—used to calculate means, standard errors, and tests of statistical significance for non-nutrient tables, using the DESCRIPT procedure.

- ***SAS (Version 8.2)***—used to read the NHANES-III data files, call SUDAAN procedures, process SUDAAN output, and write SUDAAN results to ASCII files.

- ***TPL (Table Producing Language)***—this software produced all data tables in appendix D.

General Procedures

NHANES-III sample weights account for the fact that each sample person does not have an equal probability of selection into the sample. NHANES-III provides sample weights for three samples: the interviewed sample weight (WTPEQX6), the MEC-examined sample weight (WTPFEX6), and the MEC and home-examined sample weight (WTPFHX6). The sampling weight used for each table in this report was specific to the data item presented in the table, and is indicated by the source of data listed in the table footnote.

Variance is generally underestimated in a complex survey when information about the survey design is not used in variance estimation. For this report, two alternate methods were used to account for the sample design.

- Balance repeated replication (BRR)—this method was specified when using C-SIDE software to obtain estimates for nutrient tables. The BRR method used the 52 replicate weights provided in the NHANES-III data.

- Taylor series linearization—this method is used in SUDAAN procedures. The complex survey design is accounted for by specifying strata and PSU in the "nest" statement of SUDAAN procedures.

Coefficients of variation (CVs) and t-statistics were generated and examined, but are not provided in the tables. CVs were examined to determine the statistical reliability of estimates, as described below in the section on Reporting Guidelines. T-statistics were examined to determine the statistical significance of differences in means and proportions. When examining categorical data, t-statistics were used and the Bonferroni adjustment was applied to adjust for multiplicity of tests.

All tests for statistical significance are tests for differences between two independent samples defined by program participation and/or income-level. In volumes I and II, differences between

program participants and income-eligible nonparticipants are denoted by symbols on values for income-eligible nonparticipants; differences between program participants and higher-income nonparticipants are denoted by symbols on values for higher-income nonparticipants. In volumes III and IV, differences between the lowest-income group and the low-income group are denoted by symbols on values for the low-income group; differences between the lowest-income group and high-income group are denoted by symbols on values for the high-income group.

Differences in means and proportions were tested for statistical significance using α levels of 0.01, 0.05, and 0.001. For categorical data, differences involve multiple non-independent comparisons and were tested using α levels of 0.01, 0.05, and 0.001 adjusted using the Bonferroni method, by dividing α levels by the number of comparisons.

Age Standardization

Tables presented in appendix A include age-adjusted estimates for the total population (i.e., all age groups), calculated using the direct method (Klein, 2001). The age-adjusted estimates were obtained by weighting estimates for each age category by the year 2000 population distribution.

The population distribution used for age-adjustment is from *Monthly Estimates of the United States Population: April 2000*. Age-adjusted estimates were calculated by the SUDAAN software.

Nutrient Analyses

A primary goal for the analysis of dietary intake was to estimate the proportion of individuals whose intake is inadequate. Reference standards used to define adequate intake reflect expectations for usual intake. To apply these standards appropriately, it is necessary to have information about the distribution of intake in the population of interest. The variance of the distribution of observed intake is too large to produce reliable estimates of the prevalence of inadequate intake. This is because the variance of observed intake includes both within-person (day-to-day) and between-person variation. Methods have been established for adjusting observed intake distributions to estimate distributions of usual intake by removing within-person variation (NRC, 1986 and Nusser et al, 1996). These adjustments require two or more days of intake data for at least some subjects.

NHANES-III collected replicate 24-hour recalls on a convenience sample of approximately 5 percent of respondents. The nonrandom nature and small size of the replicate recall sample prohibited its use in estimating usual dietary intake. Instead, we used the Continuing Survey of Food Intake of Individuals (CSFII) 1994-96, to obtain estimates of within-person variation. CSFII is a nationally representative survey that includes two days of dietary intake data for all subjects.

CSFII data were used to estimate variance components for 96 demographic cells defined by age group (8), gender (male, female, both), and program participation or income (3 plus overall).[1] The variance components from CSFII were used to adjust observed intakes collected in the NHANES-III single-day dietary recalls. Estimation for all nutrients was done using *C-SIDE: Software for Intake Distribution Estimation* (Iowa State University, 1996). Because iron requirements for menstruating females are known to be asymmetrical, the adjustments performed by the C-SIDE software (using this "Iowa State Method") were not appropriate.

[1] Age groups correspond to the DRI age groups for volumes I, III, IV. CSFII used to estimate variance components for volume II (WIC participants and nonparticipants) were aggregated by year of age (4) and program participation or income (3 plus overall), but not by gender.

Therefore, distributions of iron intake were adjusted using the full probability approach as described in the IOM report *Dietary Reference Intakes: Applications in Dietary Assessment* (IOM, 2001). CSFII variance components are shown in table C1.

Reporting Guidelines

This report follows the recommendations in the NHANES-III Analytic Guidelines in the appendix titled "Joint Policy on Variance Estimation and Statistical Reporting Standards for NHANES-III and CSFII Reports: HNIS/NCHS Analytic Working Group Recommendations" (NCHS, 1996). The recommendations for presentation of statistical data call for estimates to be flagged if any of the following conditions are met:

1. **Inadequate sample size for normal approximation.** For means and for proportions based on commonly occurring events (where $0.25 < P < 0.75$), an estimate is flagged if it is based on a cell size of less than 30 times a "broadly calculated average design effect."

2. **Large coefficient of variation.** Estimates are flagged if the coefficient of variation (ratio of the standard error to the mean expressed as a percent) is greater than 30.

3. **Inadequate sample size for uncommon or very common events.** For proportions below 0.25 or above 0.75, the criteria for statistical reliability is that the cell size be sufficiently large that the minimum of nP and n(1-P) be greater than or equal to 8 times a broadly calculated average design effect, where n is the cell size and P is the estimated proportion. (I.e., an estimate is flagged when $n < 8 * (\text{avg design effect}) / \min(P,(1-P))$.) The coefficient of variation is not used in these cases.

For each data item, the design effect was calculated for each table cell as the ratio of the complex sampling design variance calculated by SUDAAN, to the simple random sample variance. The average design effect for a data item is the average of estimated design effects across age groups (pooled genders) within a demographic group, where demographic groups correspond to the columns of tables (groups defined by program participation and income).

Table C-1—CSFII variance components for 10 nutrients

Total energy

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.52389	352	0.53826	315	0.47163	1,224	0.54007
4-8 years	1,711	0.61130	306	0.60367	262	0.69893	1,130	0.58733
9-13 years	1,160	0.60947	152	0.56450	171	0.65552	826	0.60408
14-18 years	923	0.51767	102	0.58726	153	0.64029	652	0.46100
19-30 years	1,728	0.50903	124	0.46669	383	0.48593	1,198	0.52977
31-50 years	3,496	0.47057	258	0.47125	472	0.47240	2,723	0.47407
51-70 years	3,285	0.45816	174	0.52661	513	0.47794	2,565	0.45746
71 + years	1,392	0.43502	57	0.47828	338	0.47518	979	0.44151
Male								
1-3 years	966	0.54768	180	0.51278	154	0.51796	623	0.55534
4-8 years	859	0.60505	164	0.68015	123	0.61715	563	0.56916
9-13 years	574	0.65768	66	0.78349	83	0.57975	423	0.64210
14-18 years	474	0.57933	55	0.70453	82	0.58653	328	0.52891
19-30 years	920	0.58255	34	0.64225	212	0.50990	660	0.60721
31-50 years	1,806	0.55910	–	–	248	0.54578	1,440	0.56967
51-70 years	1,680	0.50927	67	0.58970	252	0.48542	1,344	0.51912
71 + years	722	0.45101	25	0.44649	159	0.46190	529	0.46700
Female								
1-3 years	942	0.52019	172	0.55728	161	0.42039	601	0.53494
4-8 years	852	0.64040	142	0.48329	139	0.83277	567	0.64110
9-13 years	586	0.62520	86	0.48138	88	0.85348	403	0.62220
14-18 years	449	0.68427	47	0.58822	71	0.87874	324	0.64157
19-30 years	808	0.66751	90	0.48449	171	0.69075	538	0.69342
31-50 years	1,690	0.59557	160	0.55087	224	0.57076	1,283	0.60680
51-70 years	1,605	0.57595	107	0.50283	261	0.62198	1,221	0.57884
71 + years	670	0.52747	32	0.48480	179	0.59438	450	0.53285

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Calcium

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.52929	352	0.51531	315	0.57580	1,224	0.52468
4-8 years	1,711	0.64491	306	0.68911	262	0.68980	1,130	0.61985
9-13 years	1,160	0.64724	152	0.61654	171	0.80792	826	0.63005
14-18 years	923	0.54743	102	0.55094	153	0.65108	652	0.53003
19-30 years	1,728	0.61482	124	0.51297	383	0.68864	1,198	0.60369
31-50 years	3,496	0.54508	258	0.50292	472	0.55228	2,723	0.55654
51-70 years	3,285	0.51370	174	0.50120	513	0.49433	2,565	0.52979
71 + years	1,392	0.47122	57	0.54118	338	0.45983	979	0.48274
Male								
1-3 years	966	0.53968	180	0.51024	154	0.55214	623	0.55108
4-8 years	859	0.63776	164	0.75765	123	0.63659	563	0.60247
9-13 years	574	0.67549	66	0.72023	83	0.73816	423	0.65572
14-18 years	474	0.55848	55	0.52524	82	0.61561	328	0.57781
19-30 years	920	0.64941	34	0.55810	212	0.71666	660	0.61977
31-50 years	1,806	0.58293	98	0.52786	248	0.65977	1,440	0.57898
51-70 years	1,680	0.52979	67	0.45846	252	0.51951	1,344	0.54806
71 + years	722	0.48633	25	0.59395	159	0.47225	529	0.51490
Female								
1-3 years	942	0.52645	172	0.55421	161	0.62431	601	0.49460
4-8 years	852	0.66067	142	0.59251	139	0.75838	567	0.65333
9-13 years	586	0.65549	86	0.55632	–	–	403	0.63004
14-18 years	449	0.68419	47	0.63815	71	0.84286	324	0.64459
19-30 years	808	0.67232	90	0.60427	171	0.75298	538	0.67202
31-50 years	1,690	0.58359	160	0.54708	224	0.50234	1,283	0.61563
51-70 years	1,605	0.55032	107	0.52544	261	0.49645	1,221	0.56824
71 + years	670	0.49120	32	0.51046	179	0.47928	450	0.48140

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Fiber

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.59055	352	0.65235	315	0.49565	1,224	0.60865
4-8 years	1,711	0.68211	306	0.68005	262	0.78384	1,130	0.65945
9-13 years	1,160	0.67919	152	0.71734	171	0.64219	826	0.68211
14-18 years	923	0.68249	102	0.74950	153	0.79782	652	0.63912
19-30 years	1,728	0.59700	124	0.58469	383	0.54348	1,198	0.62555
31-50 years	3,496	0.58534	258	0.53742	472	0.54659	2,723	0.58585
51-70 years	3,285	0.52120	174	0.59649	513	0.54158	2,565	0.53370
71 + years	1,392	0.47500	57	0.41996	338	0.58591	979	0.46468
Male								
1-3 years	966	0.59255	180	0.62781	154	0.48896	623	0.60796
4-8 years	859	0.70988	164	0.79936	123	0.72699	563	0.68675
9-13 years	574	0.70411	66	0.81040	83	0.67484	423	0.67178
14-18 years	474	0.72115	–	–	82	0.68602	328	0.68754
19-30 years	920	0.60946	34	0.73769	212	0.54421	660	0.63555
31-50 years	1,806	0.61456	98	0.51322	248	0.63895	1,440	0.61753
51-70 years	1,680	0.50910	67	0.59855	252	0.45214	1,344	0.53816
71 + years	722	0.48286	25	0.61010	159	0.52256	529	0.49506
Female								
1-3 years	942	0.59872	172	0.67793	161	0.49621	601	0.61102
4-8 years	852	0.66858	142	0.52900	139	0.82409	567	0.64605
9-13 years	586	0.68173	86	0.69673	88	0.65895	403	0.70998
14-18 years	449	0.75960	47	0.59119	71	0.94124	324	0.70277
19-30 years	808	0.67745	90	0.61634	171	0.67682	538	0.69053
31-50 years	1,690	0.60443	160	0.58176	224	0.52990	1,283	0.63443
51-70 years	1,605	0.58734	107	0.60218	261	0.68132	1,221	0.58635
71 + years	670	0.50713	32	0.35433	179	0.68253	450	0.45934

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Sodium

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.54763	352	0.53522	315	0.51147	1,224	0.56384
4-8 years	1,711	0.67864	306	0.68060	262	0.63738	1,130	0.68414
9-13 years	1,160	0.71673	152	0.70947	171	0.79814	826	0.68754
14-18 years	923	0.65780	102	0.81727	153	0.79810	652	0.58923
19-30 years	1,728	0.61804	124	0.48105	383	0.59408	1,198	0.65364
31-50 years	3,496	0.57282	258	0.51845	472	0.53695	2,723	0.58194
51-70 years	3,285	0.56512	174	0.62511	513	0.57087	2,565	0.56168
71 + years	1,392	0.52579	57	0.54291	338	0.50446	979	0.53316
Male								
1-3 years	966	0.58898	180	0.57301	154	0.51197	623	0.59448
4-8 years	859	0.64675	164	0.76898	123	0.56697	563	0.62981
9-13 years	574	0.73693	66	0.88804	83	0.81705	423	0.68519
14-18 years	474	0.72082	55	0.89992	82	0.66743	328	0.66886
19-30 years	920	0.68590	34	0.52773	212	0.62859	660	0.72397
31-50 years	1,806	0.63657	98	0.53939	248	0.60289	1,440	0.64841
51-70 years	1,680	0.61278	67	0.62498	252	0.57626	1,344	0.62437
71 + years	722	0.52532	25	0.49165	159	0.50710	529	0.52627
Female								
1-3 years	942	0.52217	172	0.45037	161	0.51487	601	0.53661
4-8 years	852	0.72617	142	0.58058	139	0.75527	567	0.76640
9-13 years	586	0.76276	86	0.66294	88	0.89548	403	0.75480
14-18 years	449	0.81917	47	0.91239	–	–	324	0.74120
19-30 years	808	0.75424	90	0.52501	171	0.75865	538	0.81341
31-50 years	1,690	0.69657	160	0.63255	224	0.62077	1,283	0.71690
51-70 years	1,605	0.67418	107	0.67633	261	0.71167	1,221	0.66108
71 + years	670	0.61586	32	0.58009	179	0.56680	450	0.63376

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Total fat

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.66806	352	0.68494	315	0.70470	1,224	0.66277
4-8 years	1,711	0.76813	306	0.83232	262	0.76260	1,130	0.75197
9-13 years	1,160	0.79698	152	0.78596	171	0.81125	826	0.78311
14-18 years	923	0.74140	102	0.92332	153	0.76397	652	0.70150
19-30 years	1,728	0.74276	124	0.71637	383	0.68262	1,198	0.77414
31-50 years	3,496	0.70254	258	0.80346	472	0.68682	2,723	0.69267
51-70 years	3,285	0.63493	174	0.74366	513	0.61862	2,565	0.63381
71 + years	1,392	0.58807	57	0.72810	338	0.54775	979	0.58540
Male								
1-3 years	966	0.67526	180	0.71614	154	0.65094	623	0.67199
4-8 years	859	0.80141	164	0.87588	123	0.76004	563	0.78120
9-13 years	574	0.84989	66	0.94826	83	0.94876	423	0.81233
14-18 years	474	0.73897	55	0.77843	82	0.76420	328	0.74518
19-30 years	920	0.81057	34	0.89931	212	0.74189	660	0.83419
31-50 years	1,806	0.68598	98	0.78387	248	0.63257	1,440	0.68933
51-70 years	1,680	0.62872	67	0.80284	252	0.61137	1,344	0.62541
71 + years	722	0.59005	–	–	159	0.55260	529	0.58103
Female								
1-3 years	942	0.66978	172	0.64558	161	0.76681	601	0.65280
4-8 years	852	0.73394	142	0.79261	139	0.76108	567	0.72590
9-13 years	586	0.73594	86	0.66883	88	0.71243	403	0.75815
14-18 years	449	0.74010	–	–	71	0.75710	324	0.67194
19-30 years	808	0.68276	90	0.67340	171	0.62670	538	0.72320
31-50 years	1,690	0.71865	160	0.84373	224	0.75874	1,283	0.69601
51-70 years	1,605	0.64895	107	0.69586	261	0.64092	1,221	0.65723
71 + years	670	0.59525	32	0.51084	179	0.57215	450	0.58929

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Saturated fat

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.58526	352	0.66474	315	0.61781	1,224	0.55253
4-8 years	1,711	0.76631	306	0.75043	262	0.80281	1,130	0.75876
9-13 years	1,160	0.82117	152	0.82081	171	0.85772	826	0.82246
14-18 years	923	0.74213	102	0.86551	153	0.82102	652	0.69022
19-30 years	1,728	0.74203	124	0.75077	383	0.72995	1,198	0.74800
31-50 years	3,496	0.73557	258	0.84039	472	0.67061	2,723	0.70185
51-70 years	3,285	0.61362	174	0.78145	513	0.60805	2,565	0.60849
71 + years	1,392	0.53249	57	0.54960	338	0.52525	979	0.52202
Male								
1-3 years	966	0.56861	180	0.71703	154	0.54811	623	0.53945
4-8 years	859	0.81057	164	0.77466	123	0.89010	563	0.78559
9-13 years	574	0.85565	66	0.84709	–	–	423	0.83993
14-18 years	474	0.72580	55	0.68063	82	0.80246	328	0.70234
19-30 years	920	0.80299	–	–	212	0.79731	660	0.79476
31-50 years	1,806	0.72049	98	0.82855	248	0.69036	1,440	0.71333
51-70 years	1,680	0.60657	67	0.70136	252	0.56218	1,344	0.61148
71 + years	722	0.52599	–	–	159	0.53590	529	0.50599
Female								
1-3 years	942	0.60727	172	0.61850	161	0.70628	601	0.56876
4-8 years	852	0.72616	142	0.71882	139	0.75291	567	0.74677
9-13 years	586	0.79391	86	0.80269	88	0.75272	403	0.81076
14-18 years	449	0.75438	–	–	71	0.84080	324	0.68858
19-30 years	808	0.69192	90	0.70251	171	0.65297	538	0.70805
31-50 years	1,690	0.70468	160	0.87385	224	0.66915	1,283	0.69266
51-70 years	1,605	0.62804	107	0.81779	261	0.66631	1,221	0.61865
71 + years	670	0.54013	32	0.36329	179	0.53898	450	0.53521

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Cholesterol

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.67030	352	0.65023	315	0.72734	1,224	0.67722
4-8 years	1,711	0.72133	306	0.78508	262	0.79436	1,130	0.71503
9-13 years	1,160	0.77601	152	0.83566	171	0.83326	826	0.75949
14-18 years	923	0.74671	102	0.85082	153	0.86355	652	0.70874
19-30 years	1,728	0.68789	124	0.65526	383	0.64361	1,198	0.73332
31-50 years	–	–	258	0.60040	472	0.66045	2,723	0.68235
51-70 years	3,285	0.66567	174	0.65283	513	0.64164	2,565	0.67099
71 + years	1,392	0.66630	57	0.53950	338	0.59058	979	0.69528
Male								
1-3 years	966	0.67552	180	0.71872	154	0.75661	623	0.65623
4-8 years	859	0.71121	164	0.80972	123	0.81381	563	0.66703
9-13 years	574	0.85027	66	0.93549	83	0.82690	423	0.81586
14-18 years	474	0.80438	–	–	82	0.94176	328	0.72566
19-30 years	920	0.72477	34	0.82630	212	0.63226	660	0.79860
31-50 years	1,806	0.70790	98	0.51583	248	0.74336	1,440	0.71636
51-70 years	1,680	0.72831	67	0.64592	252	0.59870	1,344	0.73214
71 + years	722	0.67255	25	0.79881	159	0.59083	529	0.69480
Female								
1-3 years	942	0.67583	172	0.58425	161	0.70023	601	0.70333
4-8 years	852	0.75225	142	0.76085	139	0.76549	567	0.78541
9-13 years	586	0.76585	86	0.75299	88	0.90712	403	0.76363
14-18 years	449	0.83348	47	0.76784	71	0.88098	324	0.84839
19-30 years	808	0.78032	90	0.69824	171	0.81079	538	0.79565
31-50 years	1,690	0.75123	160	0.70356	224	0.67035	1,283	0.78564
51-70 years	1,605	0.74004	107	0.69665	261	0.79881	1,221	0.72031
71 + years	670	0.71629	32	0.40638	179	0.67220	450	0.74579

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Vitamin C

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.62903	352	0.58485	315	0.64053	1,224	0.63547
4-8 years	1,711	0.69570	306	0.68078	262	0.74402	1,130	0.68738
9-13 years	1,160	0.69614	152	0.68223	171	0.76334	826	0.68178
14-18 years	923	0.67458	102	0.71523	153	0.74638	652	0.65058
19-30 years	1,728	0.68600	124	0.69163	383	0.73440	1,198	0.67622
31-50 years	–	–	258	0.73645	472	0.61572	2,723	0.60307
51-70 years	3,285	0.54548	174	0.70212	513	0.55520	2,565	0.53891
71 + years	1,392	0.46944	57	0.52685	338	0.55509	979	0.45127
Male								
1-3 years	966	0.63841	180	0.64068	154	0.63147	623	0.64284
4-8 years	859	0.69102	164	0.77478	123	0.84344	563	0.61959
9-13 years	574	0.77886	66	0.83669	83	0.84583	423	0.72259
14-18 years	474	0.64437	55	0.87923	82	0.69055	328	0.61043
19-30 years	920	0.65510	34	0.91794	212	0.71618	660	0.64557
31-50 years	1,806	0.59951	98	0.65047	248	0.56114	1,440	0.60299
51-70 years	1,680	0.52239	67	0.70229	252	0.47381	1,344	0.53339
71 + years	722	0.41210	25	0.44043	159	0.47313	529	0.41198
Female								
1-3 years	942	0.62195	172	0.52377	161	0.65199	601	0.62595
4-8 years	852	0.71441	142	0.58840	139	0.65243	567	0.76110
9-13 years	586	0.63838	86	0.60327	88	0.70354	403	0.63890
14-18 years	449	0.73566	47	0.53593	71	0.82180	324	0.72019
19-30 years	808	0.74220	90	0.61317	171	0.76672	538	0.74196
31-50 years	1,690	0.64171	160	0.78020	224	0.69003	1,283	0.61204
51-70 years	1,605	0.57501	107	0.68254	261	0.65381	1,221	0.55283
71 + years	670	0.56238	32	0.63743	179	0.62702	450	0.51489

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Iron

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.54994	352	0.57906	315	0.45683	1,224	0.56713
4-8 years	1,711	0.64589	306	0.63392	262	0.66086	1,130	0.65030
9-13 years	1,160	0.67053	152	0.63939	171	0.67176	826	0.67339
14-18 years	923	0.56598	102	0.67432	153	0.61818	652	0.52707
19-30 years	1,728	0.62329	124	0.54429	383	0.63122	1,198	0.64736
31-50 years	3,496	0.53375	258	0.49428	472	0.53548	2,723	0.53922
51-70 years	3,285	0.52014	174	0.56471	513	0.51311	2,565	0.52818
71 + years	1,392	0.45859	57	0.54916	338	0.49621	979	0.45054
Male								
1-3 years	966	0.58214	180	0.56728	154	0.51029	623	0.60189
4-8 years	859	0.64141	164	0.69790	123	0.68960	563	0.62234
9-13 years	574	0.72306	66	0.67791	83	0.66723	423	0.71389
14-18 years	474	0.64303	55	0.92655	82	0.53605	328	0.64734
19-30 years	920	0.67515	34	0.74362	212	0.69430	660	0.68029
31-50 years	1,806	0.59387	98	0.40466	248	0.59148	1,440	0.60390
51-70 years	1,680	0.55213	67	0.70141	252	0.50332	1,344	0.56296
71 + years	722	0.45455	25	0.41072	159	0.56508	529	0.43853
Female								
1-3 years	942	0.52103	172	0.59212	161	0.43540	601	0.52931
4-8 years	852	0.67774	142	0.58623	139	0.72953	567	0.70946
9-13 years	586	0.68630	86	0.65385	88	0.72648	403	0.69255
14-18 years	449	0.66157	47	0.58730	71	0.84984	324	0.59405
19-30 years	808	0.72109	90	0.51772	171	0.73920	538	0.77178
31-50 years	1,690	0.61006	160	0.62091	224	0.59220	1,283	0.61320
51-70 years	1,605	0.59650	107	0.50000	261	0.57957	1,221	0.61255
71 + years	670	0.52587	32	0.62417	179	0.45487	450	0.54324

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Table C-1—CSFII variance components for 10 nutrients — Continued

Zinc

	Total Persons		Currently Receiving Food Stamps		Income-eligible Nonparticipant		Higher-income Nonparticipant	
	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance	Sample size	Within-individual variance
Both sexes								
1-3 years	1,908	0.63077	352	0.64054	315	0.60033	1,224	0.63512
4-8 years	1,711	0.68683	306	0.73204	262	0.64124	1,130	0.68966
9-13 years	1,160	0.72610	152	0.65371	171	0.82400	826	0.73444
14-18 years	923	0.64606	102	0.80297	153	0.64929	652	0.62049
19-30 years	1,728	0.66328	124	0.61973	383	0.62745	1,198	0.69342
31-50 years	3,496	0.60474	258	0.51204	472	0.64449	2,723	0.60667
51-70 years	3,285	0.60836	174	0.74425	513	0.63880	2,565	0.59656
71 + years	1,392	0.57332	57	0.67141	338	0.59190	979	0.57223
Male								
1-3 years	966	0.63073	180	0.57716	154	0.60849	623	0.64521
4-8 years	859	0.68304	164	0.78017	123	0.58445	563	0.67441
9-13 years	574	0.81480	66	0.72099	83	0.79581	423	0.82717
14-18 years	474	0.76878	–	–	82	0.52539	328	0.78264
19-30 years	920	0.72542	34	0.72904	212	0.65752	660	0.75600
31-50 years	1,806	0.70032	98	0.56022	248	0.77872	1,440	0.69187
51-70 years	1,680	0.65664	67	0.77270	252	0.67492	1,344	0.65029
71 + years	722	0.58192	25	0.48673	159	0.63184	529	0.58255
Female								
1-3 years	942	0.64234	172	0.74207	161	0.61132	601	0.63745
4-8 years	852	0.71259	142	0.66702	139	0.70340	567	0.72876
9-13 years	586	0.71205	86	0.63590	88	0.94726	403	0.71641
14-18 years	449	0.73887	47	0.72386	71	0.93249	324	0.67197
19-30 years	808	0.80706	90	0.67039	171	0.82128	538	0.83448
31-50 years	1,690	0.69402	160	0.57474	224	0.66773	1,283	0.71305
51-70 years	1,605	0.70998	107	0.80030	261	0.68770	1,221	0.70447
71 + years	670	0.65633	–	–	179	0.58598	450	0.65007

– Data not available. Estimate of within-person variance could not be obtained from CSFII.

Source: Variance components were estimated from two days of 24-hour recalls from the *Continuing Survey of Food Intakes by Individuals (CSFII)* using *C-SIDE: Software for Intake Distribution Estimation.*

Appendix D
Detailed Tables

Chapter Two
Usual Intake of Food Energy and Nutrients

Chapter Three
Healthy Eating Index Scores and Usual Intake of Dietary Fiber

Chapter Four
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Chapter Five
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Chapter Six
Health Status, Conditions, and Risks

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Access to Health Care Services

Table D-1—Percent of income-eligible persons participating in the Supplemental Nutrition Program for Women, Infants, and Children (WIC)

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants[1]		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Women[2]	598	21.5	2.78	269	27.4	3.98	204	22.1	5.92	106	›› 9.8 *	3.93
Infants	1,050	65.3	1.83	458	81.8	1.92	317	››› 55.0	3.40	229	››› 40.5	4.04
Children												
1 year old	783	48.1	2.96	382	64.0	3.31	237	››› 38.7	4.82	133	››› 19.1	5.08
2 years old	786	26.6	2.40	391	39.0	3.62	237	››› 19.0	3.08	146	››› 7.1 *	2.36
3 years old	702	24.9	2.77	344	34.4	4.42	236	23.5	5.36	115	››› 4.9 *	1.92
4 years old	678	17.6	2.37	319	22.6	3.90	244	16.2	3.66	109	››› 3.6 *	1.66
All children	2,949	29.4	1.69	1,436	40.0	2.79	954	››› 24.2	2.62	503	››› 8.9	1.64
Total	4,602	31.4	1.49	2,164	41.6	2.25	1,476	››› 27.0	3.02	840	››› 13.0	2.12

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 For this table, higher-income nonparticipants are limited to persons with income at or below the WIC income-eligibility cutoff (185 percent of poverty).
2 Women includes pregnant women and women who gave birth in past 12 months.

Source: NHANES-III, 1988-94: Examination file. If WIC participation was not reported for sampled person, nonparticipation was assumed if respondent indicated no WIC participants in family on the household interview.

Table D-2—Percent of 5-16-year-old children attending school that participates in the National School Lunch Program

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
5 years	735	84.0	1.8	234	86.7 *	5.9	134	82.9 *	5.4	327	85.3	2.9
6-11 years	3,428	91.6	1.3	976	98.7 *	0.6	702	› 95.0 *	1.9	1,528	››› 89.1	1.9
12-16 years	2,153	95.6	0.8	554	98.1 *	1.1	439	95.8 *	2.6	1,014	› 94.9	1.0
Total, age adjusted	6,316	92.6	0.9	1,764	97.5	0.8	1,275	94.4	2.1	2,869	››› 91.2	1.2
Male												
5 years	355	82.3	3.1	113	80.3 *	9.8	61	75.1 *	9.2	156	87.7 *	3.7
6-11 years	1,745	92.1	1.2	473	98.6 *	0.8	349	› 90.1 *	3.8	806	››› 90.7	1.6
12-16 years	1,002	94.7	1.4	261	98.7 *	0.7	211	91.7 *	4.7	458	› 94.3 *	1.6
Total, age adjusted	3,102	92.4	1.0	847	97.1 *	0.9	621	89.6	3.9	1,420	›› 92.0	1.3
Female												
5 years	380	86.0	2.9	121	92.9 *	2.4	73	92.6 *	2.9	171	82.6 *	4.7
6-11 years	1,683	91.2	1.7	503	98.8 *	0.7	353	99.3 *	0.5	722	››› 87.3	2.6
12-16 years	1,151	96.5 *	0.8	293	97.6 *	2.0	228	99.8 *	0.2	556	95.4 *	1.2
Total, age adjusted	3,214	92.9	1.0	917	97.8 *	0.9	654	99.0 *	0.4	1,449	››› 90.2	1.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview files. Total includes persons with missing food stamp participation or income.

Table D-3—Percent of 5-16-year-old children usually eating school lunch 5 days per week

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
5 years	735	38.0	3.8	234	75.2 *	6.5	134	›› 50.3 *	7.6	327	››› 25.5	4.2
6-11 years	3,428	55.3	2.3	976	88.4	3.3	702	›› 70.2	5.2	1,528	››› 42.9	3.0
12-16 years	2,153	54.8	2.5	554	73.2	4.6	439	60.6	5.2	1,014	››› 50.4	2.9
Total, age adjusted	6,316	53.7	2.0	1,764	81.1	2.7	1,275	››› 64.6	3.8	2,869	››› 44.6	2.3
Male												
5 years	355	32.6	4.4	113	70.0 *	9.2	61	42.6 *	11.4	156	››› 21.6 *	4.6
6-11 years	1,745	56.3	2.5	473	87.9 *	4.4	349	›› 67.2	5.2	806	››› 46.5	3.2
12-16 years	1,002	63.4	2.5	261	78.7 *	4.6	211	› 60.5	7.2	458	›› 62.9	3.3
Total, age adjusted	3,102	57.3	1.9	847	82.7	3.4	621	››› 62.5	4.2	1,420	››› 51.2	2.3
Female												
5 years	380	44.0	5.2	121	80.3 *	4.9	73	› 59.8 *	9.4	171	››› 30.1	5.7
6-11 years	1,683	54.3	2.8	503	88.8 *	3.0	353	› 72.7	6.2	722	››› 38.9	3.8
12-16 years	1,151	46.1	3.2	293	67.9	6.1	228	60.7	6.9	556	››› 37.8	3.6
Total, age adjusted	3,214	50.1	2.3	917	79.5	2.8	654	› 66.7	4.8	1,449	››› 37.7	2.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview files. Total includes persons with missing food stamp participation or income.

Table D-4—Percent of 5-16-year-old children attending school that participates in the School Breakfast Program

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
5 years	731	47.4	4.0	233	72.1	6.5	133	›› 46.6 *	7.8	326	››› 41.3	4.6
6-11 years	3,410	51.9	2.8	972	80.7	2.9	701	››› 57.3	5.8	1,514	››› 43.1	3.0
12-16 years	2,110	49.9	2.6	548	61.8	5.7	437	62.1	6.9	981	›› 45.6	3.2
Total, age adjusted	6,251	50.7	2.3	1,753	72.2	2.9	1,271	› 58.4	5.6	2,821	››› 44.0	2.4
Male												
5 years	355	40.0	4.6	113	63.1 *	8.7	61	› 36.2 *	9.1	156	››› 35.6	5.7
6-11 years	1,739	49.8	2.9	474	81.6	3.0	350	›› 59.6	7.2	797	››› 40.9	3.3
12-16 years	987	53.4	3.6	258	66.3	7.0	210	56.7 *	10.2	448	› 51.8	4.0
Total, age adjusted	3,081	50.5	2.7	845	73.8	3.5	621	› 56.5	7.7	1,401	››› 45.0	2.9
Female												
5 years	376	55.8	4.8	120	81.0 *	4.2	72	› 59.4 *	11.2	170	››› 47.8	6.3
6-11 years	1,671	54.0	3.0	498	79.9	3.2	351	››› 55.3	6.6	717	››› 45.6	3.4
12-16 years	1,123	46.1	3.3	290	57.3	6.9	227	67.4 *	6.7	533	› 39.0	4.2
Total, age adjusted	3,170	50.9	2.4	908	70.7	3.1	650	60.6	5.2	1,420	››› 43.1	2.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview files. Total includes persons with missing food stamp participation or income.

Table D-5—Percent of 5-16-year-old children usually eating school breakfast 5 days per week

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
5 years	731	14.7	2.2	233	43.0	7.0	133	›› 18.3 *	5.6	326	››› 6.6	1.5
6-11 years	3,410	16.0	1.5	972	47.6	3.0	701	››› 25.8	3.6	1,514	››› 5.2	0.9
12-16 years	2,110	8.5	1.0	548	24.7	4.2	437	› 13.6	2.0	981	››› 3.6	0.8
Total, age adjusted	6,251	12.8	1.0	1,753	37.8	2.4	1,271	››› 20.2	2.3	2,821	››› 4.6	0.6
Male												
5 years	355	10.2	1.9	113	28.8 *	5.6	61	› 12.2 *	4.1	156	››› 5.5 *	1.9
6-11 years	1,739	15.1	1.5	474	48.3	3.5	350	›› 30.1	4.9	797	››› 4.2	0.8
12-16 years	987	10.7	1.8	258	29.8	5.8	210	› 14.8	3.6	448	››› 5.5	1.6
Total, age adjusted	3,081	12.9	1.3	845	39.1	3.1	621	››› 22.3	3.2	1,401	››› 4.9	0.9
Female												
5 years	376	19.8	4.0	120	57.0 *	7.8	72	› 26.0 *	10.8	170	››› 7.9 *	2.2
6-11 years	1,671	16.8	1.9	498	47.0	4.6	351	››› 22.0	4.4	717	››› 6.2	1.2
12-16 years	1,123	6.3	0.8	290	19.6	3.4	227	12.5	2.8	533	››› 1.6 *	0.5
Total, age adjusted	3,170	12.8	1.0	908	36.6	2.4	650	››› 18.5	2.4	1,420	››› 4.4	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview files. Total includes persons with missing food stamp participation or income.

Table D-6—Percent of older adults receiving benefits from the Elderly Nutrition Program

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
60-69 years	2,600	1.6	0.4	305	6.7 *	3.2	494	4.8	2.2	1,539	0.8 *	0.3
70-79 years	2,151	4.1	0.7	197	12.1 *	3.6	451	6.5	1.5	1,268	›› 3.1	0.8
80 + years	1,826	10.8	1.0	151	16.8	3.9	446	14.1	1.9	917	› 8.0	1.4
Total, age adjusted	6,577	4.4	0.4	653	10.7	2.4	1,391	7.3	1.2	3,724	›› 3.1	0.5
Male												
60-69 years	1,297	1.6	0.6	130	9.0 *	5.2	235	7.7 *	4.7	813	0.6 *	0.3
70-79 years	989	3.0	0.8	81	21.6 *	7.2	183	› 5.4 *	1.9	632	›› 1.7 *	0.6
80 + years	824	9.9	1.0	57	21.4 *	7.7	168	12.5 *	3.7	482	8.1	1.1
Total, age adjusted	3,110	3.8	0.4	268	16.0	4.2	586	7.9	2.2	1,927	›› 2.5	0.3
Female												
60-69 years	1,303	1.6 *	0.3	175	5.8 *	2.6	259	2.6 *	1.8	726	1.0 *	0.4
70-79 years	1,162	4.9	0.9	116	7.5 *	2.3	268	6.9 *	2.0	636	4.3	1.2
80 + years	1,002	11.3	1.4	94	15.3 *	4.0	278	14.7	2.2	435	7.9	2.1
Total, age adjusted	3,467	4.7	0.6	385	8.3	1.8	805	6.6	1.2	1,797	› 3.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult interview file. Question was administered to respondents age 60 years and over.

Table D-7—Distribution of persons by household food sufficiency status

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough
Both sexes																
Under 1 year	2,099	92.6	6.6	0.7	502	82.8	15.6	1.6	340	84.6	13.8	1.6	1,131	›››98.5	›››1.5	› 0.0
1-2 years	2,679	93.1	6.4	0.5	851	81.1	18.1	0.8	509	86.1	› 11.7	2.2	1,132	›››98.9	›››1.1	› 0.0
3-5 years	3,452	93.5	6.2	0.3	1,083	81.1	18.4	0.4	720	88.8	10.6	0.6	1,462	›››99.3	›››0.6	>0
6-11 years	3,458	94.4	4.9	0.8	992	84.0	15.3	0.7	708	87.3	› 8.9	3.8	1,540	›››98.7	›››1.2	0.1
12-19 years	3,425	94.1	5.2	0.7	828	82.2	14.4	3.5	761	86.1	13.1	0.8	1,568	›››98.4	›››1.4	› 0.2
20-29 years	3,772	94.7	5.0	0.3	676	82.3	17.5	0.2	874	87.7	11.4	0.9	1,929	›››98.1	›››1.7	0.2
30-39 years	3,585	96.4	2.8	0.8	578	82.8	14.1	3.1	623	86.5	9.0	4.4	2,165	›››99.0	›››0.9	0.1
40-49 years	2,788	97.1	2.2	0.6	372	78.7	15.3	6.0	416	88.2	9.9	1.8	1,796	›››99.4	›››0.5	0.1
50-59 years	2,040	97.7	1.9	0.4	219	82.0	15.3	2.7	279	› 93.5	› 3.7	2.8	1,386	›››99.3	›› 0.7	0.0
60-69 years	2,603	98.3	1.6	0.2	306	83.1	16.9	0.0	497	› 96.0	› 3.2	0.8	1,540	›› 99.7	›››0.2	0.1
70-79 years	2,139	98.2	1.7	0.1	197	90.5	9.5	>0	450	95.0	4.4	0.6	1,268	› 99.6	› 0.4	0.0
80 + years	1,816	98.6	1.3	0.1	151	94.6	4.7	0.7	447	97.5	2.5	0.0	918	›› 99.3	›› 0.7	>0
Total, age adjusted	33,856	96.0	3.4	0.5	6,755	82.8	14.9	2.3	6,624	›› 89.3	›››8.6	2.0	17,835	›››99.0	›››0.9	› 0.1
Male																
Under 1 year	1,062	92.5	6.6	0.9	241	82.0	15.7	2.4	163	84.2	12.8	3.0	589	›››98.2	›››1.8	› 0.0
1-2 years	1,343	92.7	7.0	0.3	457	79.0	20.2	0.7	238	85.9	13.6	0.5	555	›››99.6	›››0.4	› 0.0
3-5 years	1,669	94.9	4.9	0.2	523	85.5	14.3	0.2	342	88.9	10.2	0.9	708	›››99.6	›››0.4	0.0
6-11 years	1,762	94.8	4.6	0.6	484	82.4	17.0	0.6	352	88.8	› 8.1	3.1	812	›››98.9	›››0.9	0.2
12-19 years	1,613	93.7	5.5	0.8	373	77.9	17.7	4.4	374	84.0	15.2	0.9	725	›››98.4	›››1.4	0.2
20-29 years	1,794	95.0	4.6	0.4	225	81.4	18.0	0.6	437	87.0	12.5	0.5	970	›› 97.9	›› 1.7	0.4
30-39 years	1,616	96.6	2.5	1.0	190	81.0	14.7	4.3	276	82.6	9.9	7.4	1,047	›› 99.2	›› 0.8	>0
40-49 years	1,322	97.4	2.0	0.6	139	81.2	14.0	4.8	211	89.5	7.6	2.9	878	›› 99.1	›› 0.8	0.2
50-59 years	944	97.3	2.0	0.7	82	76.4	17.8	5.9	131	91.6	4.3	4.1	667	›› 99.1	0.9	0.0
60-69 years	1,297	98.2	1.6	0.2	130	72.6	27.4	0.0	236	›› 96.4	›› 3.1	0.5	813	›› 99.6	›››0.2	0.2
70-79 years	984	98.3	1.7	>0	81	94.2	5.7	0.1	183	92.3	7.3	0.4	632	99.2	0.8	0.0
80 + years	824	98.8	1.1	0.1	57	91.9	8.1	0.0	169	97.8	2.2	0.0	483	99.7	0.3	>0
Total, age adjusted	16,230	96.2	3.3	0.6	2,982	81.0	16.2	2.8	3,112	›› 88.4	›››9.0	2.6	8,879	›››99.0	›››0.9	› 0.1
Female																
Under 1 year	1,037	92.8	6.8	0.5	261	83.6	15.4	1.0	177	85.2	14.8	0.0	542	›››98.9	›››1.1	0.0
1-2 years	1,336	93.5	5.8	0.7	394	83.8	15.3	0.9	271	86.3	10.1	3.6	577	›››98.2	›››1.8	0.0
3-5 years	1,783	92.1	7.5	0.4	560	77.1	22.3	0.7	378	88.7	11.1	0.2	754	›››99.1	›››0.8	0.1
6-11 years	1,696	93.9	5.2	0.9	508	85.4	13.8	0.8	356	86.0	9.5	4.5	728	›››98.5	›››1.5	0.1
12-19 years	1,812	94.4	4.9	0.6	455	85.5	11.8	2.8	387	88.2	11.1	0.7	843	›››98.4	›››1.5	0.1
20-29 years	1,978	94.5	5.3	0.2	451	82.8	17.2	0.1	437	88.3	10.3	1.3	959	›››98.3	›››1.7	>0
30-39 years	1,969	96.3	3.2	0.6	388	83.9	13.7	2.4	347	89.6	8.3	2.0	1,118	›››98.8	›››1.1	0.1
40-49 years	1,466	96.9	2.4	0.7	233	77.2	16.1	6.8	205	87.0	12.0	0.9	918	›››99.7	›› 0.2	>0
50-59 years	1,096	98.0	1.8	0.2	137	85.6	13.8	0.7	148	› 95.3	›› 3.1	1.6	719	›››99.5	›››0.5	0.0
60-69 years	1,306	98.4	1.5	0.1	176	87.4	12.6	0.0	261	95.8	3.2	1.0	727	99.8	0.2	0.0
70-79 years	1,155	98.2	1.7	0.1	116	88.7	11.3	0.0	267	96.1	3.2	0.7	636	› 99.9	› 0.1	0.0
80 + years	992	98.5	1.4	0.1	94	95.6	3.6	0.9	278	97.4	2.6	0.0	435	99.1	0.9	0.0
Total, age adjusted	17,626	95.9	3.6	0.4	3,773	83.8	14.2	2.0	3,512	› 90.1	›› 8.4	1.5	8,956	›››99.0	›››0.9	› 0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.
>0 Value to small to display.

Table D-8—Standard errors for distribution by household food sufficiency status

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough	Sample size	Enough food to eat	Sometimes not enough	Often not enough
Both sexes																
Under 1 year	2,099	0.8	0.7	0.2	502	2.4	2.2	0.6	340	2.0	2.0	0.7	1,131	0.4	0.4	0.0
1-2 years	2,679	0.7	0.7	0.2	851	2.2	2.3	0.3	509	2.1	2.0	1.1	1,132	0.4	0.4	0.0
3-5 years	3,452	0.6	0.7	0.1	1,083	2.6	2.6	0.2	720	2.1	2.2	0.4	1,462	0.2	0.2	>0
6-11 years	3,458	0.7	0.6	0.3	992	2.3	2.2	0.3	708	2.8	1.8	2.3	1,540	0.5	0.5	0.1
12-19 years	3,425	0.7	0.7	0.2	828	3.0	2.4	1.3	761	3.3	3.3	0.3	1,568	0.6	0.6	0.2
20-29 years	3,772	0.5	0.5	0.1	676	2.8	2.9	0.2	874	1.7	1.6	0.4	1,929	0.4	0.4	0.2
30-39 years	3,585	0.4	0.4	0.4	578	2.6	2.0	1.4	623	3.3	2.4	2.9	2,165	0.3	0.3	>0
40-49 years	2,788	0.5	0.4	0.2	372	5.0	4.0	2.8	416	2.3	2.1	1.0	1,796	0.3	0.3	0.1
50-59 years	2,040	0.5	0.5	0.2	219	4.2	4.2	1.7	279	2.0	1.2	1.6	1,386	0.4	0.4	0.0
60-69 years	2,603	0.4	0.4	0.1	306	4.6	4.6	0.0	497	1.2	1.1	0.5	1,540	0.1	0.1	0.1
70-79 years	2,139	0.3	0.3	0.1	197	3.7	3.7	>0	450	1.6	1.5	0.5	1,268	0.2	0.2	0.0
80 + years	1,816	0.4	0.4	>0	151	1.4	1.3	0.7	447	0.9	0.9	0.0	918	0.4	0.4	>0
Total, age adjusted	33,856	0.3	0.2	0.1	6,755	1.7	1.4	0.8	6,624	1.0	0.9	0.7	17,835	0.1	0.1	>0
Male																
Under 1 year	1,062	0.8	0.8	0.2	241	3.2	3.1	0.8	163	2.3	2.6	1.4	589	0.7	0.7	0.0
1-2 years	1,343	1.0	1.0	0.1	457	3.2	3.3	0.3	238	3.4	3.1	0.5	555	0.2	0.2	0.0
3-5 years	1,669	0.7	0.8	0.1	523	2.0	2.0	0.1	342	3.2	3.4	0.8	708	0.2	0.2	0.0
6-11 years	1,762	0.6	0.6	0.3	484	3.4	3.3	0.3	352	2.9	2.1	2.5	812	0.3	0.3	0.1
12-19 years	1,613	1.1	1.0	0.3	373	4.6	4.2	2.0	374	5.0	5.0	0.4	725	0.6	0.6	0.2
20-29 years	1,794	0.6	0.6	0.2	225	4.7	4.9	0.5	437	2.3	2.3	0.2	970	0.5	0.4	0.3
30-39 years	1,616	0.7	0.5	0.6	190	5.4	4.2	2.8	276	6.6	3.4	6.2	1,047	0.4	0.4	>0
40-49 years	1,322	0.6	0.6	0.3	139	5.2	4.1	3.2	211	3.3	2.7	2.0	878	0.6	0.5	0.2
50-59 years	944	0.8	0.7	0.4	82	6.9	7.1	4.4	131	3.4	1.9	3.0	667	0.7	0.7	0.0
60-69 years	1,297	0.4	0.4	0.2	130	7.6	7.6	0.0	236	1.5	1.6	0.3	813	0.2	0.1	0.2
70-79 years	984	0.6	0.6	>0	81	3.0	3.0	0.1	183	4.1	4.0	0.4	632	0.5	0.5	0.0
80 + years	824	0.4	0.4	0.1	57	3.9	3.9	0.0	169	1.5	1.5	0.0	483	0.3	0.3	>0
Total, age adjusted	16,230	0.3	0.3	0.1	2,982	2.0	1.7	1.0	3,112	1.5	1.1	1.1	8,879	0.1	0.1	0.1
Female																
Under 1 year	1,037	1.3	1.2	0.2	261	3.8	3.4	0.6	177	3.0	3.0	0.0	542	0.5	0.5	0.0
1-2 years	1,336	0.9	0.8	0.3	394	2.6	2.6	0.6	271	2.6	2.5	2.0	577	0.6	0.6	0.0
3-5 years	1,783	1.2	1.2	0.2	560	4.7	4.7	0.3	378	2.8	2.8	0.2	754	0.3	0.3	0.1
6-11 years	1,696	1.1	1.0	0.6	508	2.6	2.5	0.5	356	4.4	2.8	3.6	728	1.0	1.0	>0
12-19 years	1,812	0.7	0.6	0.2	455	2.6	2.2	1.1	387	2.3	2.3	0.4	843	0.6	0.7	0.1
20-29 years	1,978	0.8	0.8	0.1	451	2.9	2.9	0.1	437	2.7	2.6	0.7	959	0.5	0.5	>0
30-39 years	1,969	0.4	0.5	0.2	388	2.3	2.0	1.3	347	2.0	2.4	1.2	1,118	0.4	0.4	0.1
40-49 years	1,466	0.6	0.5	0.3	233	6.3	5.2	3.9	205	2.9	2.8	0.4	918	0.1	0.1	>0
50-59 years	1,096	0.4	0.4	0.1	137	3.4	3.5	0.5	148	1.6	1.3	1.1	719	0.2	0.2	0.0
60-69 years	1,306	0.6	0.6	0.1	176	5.7	5.7	0.0	261	1.8	1.5	0.8	727	0.2	0.2	0.0
70-79 years	1,155	0.4	0.4	0.1	116	4.5	4.5	0.0	267	1.6	1.4	0.7	636	0.1	0.1	0.0
80 + years	992	0.5	0.5	0.1	94	2.2	2.0	0.9	278	1.1	1.1	0.0	435	0.6	0.6	0.0
Total, age adjusted	17,626	0.3	0.2	0.1	3,773	1.8	1.5	0.7	3,512	0.9	0.9	0.5	8,956	0.2	0.2	>0

>0 Value to small to display.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-9—Percent of persons eating fewer than three meals per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	2,279	11.6	0.94	758	17.2	1.71	448	14.4	2.27	923	›››8.8	1.27
3-5 years	2,938	13.7	0.84	944	16.0	1.71	633	18.2	3.12	1,209	› 11.1	1.38
6-11 years	3,134	22.8	1.25	912	23.9	2.31	654	26.6	3.72	1,380	20.6	1.68
12-19 years	3,119	51.0	1.75	765	56.2	3.51	712	54.2	3.77	1,405	49.8	2.28
20-29 years	3,399	49.5	1.41	634	52.0	3.72	801	53.1	3.26	1,706	48.3	2.03
30-39 years	3,238	39.5	1.50	527	49.6	3.89	586	49.3	3.79	1,943	›› 36.6	1.57
40-49 years	2,502	36.6	1.84	342	52.9	5.79	382	50.2	4.99	1,609	›› 34.1	1.99
50-59 years	1,798	31.8	1.64	197	43.4	5.60	253	38.8	3.48	1,209	› 29.6	1.82
60-69 years	2,208	27.1	1.47	261	45.7	5.98	420	32.0	3.83	1,321	›› 25.5	1.54
70-79 years	1,677	21.3	1.31	152	36.2	6.45	348	30.2	3.82	1,019	›› 18.8	1.31
80 + years	1,153	19.9	1.43	102	34.0	7.26	266	23.7	2.91	638	› 17.7	1.65
Total, age adjusted	27,445	34.8	0.80	5,594	44.3	1.56	5,503	41.8	1.63	14,362	›››32.7	0.91
Male												
1-2 years	1,153	10.4	1.16	410	14.7	1.74	210	16.2	2.98	456	›› 7.3	1.56
3-5 years	1,423	15.8	1.42	459	17.7	2.73	303	23.4	4.50	585	12.4	2.44
6-11 years	1,581	22.9	1.45	443	25.4	3.97	322	27.0	4.19	720	20.0	2.22
12-19 years	1,461	50.9	2.09	339	60.5	5.24	350	50.8	6.01	646	50.5	2.79
20-29 years	1,586	54.4	2.13	203	50.1	7.00	399	58.2	4.10	845	53.7	2.96
30-39 years	1,424	41.8	2.24	169	47.4	7.77	256	47.0	5.12	918	40.0	2.29
40-49 years	1,187	38.8	2.44	126	59.8	7.05	195	50.5	7.21	786	›› 36.7	2.88
50-59 years	820	34.9	2.39	72	42.6 *	9.95	116	46.3	7.74	573	33.1	3.25
60-69 years	1,111	28.5	1.91	109	38.0	8.46	202	33.0	5.60	707	27.4	1.96
70-79 years	782	22.9	1.95	67	36.2 *	11.82	147	31.9	5.20	504	20.9	2.11
80 + years	557	19.0	1.95	45	35.1 *	8.21	103	19.9 *	4.13	349	18.8	2.67
Total, age adjusted	13,085	36.8	1.06	2,442	44.8	2.21	2,603	42.9	2.28	7,089	›››35.1	1.28
Female												
1-2 years	1,126	12.9	1.36	348	20.4	2.66	238	› 12.7	3.01	467	›››10.3	1.77
3-5 years	1,515	11.4	1.15	485	14.3	2.49	330	12.5	2.05	624	9.7	1.52
6-11 years	1,553	22.6	1.70	469	22.5	2.93	332	26.3	4.67	660	21.3	2.39
12-19 years	1,658	51.1	2.37	426	53.0	4.11	362	57.4	4.41	759	49.0	2.97
20-29 years	1,813	44.8	1.48	431	52.8	4.36	402	48.0	4.60	861	42.6	2.13
30-39 years	1,814	37.3	2.25	358	50.9	4.41	330	51.1	5.17	1,025	›››33.3	2.47
40-49 years	1,315	34.4	2.12	216	48.8	6.89	187	49.9	6.24	823	› 31.6	2.28
50-59 years	978	29.0	2.07	125	43.9	6.55	137	31.8	6.82	636	›› 26.3	1.85
60-69 years	1,097	25.9	1.66	152	48.7	7.86	218	31.3	5.80	614	›› 23.6	1.75
70-79 years	895	20.2	1.69	85	36.1 *	6.79	201	29.4	4.31	515	›› 17.0	1.76
80 + years	596	20.4	1.81	57	33.6 *	9.21	163	25.1	3.92	289	16.9	1.70
Total, age adjusted	14,360	33.0	0.82	3,152	43.7	1.79	2,900	40.5	2.42	7,273	›››30.4	0.82

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-10—Average number of meals consumed per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-2 years	2,279	3.0	0.02	758	2.9	0.04	448	2.9	0.04	923	› 3.0	0.02
3-5 years	2,938	2.9	0.01	944	3.0	0.03	633	2.9	0.04	1,209	3.0	0.02
6-11 years	3,134	2.8	0.02	912	2.8	0.03	654	2.8	0.04	1,380	2.8	0.02
12-19 years	3,119	2.4	0.03	765	2.3	0.08	712	2.3	0.06	1,405	› 2.4	0.04
20-29 years	3,399	2.5	0.03	634	2.4	0.05	801	2.4	0.04	1,706	2.5	0.03
30-39 years	3,238	2.6	0.03	527	2.5	0.09	586	2.5	0.08	1,943	› 2.7	0.03
40-49 years	2,502	2.7	0.03	342	2.4	0.07	382	2.5	0.07	1,609	››› 2.7	0.03
50-59 years	1,798	2.7	0.03	197	2.5	0.11	253	2.7	0.11	1,209	›› 2.8	0.04
60-69 years	2,208	2.8	0.02	261	2.4	0.08	420	› 2.7	0.06	1,321	››› 2.8	0.03
70-79 years	1,677	2.8	0.02	152	2.6	0.09	348	2.7	0.06	1,019	› 2.9	0.02
80 + years	1,153	2.8	0.02	102	2.7	0.10	266	2.8	0.05	638	› 2.9	0.03
Total, age adjusted	27,445	2.7	0.01	5,594	2.5	0.03	5,503	2.6	0.03	14,362	››› 2.7	0.02
Male												
1-2 years	1,153	3.0	0.02	410	2.9	0.04	210	2.9	0.05	456	3.0	0.03
3-5 years	1,423	2.9	0.02	459	3.0	0.05	303	2.8	0.06	585	2.9	0.03
6-11 years	1,581	2.8	0.02	443	2.8	0.06	322	2.8	0.05	720	2.8	0.04
12-19 years	1,461	2.4	0.04	339	2.1	0.13	350	2.4	0.07	646	›› 2.4	0.05
20-29 years	1,586	2.4	0.03	203	2.5	0.09	399	2.3	0.06	845	2.4	0.04
30-39 years	1,424	2.6	0.04	169	2.6	0.18	256	2.5	0.09	918	2.6	0.04
40-49 years	1,187	2.6	0.04	126	2.3	0.09	195	2.5	0.10	786	››› 2.7	0.05
50-59 years	820	2.7	0.05	72	2.5 *	0.14	116	2.7	0.22	573	› 2.8	0.05
60-69 years	1,111	2.7	0.03	109	2.5	0.11	202	2.7	0.10	707	› 2.7	0.04
70-79 years	782	2.8	0.03	67	2.6 *	0.14	147	2.6	0.09	504	2.8	0.03
80 + years	557	2.9	0.03	45	2.6 *	0.14	103	2.8	0.09	349	2.9	0.04
Total, age adjusted	13,085	2.6	0.02	2,442	2.5	0.04	2,603	2.6	0.04	7,089	››› 2.7	0.02
Female												
1-2 years	1,126	3.0	0.03	348	2.9	0.05	238	3.0	0.06	467	3.0	0.03
3-5 years	1,515	3.0	0.02	485	3.0	0.04	330	3.0	0.05	624	3.0	0.02
6-11 years	1,553	2.8	0.02	469	2.8	0.05	332	2.8	0.05	660	2.8	0.03
12-19 years	1,658	2.4	0.04	426	2.4	0.08	362	2.3	0.07	759	2.4	0.05
20-29 years	1,813	2.6	0.03	431	2.4	0.06	402	2.5	0.06	861	› 2.6	0.04
30-39 years	1,814	2.6	0.04	358	2.4	0.07	330	2.5	0.10	1,025	››› 2.7	0.04
40-49 years	1,315	2.7	0.03	216	2.5	0.08	187	2.5	0.08	823	›› 2.7	0.04
50-59 years	978	2.7	0.04	125	2.5	0.14	137	2.7	0.09	636	›› 2.8	0.04
60-69 years	1,097	2.8	0.03	152	2.4	0.11	218	› 2.7	0.08	614	››› 2.8	0.03
70-79 years	895	2.8	0.03	85	2.6 *	0.11	201	2.7	0.07	515	› 2.9	0.03
80 + years	596	2.8	0.03	57	2.7 *	0.13	163	2.8	0.05	289	2.9	0.02
Total, age adjusted	14,360	2.7	0.01	3,152	2.5	0.03	2,900	2.6	0.03	7,273	››› 2.7	0.01

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-11—Percent of persons who eat breakfast every day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	2,683	93.1	0.5	849	89.4	1.3	507	› 93.6	1.5	1,133	›› 94.4	0.6
3-5 years	3,463	89.7	0.9	1,082	87.2	2.1	720	85.4	3.0	1,461	› 91.9	1.0
6-11 years	3,457	85.3	1.2	989	84.8	2.2	705	80.5	2.8	1,536	86.6	1.4
12-19 years	3,441	14.2	1.2	828	11.2	2.1	761	9.8	1.6	1,568	14.8	1.8
20-29 years	3,782	35.9	1.5	675	37.3	3.5	874	37.5	3.6	1,931	35.4	1.9
30-39 years	3,592	40.6	1.9	578	32.6	3.2	622	› 41.8	4.2	2,164	› 41.1	2.0
40-49 years	2,792	45.8	1.6	372	40.8	6.1	415	38.7	4.1	1,796	46.4	1.8
50-59 years	2,058	59.6	1.4	219	55.2	5.1	279	51.2	4.8	1,386	61.1	1.8
60-69 years	2,600	75.1	1.4	306	66.2	3.9	495	68.9	3.2	1,536	›› 76.5	1.7
70-79 years	2,149	86.4	1.0	197	76.7	6.0	451	86.2	1.7	1,267	87.2	1.4
80 + years	1,823	93.6	0.7	151	89.5 *	2.9	445	92.3	1.4	916	94.2	1.0
Total, age adjusted	31,840	54.4	0.8	6,246	50.1	1.5	6,274	51.2	1.3	16,694	›› 55.2	1.0
Male												
1-2 years	1,343	93.5	0.8	457	90.7	2.2	236	94.2 *	2.0	555	94.7	0.9
3-5 years	1,675	88.8	1.5	523	86.9	4.2	342	82.0	3.6	708	91.1	1.6
6-11 years	1,762	88.1	1.3	483	87.6	2.5	350	85.3	3.8	809	89.3	1.6
12-19 years	1,622	16.0	1.7	373	9.0	2.0	374	8.2	2.0	725	› 17.1	2.3
20-29 years	1,800	33.5	1.7	224	40.1	4.8	437	38.9	4.2	971	31.2	2.1
30-39 years	1,619	37.0	2.2	190	29.6	5.4	275	›› 53.2	6.8	1,047	35.0	2.4
40-49 years	1,323	43.2	2.1	139	39.4	5.9	210	42.1	5.8	878	43.0	2.3
50-59 years	953	56.2	2.2	82	63.1 *	6.7	131	49.1	7.3	667	56.9	2.9
60-69 years	1,295	75.0	1.8	130	71.2	6.5	236	66.5	5.5	811	76.3	2.2
70-79 years	988	86.6	1.5	81	77.8 *	7.0	183	82.0	4.8	632	88.4	1.7
80 + years	823	96.1	0.7	57	92.8 *	3.5	168	94.7 *	1.8	481	96.7 *	0.9
Total, age adjusted	15,203	53.3	0.9	2,739	51.3	1.6	2,942	53.2	1.9	8,284	53.3	1.1
Female												
1-2 years	1,340	92.7	0.9	392	87.8	1.6	271	93.0 *	2.3	578	››› 94.1	1.2
3-5 years	1,788	90.8	1.0	559	87.5	2.1	378	89.2	2.8	753	› 92.7	1.4
6-11 years	1,695	82.3	1.5	506	82.4	3.4	355	76.2	4.2	727	83.7	2.0
12-19 years	1,819	12.4	1.3	455	12.8	3.1	387	11.2	2.3	843	12.2	2.0
20-29 years	1,982	38.3	2.0	451	35.8	3.8	437	36.2	5.4	960	39.9	2.5
30-39 years	1,973	44.2	2.5	388	34.3	4.3	347	32.9	4.9	1,117	›› 47.3	2.7
40-49 years	1,469	48.3	2.3	233	41.7	8.6	205	35.7	5.6	918	49.9	2.6
50-59 years	1,105	62.8	1.7	137	50.2	6.6	148	53.2	7.2	719	› 65.2	1.9
60-69 years	1,305	75.1	1.9	176	64.2	5.3	259	70.8	4.6	725	› 76.8	2.2
70-79 years	1,161	86.3	1.4	116	76.2	6.4	268	88.0	2.0	635	86.2	1.8
80 + years	1,000	92.2	0.9	94	88.4 *	3.9	277	91.4 *	1.9	435	92.4	1.4
Total, age adjusted	16,637	55.6	0.9	3,507	49.5	2.1	3,332	49.5	1.6	8,410	››› 57.1	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-12—Percent of persons eating at least one snack per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	2,279	96.7	0.5	758	94.6	1.2	448	›› 97.9 *	0.6	923	96.9	0.6
3-5 years	2,938	94.1	0.6	944	91.6	1.5	633	93.1	1.4	1,209	› 95.1	0.8
6-11 years	3,134	89.8	1.1	912	89.6	1.4	654	91.2	2.0	1,380	89.9	1.6
12-19 years	3,119	88.6	0.8	765	88.1	1.7	712	85.3	2.2	1,405	89.6	1.1
20-29 years	3,399	86.7	0.9	634	86.2	1.8	801	85.4	2.2	1,706	87.5	1.2
30-39 years	3,238	89.3	1.1	527	87.7	2.5	586	84.0	2.2	1,943	90.4	1.2
40-49 years	2,502	91.8	0.8	342	82.0	4.9	382	86.6	3.2	1,609	› 93.0	0.8
50-59 years	1,798	88.5	0.9	197	75.5	6.3	253	83.7	3.4	1,209	› 90.1	0.9
60-69 years	2,208	87.0	1.2	261	78.0	4.5	420	83.8	3.5	1,321	› 88.5	1.4
70-79 years	1,677	78.7	1.4	152	66.6	4.9	348	74.5	3.1	1,019	›› 80.6	1.7
80 + years	1,153	72.3	2.0	102	59.0	5.1	266	›› 76.6	3.2	638	›› 73.1	2.2
Total, age adjusted	27,445	88.2	0.5	5,594	82.9	1.2	5,503	85.3	1.0	14,362	››› 89.3	0.6
Male												
1-2 years	1,153	96.4	0.6	410	94.2	1.3	210	› 97.9 *	0.7	456	96.8 *	1.0
3-5 years	1,423	95.0	0.8	459	91.8	2.0	303	94.4 *	1.7	585	96.1	1.0
6-11 years	1,581	91.4	1.1	443	89.8	1.5	322	› 94.4 *	1.4	720	91.7	1.6
12-19 years	1,461	88.7	1.3	339	87.1	3.0	350	83.0	3.4	646	90.1	1.4
20-29 years	1,586	87.1	1.2	203	81.1	2.6	399	83.8	3.2	845	›› 88.5	1.7
30-39 years	1,424	88.1	1.8	169	85.4	4.8	256	83.2	4.0	918	89.2	2.0
40-49 years	1,187	90.6	1.2	126	78.9	6.9	195	80.9	5.7	786	92.0	1.2
50-59 years	820	88.2	1.3	72	65.7 *	11.9	116	82.4	5.3	573	› 89.9	1.2
60-69 years	1,111	86.8	1.6	109	70.5	8.2	202	85.1	3.9	707	› 88.2	1.8
70-79 years	782	78.1	2.2	67	71.3 *	9.3	147	62.8	5.6	504	80.6	2.4
80 + years	557	71.1	2.2	45	56.2 *	9.8	103	70.9	5.6	349	73.8	2.7
Total, age adjusted	13,085	88.0	0.7	2,442	79.8	1.9	2,603	83.2	1.4	7,089	››› 89.4	0.7
Female												
1-2 years	1,126	96.9	0.7	348	95.2 *	2.1	238	97.8 *	0.8	467	97.0 *	0.9
3-5 years	1,515	93.2	1.0	485	91.3	2.6	330	91.6	1.8	624	94.0	1.2
6-11 years	1,553	88.2	1.7	469	89.5	2.5	332	88.4	3.5	660	88.0	2.3
12-19 years	1,658	88.4	1.0	426	88.8	1.8	362	87.5	2.4	759	89.2	1.6
20-29 years	1,813	86.4	1.3	431	88.6	2.4	402	87.1	2.6	861	86.3	1.8
30-39 years	1,814	90.5	1.1	358	89.1	2.4	330	84.6	2.2	1,025	91.6	1.4
40-49 years	1,315	93.0	0.9	216	83.8	4.6	187	92.4 *	1.4	823	› 94.0	1.0
50-59 years	978	88.8	1.5	125	81.0	5.2	137	85.0	3.9	636	90.2	1.7
60-69 years	1,097	87.1	1.5	152	80.9	4.8	218	82.8	4.8	614	88.7	1.8
70-79 years	895	79.0	1.8	85	63.9	5.8	201	› 79.4	3.5	515	›› 80.5	2.1
80 + years	596	73.0	2.4	57	60.0 *	5.6	163	›› 78.7	3.4	289	› 72.7	2.6
Total, age adjusted	14,360	88.4	0.6	3,152	84.5	1.2	2,900	86.9	0.9	7,273	››› 89.2	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-13—Average number of snacks consumed per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-2 years	2,279	3.1	0.06	758	2.9	0.11	448	3.0	0.11	923	› 3.2	0.07
3-5 years	2,938	2.5	0.05	944	2.3	0.10	633	2.6	0.14	1,209	› 2.5	0.06
6-11 years	3,134	2.0	0.06	912	1.9	0.14	654	2.2	0.14	1,380	2.0	0.08
12-19 years	3,119	2.0	0.04	765	2.0	0.10	712	1.8	0.08	1,405	2.1	0.06
20-29 years	3,399	2.1	0.04	634	2.0	0.08	801	2.0	0.08	1,706	›› 2.2	0.06
30-39 years	3,238	2.5	0.08	527	2.1	0.14	586	2.3	0.12	1,943	››› 2.6	0.09
40-49 years	2,502	2.5	0.06	342	1.9	0.20	382	2.1	0.12	1,609	››› 2.6	0.06
50-59 years	1,798	2.4	0.07	197	1.7	0.16	253	2.4	0.25	1,209	››› 2.5	0.09
60-69 years	2,208	2.1	0.07	261	1.4	0.13	420	1.7	0.12	1,321	››› 2.2	0.07
70-79 years	1,677	1.6	0.04	152	1.0	0.10	348	› 1.4	0.12	1,019	››› 1.6	0.05
80 + years	1,153	1.3	0.05	102	1.0 *	0.10	266	›› 1.4	0.07	638	›› 1.3	0.06
Total, age adjusted	27,445	2.2	0.03	5,594	1.8	0.06	5,503	›› 2.0	0.04	14,362	››› 2.3	0.04
Male												
1-2 years	1,153	3.1	0.07	410	2.8	0.14	210	2.9	0.15	456	› 3.2	0.10
3-5 years	1,423	2.5	0.07	459	2.2	0.11	303	2.6	0.24	585	› 2.5	0.09
6-11 years	1,581	2.0	0.07	443	1.8	0.20	322	2.1	0.12	720	2.1	0.10
12-19 years	1,461	2.1	0.07	339	2.0	0.13	350	1.8	0.13	646	2.2	0.10
20-29 years	1,586	2.2	0.07	203	1.8	0.09	399	› 2.1	0.11	845	››› 2.3	0.10
30-39 years	1,424	2.5	0.12	169	2.0	0.26	256	2.4	0.20	918	› 2.6	0.14
40-49 years	1,187	2.6	0.08	126	2.0	0.24	195	2.1	0.24	786	›› 2.7	0.08
50-59 years	820	2.5	0.11	72	1.6 *	0.33	116	2.4	0.49	573	›› 2.6	0.13
60-69 years	1,111	2.1	0.09	109	1.3 *	0.22	202	1.7	0.14	707	››› 2.2	0.10
70-79 years	782	1.6	0.07	67	1.1 *	0.20	147	1.1	0.13	504	›› 1.7	0.08
80 + years	557	1.3	0.08	45	1.0 *	0.20	103	1.3	0.15	349	1.4	0.10
Total, age adjusted	13,085	2.3	0.05	2,442	1.8	0.08	2,603	›› 2.1	0.07	7,089	››› 2.4	0.05
Female												
1-2 years	1,126	3.1	0.07	348	2.9	0.13	238	3.1	0.14	467	3.1	0.09
3-5 years	1,515	2.5	0.09	485	2.3	0.17	330	2.5	0.14	624	2.5	0.11
6-11 years	1,553	1.9	0.07	469	2.0	0.12	332	2.2	0.21	660	1.8	0.08
12-19 years	1,658	2.0	0.04	426	2.0	0.14	362	1.8	0.09	759	2.0	0.06
20-29 years	1,813	2.0	0.05	431	2.0	0.11	402	1.9	0.15	861	2.1	0.06
30-39 years	1,814	2.4	0.07	358	2.1	0.14	330	2.2	0.16	1,025	›› 2.5	0.08
40-49 years	1,315	2.5	0.06	216	1.9	0.27	187	2.1	0.14	823	› 2.6	0.06
50-59 years	978	2.4	0.08	125	1.7	0.17	137	2.3	0.24	636	››› 2.4	0.09
60-69 years	1,097	2.1	0.06	152	1.5	0.14	218	1.6	0.18	614	››› 2.2	0.07
70-79 years	895	1.5	0.05	85	0.9 *	0.11	201	›› 1.5	0.15	515	››› 1.6	0.06
80 + years	596	1.3	0.05	57	1.0 *	0.12	163	› 1.4	0.07	289	› 1.3	0.06
Total, age adjusted	14,360	2.2	0.03	3,152	1.9	0.07	2,900	2.0	0.06	7,273	››› 2.2	0.04

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-14—Mean usual intake of food energy in kilocalories

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
1-3 years	3,309	1,370	7.3	1,113	1,408	18.2	675	1,403	24.6	1,315	›› 1,351	12.2
4-8 years	3,448	1,781	8.8	1,068	1,830	25.3	712	1,852	28.3	1,470	›› 1,755	14.4
9-13 years	2,457	2,160	20.0	663	2,126	28.3	538	2,065	40.2	1,113	2,200	27.5
14-18 years	1,938	2,438	30.1	485	2,435	63.3	431	2,328	66.2	871	2,452	38.3
19-30 years	4,103	2,494	17.2	756	2,384	46.3	962	2,451	54.4	2,078	›› 2,523	22.8
31-50 years	5,588	2,302	14.5	831	2,122	55.9	935	› 2,292	49.6	3,469	››› 2,327	17.0
51-70 years	4,019	1,915	14.1	453	1,693	69.3	687	1,714	38.1	2,533	››› 1,964	15.3
71 + years	2,623	1,618	10.8	239	1,418	40.9	571	1,426	16.0	1,525	››› 1,701	14.9
Total, age adjusted	27,485	2,128	6.5	5,608	1,999	23.5	5,511	2,057	20.0	14,374	››› 2,157	8.0
Males												
1-3 years	1,641	1,415	10.6	585	1,443	17.1	328	1,474	34.5	630	1,395	18.2
4-8 years	1,707	1,905	15.6	500	1,970	28.1	346	1,994	38.6	756	› 1,882	20.7
9-13 years	1,219	2,393	34.6	338	2,233	46.2	256	2,306	45.4	555	››› 2,473	46.7
14-18 years	909	2,910	50.1	217	2,604	102.0	203	2,732	92.2	403	››› 3,030	60.2
19-30 years	1,902	3,036	32.5	241	3,056	92.3	483	3,012	80.5	1,012	3,062	38.6
31-50 years	2,533	2,770	23.8	281	2,751	107.3	437	2,693	81.9	1,656	2,789	27.0
51-70 years	1,942	2,289	22.3	183	1,858	112.9	324	2,028	46.9	1,284	››› 2,349	25.6
71 + years	1,255	1,908	19.5	106	1,676	88.4	232	1,626	35.0	798	››› 1,990	24.8
Total, age adjusted	13,108	2,516	11.1	2,451	2,388	43.3	2,609	2,407	31.1	7,094	››› 2,556	13.0
Females												
1-3 years	1,668	1,321	11.9	528	1,366	37.0	347	1,339	27.9	685	1,306	15.6
4-8 years	1,741	1,646	9.8	568	1,710	28.4	366	1,704	28.1	714	››› 1,601	16.0
9-13 years	1,238	1,918	21.6	325	2,019	50.6	282	› 1,830	59.3	558	1,910	28.8
14-18 years	1,029	1,975	28.8	268	2,312	75.9	228	› 2,016	86.7	468	››› 1,866	28.2
19-30 years	2,201	1,979	17.7	515	2,095	38.9	479	››› 1,870	53.6	1,066	›› 1,968	26.3
31-50 years	3,055	1,862	12.5	550	1,745	40.7	498	›› 1,950	50.0	1,813	›› 1,870	12.4
51-70 years	2,077	1,585	11.9	270	1,615	77.0	363	1,458	46.7	1,249	1,596	11.0
71 + years	1,368	1,423	10.6	133	1,293	30.2	339	1,350	18.7	727	››› 1,464	14.5
Total, age adjusted	14,377	1,768	6.0	3,157	1,783	21.2	2,902	1,750	21.3	7,280	1,762	7.0

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-15—Mean usual intake of food energy as a percent of the 1989 Recommended Energy Allowance

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean percent of REA	Standard error	Sample size	Mean percent of REA	Standard error	Sample size	Mean percent of REA	Standard error	Sample size	Mean percent of REA	Standard error
Both sexes												
1-3 years	3,309	105.4	0.6	1,113	108.3	1.4	675	107.9	1.9	1,315	›› 103.9	0.9
4-8 years	3,448	94.8	0.5	1,068	97.6	1.3	712	98.6	1.5	1,470	›› 93.3	0.8
9-13 years	2,457	97.8	0.9	663	96.8	1.3	538	94.1	1.8	1,113	99.3	1.2
14-18 years	1,938	95.9	1.2	485	97.4	2.5	431	93.3	2.7	871	96.1	1.5
19-30 years	4,103	98.1	0.7	756	98.8	1.9	962	96.1	2.1	2,078	98.8	0.9
31-50 years	5,588	90.7	0.6	831	86.1	2.3	935	90.9	2.0	3,469	› 91.4	0.7
51-70 years	4,019	91.7	0.7	453	83.4	3.4	687	82.4	1.8	2,533	›› 93.7	0.7
71 + years	2,623	78.5	0.5	239	69.9	2.0	571	70.9	0.8	1,525	››› 81.8	0.7
Total, age adjusted	27,485	92.5	0.3	5,608	95.0	1.1	5,511	›› 90.6	0.9	14,374	92.8	0.3
Males												
1-3 years	1,641	108.8	0.8	585	111.0	1.3	328	113.4	2.7	630	107.3	1.4
4-8 years	1,707	101.2	0.8	500	104.9	1.5	346	106.1	2.1	756	›› 99.9	1.1
9-13 years	1,219	104.1	1.5	338	98.6	2.0	256	101.1	2.0	555	›› 107.2	2.0
14-18 years	909	100.7	1.7	217	90.0	3.5	203	95.2	3.2	403	››› 104.4	2.1
19-30 years	1,902	104.7	1.1	241	105.4	3.2	483	103.9	2.8	1,012	105.6	1.3
31-50 years	2,533	95.5	0.8	281	94.9	3.7	437	92.9	2.8	1,656	96.2	0.9
51-70 years	1,942	99.5	1.0	183	80.8	4.9	324	88.2	2.0	1,284	››› 102.1	1.1
71 + years	1,255	83.0	0.8	106	72.9	3.8	232	70.7	1.5	798	››› 86.5	1.1
Total, age adjusted	13,108	98.3	0.4	2,451	108.1	2.0	2,609	››› 94.8	1.2	7,094	››› 98.9	0.5
Females												
1-3 years	1,668	101.6	0.9	528	105.1	2.8	347	103.0	2.1	685	100.5	1.2
4-8 years	1,741	87.7	0.5	568	91.2	1.5	366	90.8	1.5	714	››› 85.2	0.9
9-13 years	1,238	90.6	1.0	325	95.0	2.4	282	› 86.7	2.8	558	90.3	1.4
14-18 years	1,029	89.8	1.3	268	105.1	3.4	228	› 91.7	3.9	468	››› 84.8	1.3
19-30 years	2,201	89.9	0.8	515	95.2	1.8	479	››› 85.0	2.4	1,066	›› 89.5	1.2
31-50 years	3,055	84.6	0.6	550	79.3	1.8	498	›› 88.6	2.3	1,813	›› 85.0	0.6
51-70 years	2,077	83.4	0.6	270	85.0	4.1	363	76.8	2.5	1,249	84.0	0.6
71 + years	1,368	74.9	0.6	133	68.1	1.6	339	71.1	1.0	727	››› 77.0	0.8
Total, age adjusted	14,377	85.9	0.3	3,157	87.7	1.0	2,902	85.6	1.0	7,280	› 85.3	0.3

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-16—Distribution of usual food energy intake in kilocalories

Male

	1989 REA[1] (kcal)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	1,300	930	1,025	1,092	1,193	1,389	1,606	1,738	1,834	1,990	12.20	11.60	11.30	11.20	11.40	12.50	14.30	16.50	21.60
4-8 years	1,882	1,326	1,436	1,513	1,633	1,876	2,147	2,304	2,414	2,584	14.40	14.80	15.20	15.60	16.10	17.90	19.60	21.10	23.80
9-13 years	2,298	1,573	1,720	1,825	1,987	2,318	2,709	2,958	3,148	3,467	22.70	23.00	23.00	23.20	25.90	45.40	71.90	91.20	118.00
14-18 years	2,891	1,740	1,954	2,107	2,347	2,833	3,381	3,710	3,951	4,340	40.90	41.90	42.80	44.20	48.70	58.70	66.70	72.80	83.50
19-30 years	2,900	1,850	2,058	2,208	2,448	2,948	3,522	3,867	4,119	4,523	24.40	25.50	26.50	28.40	32.20	39.20	46.30	52.30	62.40
31-50 years	2,900	1,720	1,914	2,051	2,262	2,691	3,188	3,493	3,719	4,089	16.60	16.50	16.90	17.90	21.10	30.10	38.40	45.70	60.00
51-70 years	2,300	1,364	1,536	1,658	1,845	2,222	2,653	2,918	3,115	3,440	16.30	16.70	17.10	18.00	20.90	27.50	34.10	40.60	55.00
71 + years	2,300	1,141	1,270	1,364	1,515	1,843	2,235	2,469	2,636	2,898	11.50	12.90	13.80	15.60	19.80	24.80	28.10	30.70	35.50
Persons currently receiving food stamps																			
1-3 years	1,300	917	1,027	1,101	1,211	1,423	1,656	1,791	1,887	2,033	22.60	18.70	17.10	16.00	16.80	20.50	23.20	25.30	29.80
4-8 years	1,882	1,426	1,527	1,599	1,711	1,939	2,197	2,348	2,454	2,618	20.20	21.00	21.70	23.10	28.40	36.50	40.40	42.80	46.50
9-13 years	2,298	1,657	1,766	1,843	1,962	2,204	2,476	2,630	2,738	2,903	40.10	41.20	41.90	42.80	45.60	52.50	58.70	64.30	75.50
14-18 years	2,891	1,560	1,746	1,879	2,087	2,520	3,027	3,338	3,566	3,935	85.00	85.60	85.80	87.10	96.20	118.00	136.00	151.00	179.00
19-30 years	2,900	1,852	2,071	2,229	2,476	2,981	3,544	3,879	4,123	4,517	79.20	81.40	84.10	90.60	96.70	101.00	112.00	131.00	187.00
31-50 years	2,900	1,548	1,723	1,863	2,100	2,631	3,274	3,671	3,957	4,396	43.30	54.20	64.70	81.40	107.00	139.00	166.00	187.00	210.00
51-70 years	2,300	952	1,106	1,221	1,409	1,810	2,259	2,509	2,679	2,927	74.80	84.70	92.00	103.00	121.00	138.00	144.00	146.00	146.00
71 + years	2,300	929	1,049	1,138	1,283	1,598	1,984	2,225	2,403	2,691	48.30	47.10	49.00	57.00	86.70	132.00	154.00	164.00	176.00
Income-eligible, food stamp nonparticipants																			
1-3 years	1,300	952	1,050	1,120	1,226	1,440	1,683	1,831	1,938	2,111	24.50	24.60	25.30	26.70	32.40	45.30	53.40	59.10	69.10
4-8 years	1,882	1,382	1,493	1,572	1,698	1,958	2,253	2,425	2,547	2,733	23.00	22.30	23.20	26.40	36.60	52.00	61.90	69.00	79.50
9-13 years	2,298	1,518	1,679	1,789	1,956	2,282	2,629	2,826	2,964	3,176	53.80	47.90	44.70	41.90	43.30	56.80	67.50	74.80	84.20
14-18 years	2,891	1,599	1,792	1,933	2,158	2,626	3,172	3,515	3,777	4,223	63.80	71.10	74.80	79.00	87.90	108.00	127.00	145.00	182.00
19-30 years	2,900	1,728	1,950	2,109	2,358	2,883	3,519	3,924	4,229	4,736	56.90	59.90	62.00	65.80	75.10	98.80	119.00	135.00	163.00
31-50 years	2,900	1,547	1,745	1,883	2,102	2,592	3,170	3,509	3,763	4,187	63.10	52.00	48.20	48.90	69.50	106.00	136.00	163.00	212.00
51-70 years	2,300	1,107	1,273	1,397	1,589	1,975	2,427	2,680	2,847	3,092	30.70	34.30	35.90	37.50	49.00	64.90	69.10	71.90	83.50
71 + years	2,300	943	1,055	1,139	1,278	1,580	1,926	2,124	2,261	2,466	23.00	23.90	25.10	28.80	40.10	48.50	49.50	49.30	48.90
Higher-income, food stamp nonparticipants																			
1-3 years	1,300	932	1,017	1,077	1,171	1,363	1,583	1,717	1,814	1,970	15.40	16.10	16.60	17.50	19.40	22.10	24.90	28.10	35.80
4-8 years	1,882	›››1,296	›››1,407	›› 1,485	›› 1,608	1,856	2,127	2,282	2,390	2,556	19.70	19.90	20.40	21.40	22.30	23.00	24.50	26.00	29.30
9-13 years	2,298	1,591	1,741	1,849	2,018	› 2,378	›››2,819	›››3,103	›››3,319	›››3,679	29.00	29.20	29.40	29.70	34.10	58.90	83.70	105.00	147.00
14-18 years	2,891	1,804	› 2,023	› 2,180	›› 2,429	›› 2,947	›› 3,540	›› 3,891	›› 4,143	› 4,538	47.70	50.30	52.00	54.60	59.70	69.10	78.70	87.90	107.00
19-30 years	2,900	1,916	2,120	2,268	2,501	2,986	3,540	3,867	4,101	4,469	30.50	31.80	32.70	34.20	38.10	46.50	53.60	59.70	71.10
31-50 years	2,900	›››1,775	›››1,965	›› 2,097	2,301	2,715	3,192	3,485	3,701	4,053	17.60	18.20	18.70	19.80	23.90	32.50	40.80	48.90	66.60
51-70 years	2,300	›››1,453	›››1,619	›››1,735	›››1,913	›› 2,276	› 2,701	› 2,967	› 3,166	›› 3,495	17.80	17.30	17.60	18.90	23.40	30.60	37.80	45.60	63.30
71 + years	2,300	›››1,226	›››1,355	›››1,448	›››1,598	›› 1,925	2,316	2,550	2,717	2,976	16.70	18.10	19.30	21.50	26.30	31.00	34.30	36.90	41.70

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

[1] The 1989 Recommended Energy Allowance (REA) is specified for age groups that differ from those used in this analysis. Number shown in this column, as a point of reference, is a weighted average REA for the group. New recommendations for energy intake have recently been established (IOM, 2002b) but are not shown here, see appendix B.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-16—Distribution of usual food energy intake in kilocalories — Continued

Female

	1989 REA[1] (kcal)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	1,300	850	937	1,000	1,098	1,295	1,510	1,638	1,733	1,887	9.14	9.06	9.11	9.30	10.60	14.60	18.60	22.10	29.40
4-8 years	1,877	1,165	1,257	1,322	1,423	1,625	1,846	1,973	2,062	2,200	13.20	12.20	11.60	10.80	9.98	11.00	12.50	14.20	18.40
9-13 years	2,117	1,273	1,395	1,482	1,615	1,878	2,179	2,363	2,496	2,703	19.00	19.00	19.20	19.70	21.40	25.10	27.80	29.90	33.30
14-18 years	2,200	1,264	1,391	1,482	1,625	1,925	2,272	2,479	2,627	2,858	18.80	18.50	19.10	21.20	27.70	36.20	41.60	45.60	52.30
19-30 years	2,200	1,266	1,399	1,493	1,639	1,937	2,272	2,469	2,611	2,834	15.50	14.90	14.60	14.50	16.60	21.40	24.80	27.70	33.30
31-50 years	2,200	1,154	1,288	1,382	1,527	1,820	2,149	2,346	2,488	2,714	12.10	11.00	10.40	10.20	12.20	15.90	18.50	20.60	24.30
51-70 years	1,900	973	1,089	1,170	1,295	1,545	1,828	2,000	2,127	2,334	9.22	8.97	9.06	9.55	11.40	14.50	17.30	19.90	25.20
71 + years	1,900	878	981	1,055	1,168	1,397	1,650	1,795	1,897	2,054	10.90	10.10	9.73	9.40	10.30	13.60	15.60	17.00	20.00
Persons currently receiving food stamps																			
1-3 years	1,300	813	909	980	1,092	1,325	1,587	1,748	1,870	2,073	19.60	20.00	21.10	23.80	33.10	48.30	61.00	72.30	92.80
4-8 years	1,877	1,096	1,214	1,298	1,426	1,676	1,952	2,121	2,246	2,447	30.10	28.80	27.80	25.80	25.80	33.20	39.50	44.60	54.70
9-13 years	2,117	1,162	1,315	1,428	1,606	1,976	2,387	2,620	2,782	3,025	43.80	45.00	44.70	44.10	51.40	66.60	71.70	74.00	77.20
14-18 years	2,200	1,300	1,477	1,606	1,810	2,233	2,727	3,029	3,249	3,596	48.40	50.60	52.50	57.30	74.30	100.00	115.00	126.00	144.00
19-30 years	2,200	1,134	1,304	1,426	1,619	2,014	2,472	2,760	2,980	3,346	33.30	29.00	28.20	28.50	35.20	50.60	64.50	77.20	101.00
31-50 years	2,200	981	1,121	1,217	1,366	1,669	2,036	2,274	2,457	2,766	34.70	33.20	32.30	32.00	36.70	50.50	61.90	71.20	87.80
51-70 years	1,900	791	914	1,005	1,152	1,479	1,916	2,222	2,466	2,897	28.70	33.00	36.60	43.60	66.00	107.00	137.00	160.00	199.00
71 + years	1,900	750	847	917	1,028	1,258	1,520	1,675	1,786	1,959	24.40	25.70	27.10	29.90	36.20	42.20	44.70	45.90	48.40
Income-eligible, food stamp nonparticipants																			
1-3 years	1,300	805	895	964	1,078	1,316	1,570	1,710	1,807	1,954	22.30	24.50	26.90	30.30	32.30	32.00	33.50	35.60	40.70
4-8 years	1,877	›››1,348	›››1,416	›››1,464	› 1,540	1,692	1,854	›› 1,946	›››2,008	›››2,102	22.50	23.00	23.80	25.20	28.60	32.50	34.70	36.30	38.70
9-13 years	2,117	›››1,424	› 1,508	1,565	1,651	1,817	›››1,995	›››2,096	›››2,168	›››2,280	42.50	45.30	47.20	50.30	57.60	67.70	74.00	78.50	85.50
14-18 years	2,200	› 1,519	1,613	1,679	1,781	1,988	›› 2,223	›››2,360	›››2,458	›››2,610	61.70	65.50	68.50	74.10	86.70	100.00	108.00	113.00	121.00
19-30 years	2,200	1,123	1,262	1,361	1,513	› 1,822	›› 2,173	›› 2,384	›››2,537	›››2,781	36.10	37.10	39.00	43.50	54.00	66.80	75.90	83.30	96.50
31-50 years	2,200	›› 1,152	›› 1,293	›› 1,395	›› 1,553	›› 1,885	› 2,278	2,517	2,692	2,968	33.40	34.00	34.80	37.90	49.20	62.50	71.40	79.50	96.30
51-70 years	1,900	844	954	1,034	1,163	1,433	1,721	1,878	1,990	›› 2,165	33.70	36.60	38.70	41.70	46.60	53.80	60.80	67.70	81.20
71 + years	1,900	› 844	› 935	998	1,098	1,310	1,559	1,709	1,818	1,993	18.20	15.80	14.90	14.50	16.90	23.90	30.10	35.60	46.40
Higher-income, food stamp nonparticipants																			
1-3 years	1,300	› 889	970	1,027	1,114	1,285	1,475	1,587	1,667	› 1,793	14.00	13.80	13.60	13.60	15.00	17.70	20.00	22.30	27.10
4-8 years	1,877	1,151	1,239	1,301	1,395	› 1,584	›››1,787	›››1,903	›››1,984	›››2,109	17.50	16.90	16.70	16.60	16.70	17.10	17.60	18.20	19.90
9-13 years	2,117	1,287	1,406	1,489	1,617	1,869	› 2,159	›› 2,339	›› 2,469	›› 2,673	25.20	24.80	25.00	25.70	28.00	33.40	38.10	41.90	48.40
14-18 years	2,200	1,199	› 1,323	›› 1,410	›››1,547	›››1,830	›››2,148	›››2,331	›››2,459	›››2,654	23.30	21.30	21.10	22.40	28.60	36.70	41.10	44.00	48.50
19-30 years	2,200	›››1,311	›› 1,437	1,525	1,660	1,934	›››2,239	›››2,418	›››2,545	›››2,743	25.10	24.20	23.70	23.50	25.40	29.70	32.90	35.70	41.80
31-50 years	2,200	›››1,186	›››1,318	›››1,410	›››1,552	›››1,835	2,150	2,335	2,467	2,675	12.80	11.60	11.00	10.70	12.20	16.10	19.10	21.60	26.10
51-70 years	1,900	›››1,011	›››1,123	›››1,201	›› 1,321	1,560	1,831	1,993	2,111	› 2,301	9.04	8.14	7.95	8.14	10.00	14.70	18.80	22.40	29.10
71 + years	1,900	›››921	›››1,026	›››1,100	›››1,214	›››1,439	›› 1,687	› 1,831	› 1,934	2,092	13.40	13.70	13.80	13.80	14.00	16.20	18.30	19.90	22.70

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

[1] The 1989 Recommended Energy Allowance (REA) is specified for age groups that differ from those used in this analysis. Number shown in this column, as a point of reference, is a weighted average REA for the group. New recommendations for energy intake have recently been established (IOM, 2002b) but are not shown here, see appendix B.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-16—Distribution of usual food energy intake in kilocalories — Continued

Both sexes

	1989 REA[1] (kcal)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	na	885	976	1,041	1,141	1,342	1,564	1,696	1,793	1,950	6.16	6.14	6.43	6.54	6.68	9.40	12.20	14.90	20.30
4-8 years	na	1,234	1,338	1,411	1,524	1,753	2,008	2,157	2,263	2,427	8.71	8.51	8.58	8.90	9.90	10.80	11.60	12.40	14.00
9-13 years	na	1,377	1,517	1,616	1,769	2,086	2,467	2,706	2,885	3,183	13.50	14.20	14.60	15.20	16.80	21.30	32.10	46.30	73.00
14-18 years	na	1,319	1,502	1,637	1,855	2,335	2,908	3,254	3,505	3,907	14.30	16.10	18.10	22.40	30.10	38.50	45.10	50.50	60.70
19-30 years	na	1,348	1,539	1,678	1,901	2,383	2,966	3,325	3,589	4,016	12.70	12.50	12.80	13.50	16.40	21.80	27.30	32.80	43.00
31-50 years	na	1,249	1,432	1,563	1,770	2,207	2,726	3,048	3,287	3,679	10.00	8.93	8.76	9.36	12.80	18.50	25.20	31.30	42.70
51-70 years	na	1,040	1,194	1,303	1,475	1,835	2,263	2,532	2,733	3,064	8.42	8.70	9.12	10.10	13.00	18.00	22.10	26.20	35.80
71 + years	na	924	1,047	1,134	1,270	1,556	1,901	2,115	2,273	2,526	9.13	8.78	8.81	9.12	10.70	13.90	16.60	18.80	22.60
Persons currently receiving food stamps																			
1-3 years	na	865	973	1,046	1,158	1,378	1,624	1,773	1,881	2,056	14.70	13.70	13.40	13.40	15.70	22.90	29.10	34.40	44.00
4-8 years	na	1,249	1,361	1,439	1,559	1,796	2,065	2,227	2,345	2,529	20.90	20.60	20.20	19.80	23.20	31.70	36.40	39.10	42.20
9-13 years	na	1,326	1,478	1,585	1,748	2,082	2,462	2,681	2,832	3,060	27.20	26.50	25.90	25.60	28.90	35.50	39.20	43.20	54.00
14-18 years	na	1,340	1,527	1,663	1,879	2,337	2,882	3,218	3,466	3,866	49.50	50.70	51.80	53.90	62.10	80.70	94.00	104.00	122.00
19-30 years	na	1,224	1,418	1,561	1,786	2,259	2,841	3,219	3,504	3,966	34.60	35.40	36.50	37.90	47.00	61.10	67.40	73.20	90.00
31-50 years	na	1,064	1,231	1,350	1,539	1,967	2,550	2,941	3,237	3,719	30.10	27.20	26.80	29.60	50.10	81.20	96.70	112.00	143.00
51-70 years	na	825	957	1,056	1,219	1,585	2,048	2,344	2,566	2,931	27.80	34.10	38.70	46.30	65.90	94.80	113.00	125.00	146.00
71 + years	na	798	901	977	1,099	1,361	1,675	1,868	2,008	2,234	22.20	22.20	23.00	26.80	39.00	55.80	69.00	79.30	95.20
Income-eligible, food stamp nonparticipants																			
1-3 years	na	871	968	1,038	1,150	1,375	1,622	1,765	1,868	2,032	19.90	21.00	22.00	23.40	25.60	28.70	32.10	35.40	42.40
4-8 years	na	› 1,331	1,427	1,497	1,607	1,829	2,069	2,209	2,307	2,460	18.80	19.00	19.70	21.60	27.00	34.80	40.40	45.20	52.80
9-13 years	na	1,366	1,504	1,600	1,747	2,036	2,352	2,536	2,666	2,865	30.60	30.90	31.70	33.60	39.70	49.30	55.50	59.90	65.70
14-18 years	na	1,372	1,524	1,638	1,823	2,229	2,725	3,033	3,259	3,622	39.70	42.80	45.80	51.60	66.20	84.80	95.20	103.00	117.00
19-30 years	na	1,220	1,422	1,571	1,811	2,327	2,949	3,340	3,633	4,115	37.00	37.40	39.40	43.60	51.90	67.10	80.70	91.40	111.00
31-50 years	na	› 1,205	›› 1,388	››› 1,518	››› 1,724	› 2,177	2,732	3,077	3,335	3,766	35.60	33.60	33.20	34.80	43.30	61.50	82.90	102.00	139.00
51-70 years	na	871	1,014	1,120	1,295	1,662	2,065	2,308	2,486	2,765	28.20	29.80	31.00	32.80	34.80	45.10	55.50	62.20	72.00
71 + years	na	824	929	1,002	1,118	1,371	1,679	1,866	2,001	2,215	16.90	13.30	11.80	11.30	14.80	23.30	28.90	33.20	40.80
Higher-income, food stamp nonparticipants																			
1-3 years	na	906	990	1,049	1,141	1,324	›› 1,530	›› 1,653	›› 1,743	›› 1,888	10.00	10.30	10.50	10.80	11.90	14.70	17.30	19.80	25.00
4-8 years	na	1,210	1,314	1,387	1,501	1,730	1,982	2,127	2,230	› 2,388	12.60	12.80	13.40	14.50	16.10	16.30	16.60	17.30	19.30
9-13 years	na	1,391	1,529	1,629	1,785	2,111	2,508	2,768	2,969	3,308	18.00	17.90	18.00	18.60	21.00	31.70	47.20	61.90	90.90
14-18 years	na	1,282	1,469	1,606	1,830	2,335	2,948	3,317	3,585	4,013	18.80	20.00	23.00	29.70	39.50	48.80	58.00	66.30	82.00
19-30 years	na	››› 1,402	››› 1,588	›› 1,723	›› 1,942	› 2,418	2,993	3,343	3,598	4,003	21.50	21.10	21.10	21.30	22.30	26.30	32.30	38.10	49.40
31-50 years	na	››› 1,286	››› 1,469	››› 1,601	››› 1,807	››› 2,238	2,744	3,057	3,290	3,671	10.80	10.10	10.10	10.80	14.60	21.60	27.60	33.20	45.60
51-70 years	na	››› 1,093	››› 1,246	››› 1,356	››› 1,526	››› 1,883	2,308	2,576	2,778	3,111	8.65	8.17	8.42	9.56	13.90	20.70	25.70	30.40	41.80
71 + years	na	››› 990	››› 1,113	››› 1,202	››› 1,342	››› 1,638	››› 1,993	››› 2,212	››› 2,371	››› 2,625	12.80	12.60	12.60	13.00	14.90	18.50	21.60	24.30	29.10

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

[1] The 1989 Recommended Energy Allowance (REA) is specified for age groups that differ from those used in this analysis. Number shown in this column, as a point of reference, is a weighted average REA for the group. New recommendations for energy intake have recently been established (IOM, 2002b) but are not shown here, see appendix B.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-17—Mean usual intake of Vitamin C in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
1-3 years	3,309	92	1.1	1,113	94	2.2	675	92	2.8	1,315	91	1.6
4-8 years	3,448	102	1.6	1,068	109	2.7	712	› 99	3.1	1,470	102	2.2
9-13 years	2,457	105	1.6	663	113	4.7	538	103	3.4	1,113	104	2.2
14-18 years	1,938	112	3.6	485	121	8.6	431	125	9.3	871	108	4.3
19-30 years	4,103	107	2.1	–	–	–	962	110	3.7	2,078	107	2.6
31-50 years	5,588	102	1.2	831	94	4.5	935	94	3.6	3,469	› 104	1.6
51-70 years	4,019	109	2.2	453	81	4.8	687	› 92	2.9	2,533	››› 114	2.6
71 + years	2,623	106	1.4	239	102	9.5	571	95	3.0	1,525	110	1.7
Total, age adjusted	27,485	105	0.7	5,608	104	3.7	5,511	100	1.6	14,374	106	0.9
Males												
1-3 years	1,641	92	1.9	585	99	3.4	328	95	4.3	630	›› 89	2.4
4-8 years	1,707	106	2.0	500	116	3.1	346	› 103	4.8	756	› 105	3.0
9-13 years	1,219	109	2.6	338	108	7.2	256	114	5.4	555	109	3.2
14-18 years	909	129	4.4	217	128	13.6	203	129	8.2	403	131	5.2
19-30 years	1,902	122	3.4	241	160	45.7	483	115	4.8	1,012	123	4.0
31-50 years	2,533	112	2.1	281	112	8.8	437	103	6.0	1,656	114	2.7
51-70 years	1,942	116	3.0	183	83	8.3	324	84	4.4	1,284	››› 122	3.5
71 + years	1,255	107	2.7	106	138	28.7	232	83	5.2	798	111	3.0
Total, age adjusted	13,108	114	1.1	2,451	118	8.6	2,609	102	2.4	7,094	116	1.4
Females												
1-3 years	1,668	91	1.3	528	87	2.6	347	89	3.6	685	93	2.2
4-8 years	1,741	98	2.0	568	102	3.9	366	96	3.6	714	98	2.5
9-13 years	1,238	101	2.7	325	118	10.2	282	› 92	4.3	558	100	2.9
14-18 years	1,029	96	4.1	268	116	8.0	228	122	15.3	468	››› 86	4.4
19-30 years	2,201	94	1.9	–	–	–	479	105	5.5	1,066	89	2.3
31-50 years	3,055	92	1.6	550	83	3.9	498	86	4.6	1,813	› 94	1.7
51-70 years	2,077	103	2.5	270	80	4.6	363	›› 99	3.8	1,249	››› 106	3.0
71 + years	1,368	105	1.8	133	87	3.5	339	› 100	4.2	727	››› 110	2.2
Total, age adjusted	14,377	97	0.9	3,157	95	2.3	2,902	97	2.2	7,280	97	1.0

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-18—Percent of persons with adequate usual intake of Vitamin C[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
1-3 years	3,309	100.0	0.02	1,113	99.8	0.05	675	›››100.0	0.00	1,315	›››100.0	0.01
4-8 years	3,448	99.8	0.03	1,068	99.9	0.05	712	100.0	0.05	1,470	99.8	0.03
9-13 years	2,457	97.0	0.34	663	96.2	0.59	538	97.9	0.73	1,113	96.8	0.44
14-18 years	1,938	81.3	1.32	485	85.2	1.67	431	88.6	2.05	871	› 78.7	1.92
19-30 years	4,103	74.7	0.96	–	–	–	962	78.9	2.11	2,078	74.7	1.38
31-50 years	5,588	69.9	0.87	831	67.5	2.81	935	62.8	2.43	3,469	71.0	0.95
51-70 years	4,019	71.0	0.85	453	58.8	3.44	687	62.8	2.01	2,533	›››72.8	0.95
71 + years	2,623	73.7	0.74	239	69.0	3.31	571	68.4	1.85	1,525	75.3	0.93
Total, age adjusted	27,485	77.4	0.37	5,608	75.0	1.14	5,511	74.6	0.93	14,374	› 78.0	0.44
Male												
1-3 years	1,641	99.9	0.03	585	100.0	0.04	328	99.9	0.05	630	100.0	0.03
4-8 years	1,707	99.9	0.03	500	100.0	0.00	346	100.0	0.00	756	›››99.8	0.06
9-13 years	1,219	99.0	0.18	338	99.4	0.30	256	100.0	0.05	555	›››97.8	0.31
14-18 years	909	83.8	1.56	217	96.7	1.68	203	›››82.3	2.09	403	›››83.5	1.77
19-30 years	1,902	72.8	1.56	241	96.7	2.61	483	›››74.5	2.94	1,012	›››74.2	1.96
31-50 years	2,533	69.0	1.33	281	65.3	4.17	437	59.0	3.98	1,656	71.0	1.51
51-70 years	1,942	65.6	1.35	183	48.1	7.76	324	46.7	3.02	1,284	›› 69.1	1.46
71 + years	1,255	62.8	1.34	106	57.9	7.60	232	47.0	2.94	798	66.5	1.65
Total, age adjusted	13,108	75.3	0.57	2,451	75.5	2.06	2,609	›› 67.7	1.46	7,094	77.0	0.65
Female												
1-3 years	1,668	100.0	0.02	528	99.4	0.19	347	›››100.0	0.00	685	›››100.0	0.00
4-8 years	1,741	99.8	0.03	568	99.0	0.28	366	› 99.8	0.14	714	›››100.0	0.03
9-13 years	1,238	95.1	0.67	325	93.1	1.14	282	95.9	1.44	558	95.6	0.83
14-18 years	1,029	78.9	2.12	268	76.5	2.65	228	›››93.5	3.27	468	73.9	3.41
19-30 years	2,201	76.5	1.15	–	–	–	479	83.3	3.02	1,066	75.1	1.93
31-50 years	3,055	70.6	1.12	550	68.8	3.74	498	65.9	2.95	1,813	70.9	1.17
51-70 years	2,077	75.8	1.06	270	64.0	3.46	363	›› 76.2	2.69	1,249	›››76.4	1.22
71 + years	1,368	81.1	0.85	133	74.4	3.25	339	76.7	2.30	727	› 82.5	1.03
Total, age adjusted	14,377	79.2	0.47	3,157	74.6	1.30	2,902	›› 79.6	1.19	7,280	›› 79.0	0.59

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Estimated Average Requirements (EARs) were used to assess the adequacy of intake in groups, using the EAR cut-point method described in IOM, *Dietary Reference Intakes: Applications in Dietary Assessment,* Chapter 4. EARs are defined separately for gender and age groups as listed in appendix B.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-19—Distribution of usual Vitamin C intake in milligrams

Male

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	13	35	43	49	60	84	116	137	152	178	0.88	0.99	1.09	1.28	1.75	2.46	2.97	3.37	4.09
4-8 years	22	47	56	63	74	99	130	149	164	187	1.18	1.34	1.46	1.65	2.02	2.41	2.74	3.08	3.84
9-13 years	39	53	62	69	80	104	133	151	164	186	1.50	1.67	1.80	2.02	2.52	3.21	3.69	4.05	4.65
14-18 years	63	40	52	61	77	114	165	199	224	267	1.89	2.25	2.50	2.90	3.98	5.71	7.03	8.13	10.20
19-30 years	75	39	50	58	72	107	156	189	214	257	1.25	1.51	1.73	2.10	2.90	4.18	5.44	6.69	9.38
31-50 years	75	36	46	54	67	100	144	173	195	232	0.96	1.13	1.29	1.57	2.21	2.78	3.17	3.54	4.31
51-70 years	75	29	39	48	62	98	150	186	215	264	0.82	1.00	1.19	1.57	2.34	4.05	5.41	6.64	8.51
71 + years	75	25	35	44	58	93	141	173	197	236	0.94	1.15	1.30	1.57	2.26	3.59	4.75	5.75	7.71
Persons currently receiving food stamps																			
1-3 years	13	38	47	54	66	92	124	145	161	187	1.71	1.89	2.02	2.27	3.06	4.41	5.35	6.18	7.77
4-8 years	22	64	73	79	90	112	137	153	163	180	2.27	2.50	2.68	2.96	3.36	3.58	3.73	3.85	4.05
9-13 years	39	56	65	71	82	104	130	145	157	174	4.88	5.37	5.71	6.21	7.25	8.32	8.90	9.29	9.86
14-18 years	63	68	77	84	96	122	154	173	188	212	5.73	7.02	8.05	9.82	13.40	17.00	19.20	20.80	23.70
19-30 years	75	81	92	101	116	149	192	220	241	277	13.80	19.10	23.50	30.90	45.30	58.90	67.10	73.60	85.30
31-50 years	75	31	40	48	62	97	144	176	201	244	3.34	3.90	4.42	5.25	7.41	12.10	15.60	18.50	23.70
51-70 years	75	27	34	40	49	73	107	130	147	174	3.25	3.68	4.17	5.29	8.55	11.50	12.70	13.20	13.80
71 + years	75	23	31	38	51	89	159	224	284	409	2.59	3.45	4.12	5.63	16.20	38.10	58.30	76.50	111.00
Income-eligible, food stamp nonparticipants																			
1-3 years	13	34	42	49	60	88	123	144	160	183	1.88	2.31	2.68	3.29	4.49	5.70	6.31	6.70	7.22
4-8 years	22	56	64	70	79	99	123	137	148	164	3.35	3.58	3.74	4.00	4.66	5.60	6.30	6.89	7.98
9-13 years	39	68	76	82	91	110	133	147	158	174	2.85	3.10	3.33	3.86	5.50	6.97	7.68	8.18	9.07
14-18 years	63	›››39	›› 50	› 59	74	114	167	202	228	272	3.45	3.40	3.45	4.03	6.94	11.60	14.90	17.70	23.10
19-30 years	75	44	54	62	74	104	144	170	190	224	2.44	2.75	3.05	3.59	4.72	6.17	7.15	7.90	9.07
31-50 years	75	29	37	44	56	87	133	164	188	229	1.78	2.37	2.88	3.83	5.97	8.33	9.85	11.00	13.00
51-70 years	75	› 17	25	31	42	71	111	139	160	197	1.50	2.02	2.35	2.80	3.87	5.69	7.23	8.63	11.40
71 + years	75	17	25	31	43	71	111	138	158	191	1.51	1.74	1.89	2.19	3.61	6.88	9.67	12.30	17.50
Higher-income, food stamp nonparticipants																			
1-3 years	13	34	42	› 47	›› 57	› 81	111	131	146	171	1.08	1.20	1.31	1.51	2.06	3.01	3.81	4.55	6.05
4-8 years	22	›››43	›››52	›››58	›››70	› 97	131	154	170	197	1.59	1.84	2.06	2.44	3.23	3.86	4.24	4.63	5.60
9-13 years	39	47	56	63	75	101	134	155	171	197	1.43	1.67	1.86	2.19	2.99	4.15	4.95	5.60	6.79
14-18 years	63	›››39	›› 51	› 60	77	116	169	204	231	273	2.25	2.66	2.98	3.50	4.86	6.87	8.36	9.71	12.50
19-30 years	75	› 40	51	59	74	110	158	190	214	254	1.73	2.08	2.35	2.80	3.88	5.27	6.06	6.70	8.03
31-50 years	75	37	47	56	70	103	146	174	195	230	1.24	1.44	1.59	1.87	2.56	3.51	4.19	4.76	5.90
51-70 years	75	32	43	52	› 67	›› 103	›››156	›››193	›››222	›››273	0.92	1.15	1.37	1.78	2.77	4.46	5.99	7.37	9.99
71 + years	75	29	39	48	63	99	145	176	198	235	1.38	1.63	1.82	2.12	2.78	3.84	4.89	5.89	7.91

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-19—Distribution of usual Vitamin C intake in milligrams — Continued

Female

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	13	35	43	49	60	83	113	133	149	174	0.74	0.82	0.89	1.02	1.28	1.68	2.06	2.42	3.20
4-8 years	22	44	53	59	70	93	120	137	150	170	1.03	1.13	1.20	1.34	1.76	2.53	3.14	3.64	4.54
9-13 years	39	39	48	56	67	94	127	148	164	190	1.50	1.69	1.83	2.05	2.46	3.15	3.86	4.56	6.03
14-18 years	56	35	43	49	60	86	121	144	162	191	1.50	1.78	2.01	2.44	3.67	5.48	6.74	7.74	9.57
19-30 years	60	37	45	51	61	86	117	138	153	178	0.76	0.88	0.99	1.18	1.74	2.70	3.26	3.61	4.08
31-50 years	60	29	38	44	55	82	118	142	160	191	0.74	0.86	0.96	1.11	1.44	2.06	2.69	3.25	4.18
51-70 years	60	31	40	48	61	92	132	159	179	215	0.83	0.98	1.10	1.33	1.86	2.79	3.84	4.96	7.58
71 + years	60	37	47	55	68	97	134	158	175	202	0.87	0.98	1.07	1.22	1.62	2.31	2.83	3.25	4.03
Persons currently receiving food stamps																			
1-3 years	13	26	34	40	51	77	112	134	152	180	1.55	1.58	1.60	1.67	2.22	3.44	4.45	5.44	7.73
4-8 years	22	36	46	53	65	93	130	154	171	199	2.22	2.42	2.60	2.95	3.88	4.80	5.45	6.18	8.20
9-13 years	39	35	45	53	67	102	150	184	211	258	2.09	2.57	3.07	4.11	8.37	14.20	18.60	22.40	29.70
14-18 years	56	27	37	44	58	94	147	186	217	275	1.72	2.21	2.72	3.63	5.21	9.11	14.50	20.40	33.70
19-30 years	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
31-50 years	60	32	40	45	55	77	105	123	136	158	2.05	2.43	2.71	3.15	4.02	4.91	5.34	5.60	5.92
51-70 years	60	26	34	40	50	73	103	122	136	158	2.19	2.40	2.55	2.85	4.00	5.89	7.14	8.12	9.96
71 + years	60	34	43	49	59	82	109	125	136	154	2.44	2.66	2.81	3.07	3.68	4.35	4.69	4.93	5.37
Income-eligible, food stamp nonparticipants																			
1-3 years	13	›››39	›››46	›››52	›› 62	83	110	127	140	161	1.74	2.00	2.19	2.52	3.37	4.62	5.48	6.19	7.50
4-8 years	22	43	51	58	68	90	118	134	› 147	› 168	2.86	2.96	3.02	3.15	3.44	4.06	4.77	5.48	6.97
9-13 years	39	41	49	55	65	87	113	› 129	› 140	›› 158	3.31	3.46	3.54	3.69	4.10	4.82	5.35	5.78	6.57
14-18 years	56	›› 52	› 63	71	84	114	152	176	193	222	7.27	8.65	9.67	11.40	15.00	19.10	21.50	23.00	25.30
19-30 years	60	41	51	58	70	97	131	153	169	195	2.55	3.08	3.44	4.01	5.37	7.02	8.05	8.92	10.50
31-50 years	60	26	34	40	51	76	111	133	150	179	1.64	1.95	2.20	2.62	3.75	5.90	7.74	9.39	12.70
51-70 years	60	32	42	49	61	› 91	›› 128	› 151	› 167	193	2.12	2.52	2.81	3.25	3.94	4.73	5.54	6.45	8.56
71 + years	60	33	42	50	62	91	128	›› 152	›› 170	›››199	1.72	2.03	2.29	2.74	3.85	5.43	6.65	7.70	9.69
Higher-income, food stamp nonparticipants																			
1-3 years	13	›››37	›››45	›››51	›››61	85	115	136	151	177	1.04	1.17	1.27	1.44	1.90	2.77	3.54	4.26	5.82
4-8 years	22	›››48	›› 56	›› 63	73	94	119	› 135	›› 146	›› 164	1.28	1.41	1.51	1.69	2.20	3.09	3.80	4.40	5.49
9-13 years	39	41	50	57	68	94	124	143	157	178	2.04	2.25	2.38	2.57	2.93	3.41	3.76	4.06	4.64
14-18 years	56	32	39	45	55	78	›› 108	›› 128	›› 142	› 165	2.07	2.44	2.71	3.16	4.22	5.51	6.32	6.94	8.07
19-30 years	60	37	44	50	60	82	111	129	142	164	1.22	1.40	1.55	1.80	2.34	2.92	3.27	3.53	3.98
31-50 years	60	29	38	44	56	83	› 121	›› 145	›››164	›››195	0.83	0.96	1.05	1.20	1.51	2.05	2.57	3.06	4.12
51-70 years	60	31	41	› 49	›› 62	›››93	›››135	›››162	›››184	›››221	1.04	1.19	1.33	1.57	2.16	3.21	4.49	5.92	9.35
71 + years	60	37	48	56	› 70	›››102	›››141	›››165	›››183	›››211	1.19	1.34	1.46	1.65	2.10	2.81	3.45	4.04	5.21

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.
na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-19—Distribution of usual Vitamin C intake in milligrams — Continued

Both sexes

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	na	35	43	49	60	84	115	135	151	176	0.60	0.67	0.73	0.83	1.06	1.40	1.67	1.93	2.53
4-8 years	na	46	54	61	72	96	126	144	158	180	0.88	0.97	1.04	1.18	1.55	2.07	2.45	2.79	3.51
9-13 years	na	44	53	61	72	98	131	151	166	191	0.99	1.12	1.22	1.39	1.68	1.97	2.32	2.70	3.49
14-18 years	na	36	46	53	67	99	143	173	195	233	1.40	1.69	1.92	2.34	3.30	4.65	5.66	6.48	7.82
19-30 years	na	37	46	53	66	96	136	163	184	218	0.83	0.96	1.07	1.27	1.75	2.69	3.50	4.24	5.75
31-50 years	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
51-70 years	na	30	40	47	61	94	140	172	196	239	0.59	0.76	0.90	1.16	1.68	2.58	3.47	4.36	6.28
71 + years	na	30	40	49	63	95	137	165	185	219	0.46	0.57	0.66	0.82	1.18	1.86	2.42	2.91	3.93
Persons currently receiving food stamps																			
1-3 years	na	32	41	48	59	85	119	141	158	187	1.20	1.29	1.35	1.46	1.81	2.71	3.59	4.41	6.04
4-8 years	na	48	57	65	76	103	134	154	168	190	1.86	2.02	2.14	2.36	2.81	3.06	3.24	3.53	4.53
9-13 years	na	41	50	58	71	102	143	170	190	224	2.28	2.56	2.78	3.10	4.23	6.69	8.22	9.54	12.30
14-18 years	na	42	52	60	73	106	152	183	207	248	2.37	2.88	3.30	4.23	7.60	12.50	15.10	17.00	20.70
19-30 years	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
31-50 years	na	32	40	46	58	84	119	142	160	189	2.00	2.36	2.63	3.07	4.27	6.16	7.36	8.19	9.61
51-70 years	na	28	35	40	50	73	104	124	138	162	1.97	2.19	2.39	2.83	4.52	6.83	7.78	8.35	9.20
71 + years	na	27	36	43	55	83	126	158	186	239	1.83	2.10	2.28	2.61	4.65	11.20	17.50	23.70	36.90
Income-eligible, food stamp nonparticipants																			
1-3 years	na	› 37	44	50	61	85	116	135	149	171	1.24	1.48	1.68	2.02	2.81	3.62	4.06	4.43	5.12
4-8 years	na	48	56	62	72	94	› 120	›› 137	›› 149	› 168	2.15	2.39	2.52	2.65	2.89	3.50	4.11	4.67	5.77
9-13 years	na	›› 52	› 61	67	77	98	124	› 140	›› 152	›› 171	2.33	2.38	2.42	2.54	3.10	4.41	5.19	5.71	6.53
14-18 years	na	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
19-30 years	na	42	51	58	71	101	139	164	182	211	1.81	2.06	2.27	2.66	3.54	4.64	5.43	6.08	7.23
31-50 years	na	26	34	41	52	81	121	148	169	205	1.26	1.49	1.70	2.10	3.05	4.90	6.46	7.65	9.62
51-70 years	na	24	32	39	51	81	120	147	› 167	›› 200	1.21	1.52	1.76	2.17	3.06	3.93	4.53	5.16	6.71
71 + years	na	26	35	42	55	85	124	150	170	202	1.10	1.30	1.46	1.75	2.61	3.91	4.93	5.86	7.72
Higher-income, food stamp nonparticipants																			
1-3 years	na	36	43	49	59	83	113	133	148	173	0.81	0.92	1.01	1.16	1.51	2.04	2.48	2.88	3.68
4-8 years	na	45	54	60	71	96	126	145	159	181	1.18	1.36	1.49	1.71	2.16	2.71	3.13	3.52	4.31
9-13 years	na	44	53	60	71	97	130	150	165	189	1.11	1.29	1.43	1.66	2.14	2.78	3.24	3.61	4.29
14-18 years	na	34	44	51	64	96	140	168	190	225	1.85	2.24	2.54	3.03	4.15	5.57	6.48	7.20	8.60
19-30 years	na	37	46	53	65	95	136	162	182	215	1.15	1.42	1.63	1.94	2.48	3.22	3.78	4.25	5.14
31-50 years	na	33	42	49	62	92	133	160	181	215	0.68	0.78	0.85	1.00	1.46	2.11	2.56	2.93	3.59
51-70 years	na	32	› 42	›› 50	››› 64	››› 98	››› 145	››› 177	››› 203	››› 249	0.71	0.90	1.05	1.32	1.93	3.04	4.23	5.41	7.97
71 + years	na	32	› 43	›› 52	›› 66	›› 100	143	171	191	223	0.82	0.93	1.01	1.13	1.49	2.25	2.95	3.55	4.67

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).* 'Total Persons' includes persons with missing FSP participation or income.

Table D-20—Mean usual intake of iron in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
1-3 years	3,309	10.4	0.08	1,113	10.6	0.18	675	10.5	0.27	1,315	10.4	0.13
4-8 years	3,448	13.1	0.11	1,068	13.4	0.26	712	13.5	0.34	1,470	13.1	0.16
9-13 years	2,457	15.2	0.17	663	14.8	0.33	538	15.0	0.41	1,113	15.5	0.27
14-18 years	1,938	16.2	0.44	485	15.2	0.36	431	14.8	0.39	871	› 16.8	0.66
19-30 years	4,103	15.9	0.16	756	15.3	0.34	962	15.7	0.46	2,078	16.0	0.21
31-50 years	5,588	15.9	0.13	831	14.4	0.49	935	15.2	0.56	3,469	››› 16.1	0.16
51-70 years	4,019	15.3	0.18	453	12.2	0.46	687	›› 14.0	0.49	2,533	››› 15.8	0.20
71 + years	2,623	14.4	0.12	239	11.5	0.42	571	12.0	0.18	1,525	››› 15.2	0.18
Total, age adjusted	27,485	15.2	0.07	5,608	13.8	0.19	5,511	› 14.4	0.22	14,374	››› 15.5	0.09
Males												
1-3 years	1,641	10.9	0.14	585	11.1	0.21	328	10.8	0.36	630	10.9	0.22
4-8 years	1,707	14.1	0.17	500	14.7	0.36	346	14.2	0.45	756	14.1	0.26
9-13 years	1,219	16.5	0.27	338	14.8	0.60	256	›› 17.3	0.57	555	›› 17.0	0.38
14-18 years	909	20.0	0.85	217	16.6	0.62	203	17.4	0.58	403	››› 21.7	1.27
19-30 years	1,902	18.8	0.30	241	19.5	0.73	483	19.3	0.83	1,012	18.6	0.38
31-50 years	2,533	19.0	0.23	281	18.3	1.13	437	18.3	0.99	1,656	19.0	0.27
51-70 years	1,942	18.3	0.28	183	15.0	1.24	–	–	–	1,284	›› 18.7	0.30
71 + years	1,255	16.6	0.28	106	12.9	0.85	232	13.4	0.46	798	››› 17.4	0.35
Total, age adjusted	13,108	17.8	0.12	2,451	16.5	0.44	2,609	16.8	0.36	7,094	››› 18.1	0.16
Females												
1-3 years	1,668	9.9	0.14	528	9.9	0.27	347	10.2	0.36	685	9.8	0.18
4-8 years	1,741	12.0	0.15	568	12.4	0.25	366	12.7	0.35	714	11.8	0.20
9-13 years	1,234	13.9	0.31	325	14.8	0.70	280	› 12.8	0.47	556	13.9	0.43
14-18 years	1,022	12.5	0.27	264	14.3	0.53	227	› 12.8	0.55	466	››› 11.8	0.32
19-30 years	2,194	13.1	0.14	512	13.5	0.30	476	›› 12.2	0.28	1,066	13.3	0.24
31-50 years	3,017	13.0	0.17	547	12.1	0.37	495	12.6	0.45	1,783	›› 13.2	0.18
51-70 years	2,077	12.7	0.19	270	10.9	0.36	363	›› 12.9	0.68	1,249	››› 12.9	0.21
71 + years	1,368	12.8	0.16	133	10.9	0.45	339	11.5	0.22	727	››› 13.5	0.24
Total, age adjusted	14,377	12.8	0.08	3,157	12.3	0.16	2,902	12.4	0.20	7,280	›› 12.9	0.09

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-21—Percent of persons with adequate usual intake of iron[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
1-3 years	3,309	99.8	0.03	1,113	99.7	0.07	675	99.7	0.08	1,315	›››100.0	0.01
4-8 years	3,448	100.0	0.00	1,068	100.0	0.00	712	100.0	0.00	1,470	100.0	0.00
9-13 years	2,457	99.5	0.10	663	99.2	0.23	538	99.5	0.23	1,113	99.6	0.13
14-18 years	1,938	90.6	0.61	485	94.1	1.02	431	94.1	0.84	871	›››88.5	0.84
19-30 years	4,103	92.0	0.24	756	86.2	1.26	962	›› 90.5	0.75	2,078	›››93.2	0.28
31-50 years	5,588	91.0	0.29	831	85.4	0.95	935	› 88.4	0.75	3,469	›››91.8	0.31
51-70 years	4,019	99.5	0.04	453	96.2	0.77	687	–	–	2,533	›››99.8	0.04
71 + years	2,623	98.7	0.11	239	96.3	0.80	571	96.1	0.49	1,525	›››99.4	0.06
Total, age adjusted	27,485	94.2	0.13	5,608	91.3	0.42	5,511	91.7	0.38	14,374	›››94.9	0.13
Males												
1-3 years	1,641	100.0	0.03	585	99.8	0.08	328	› 100.0	0.04	630	›› 100.0	0.00
4-8 years	1,707	100.0	0.00	500	100.0	0.00	346	100.0	0.00	756	100.0	0.00
9-13 years	1,219	100.0	0.00	338	99.9	0.07	256	100.0	0.06	555	100.0	0.00
14-18 years	909	99.5	0.10	217	100.0	0.00	203	›› 97.8	0.77	403	›› 99.8	0.07
19-30 years	1,902	100.0	0.01	241	100.0	0.00	483	100.0	0.04	1,012	100.0	0.00
31-50 years	2,533	99.9	0.03	281	98.5	0.43	437	99.2	0.32	1,656	›››100.0	0.00
51-70 years	1,942	99.7	0.07	183	97.8	1.46	–	–	–	1,284	99.8	0.05
71 + years	1,255	98.8	0.15	106	93.1	2.10	232	› 97.8	0.49	798	›› 99.4	0.10
Total, age adjusted	13,108	99.8	0.02	2,451	98.5	0.35	2,609	99.1	0.15	7,094	›››99.9	0.01
Females												
1-3 years	1,668	99.6	0.08	528	99.5	0.18	347	99.4	0.17	685	› 99.9	0.05
4-8 years	1,741	100.0	0.00	568	99.9	0.09	366	100.0	0.00	714	100.0	0.00
9-13 years	1,234	99.0	0.21	325	98.6	0.45	280	99.0	0.45	556	99.2	0.27
14-18 years	1,022	81.9	1.22	264	89.6	1.80	227	91.2	1.38	466	›››77.2	1.69
19-30 years	2,194	84.3	0.47	512	80.1	1.81	476	81.0	1.51	1,066	›› 86.1	0.56
31-50 years	3,017	82.7	0.55	547	77.3	1.51	495	79.2	1.36	1,783	›››83.7	0.62
51-70 years	2,077	99.4	0.06	270	95.4	0.91	363	97.5	0.77	1,249	›››99.7	0.05
71 + years	1,368	98.6	0.15	133	97.8	0.60	339	›› 95.4	0.65	727	›› 99.4	0.08
Total, age adjusted	14,377	90.4	0.21	3,157	87.8	0.59	2,902	88.8	0.52	7,280	›››90.8	0.25

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

[1] Estimated Average Requirements (EARs) were used to assess the adequacy of intake in groups. The EAR cut-point method was used for all groups except women age 9-50; the probability approach was used for women of childbearing age because the distribution of nutrient requirements is not symmetrical. See IOM, *Dietary Reference Intakes: Applications in Dietary Assessment,* Chapter 4. EARs are defined separately for gender and age groups as listed in appendix B.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-22—Distribution of usual iron intake in milligrams

Male

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	3.0	5.9	6.7	7.2	8.2	10.2	12.7	14.5	15.8	18.2	0.10	0.10	0.10	0.11	0.14	0.19	0.22	0.25	0.30
4-8 years	4.1	8.4	9.4	10.1	11.2	13.5	16.4	18.2	19.5	21.7	0.14	0.14	0.14	0.14	0.16	0.21	0.25	0.28	0.35
9-13 years	5.9	10.3	11.4	12.1	13.3	15.9	19.0	21.0	22.5	25.0	0.15	0.15	0.16	0.17	0.24	0.39	0.48	0.54	0.65
14-18 years	7.7	10.6	11.9	12.9	14.4	18.0	23.0	26.7	29.7	35.7	0.23	0.25	0.27	0.31	0.46	0.88	1.35	1.84	3.05
19-30 years	6.0	10.8	12.1	13.0	14.5	17.7	21.9	24.7	26.8	30.6	0.21	0.21	0.22	0.24	0.28	0.38	0.51	0.65	0.90
31-50 years	6.0	10.3	11.6	12.6	14.2	17.8	22.4	25.4	27.8	31.9	0.10	0.10	0.10	0.12	0.18	0.31	0.43	0.53	0.72
51-70 years	6.0	9.2	10.5	11.4	13.0	16.7	21.8	25.3	28.1	32.8	0.13	0.13	0.12	0.13	0.20	0.37	0.51	0.62	0.84
71 + years	6.0	7.8	9.0	9.9	11.3	14.8	19.8	23.5	26.4	31.6	0.13	0.14	0.14	0.15	0.20	0.35	0.50	0.65	0.99
Persons currently receiving food stamps																			
1-3 years	3.0	5.7	6.6	7.3	8.3	10.4	13.2	15.0	16.4	18.8	0.18	0.18	0.18	0.19	0.23	0.29	0.32	0.36	0.48
4-8 years	4.1	9.3	10.2	10.9	11.9	14.1	16.8	18.5	19.7	21.9	0.23	0.25	0.27	0.28	0.33	0.46	0.58	0.64	0.76
9-13 years	5.9	9.1	10.1	10.7	11.8	14.1	17.0	18.9	20.3	22.6	0.33	0.35	0.37	0.42	0.57	0.77	0.88	0.96	1.08
14-18 years	7.7	12.3	13.1	13.6	14.5	16.3	18.3	19.5	20.4	21.8	0.41	0.44	0.47	0.52	0.62	0.74	0.82	0.88	0.98
19-30 years	6.0	11.4	12.8	13.7	15.3	18.6	22.7	25.3	27.2	30.4	0.50	0.52	0.55	0.59	0.68	0.89	1.06	1.21	1.52
31-50 years	6.0	7.6	8.8	9.8	11.5	16.3	23.1	27.6	31.0	36.3	0.33	0.36	0.42	0.61	1.09	1.69	2.20	2.50	2.66
51-70 years	6.0	7.0	8.2	9.1	10.6	13.9	18.3	21.1	23.2	26.7	0.65	0.72	0.79	0.89	1.20	1.58	1.81	1.99	2.29
71 + years	6.0	5.5	6.6	7.4	8.6	11.3	14.9	17.6	19.9	24.8	0.45	0.48	0.50	0.50	0.63	0.92	1.29	1.83	3.33
Income-eligible, food stamp nonparticipants																			
1-3 years	3.0	5.5	6.2	6.8	7.7	9.8	12.7	14.9	16.6	19.7	0.20	0.22	0.23	0.25	0.32	0.46	0.58	0.72	1.11
4-8 years	4.1	8.8	9.7	10.3	11.4	13.6	16.4	18.0	19.3	21.3	0.25	0.27	0.29	0.33	0.43	0.57	0.66	0.74	0.87
9-13 years	5.9	10.5	11.6	› 12.4	› 13.8	›› 16.7	› 20.2	22.1	23.6	26.0	0.42	0.43	0.43	0.45	0.54	0.66	0.81	0.95	1.22
14-18 years	7.7	››› 9.1	››› 10.5	›› 11.5	13.0	16.3	20.4	› 23.3	›› 25.5	››› 29.5	0.47	0.45	0.43	0.43	0.52	0.70	0.85	1.00	1.42
19-30 years	6.0	10.8	12.1	13.0	14.5	18.1	23.0	26.0	28.3	31.9	0.35	0.36	0.38	0.45	0.71	1.15	1.43	1.64	2.06
31-50 years	6.0	8.7	10.1	11.2	12.9	16.7	21.8	25.4	28.3	33.4	0.41	0.40	0.42	0.48	0.78	1.34	1.75	2.10	2.78
51-70 years	6.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
71 + years	6.0	› 7.0	7.9	8.6	9.8	12.4	15.7	18.0	19.8	23.0	0.22	0.23	0.25	0.28	0.37	0.56	0.75	0.92	1.28
Higher-income, food stamp nonparticipants																			
1-3 years	3.0	6.1	6.8	7.4	8.3	10.3	12.8	14.4	15.7	17.9	0.14	0.15	0.16	0.18	0.22	0.27	0.31	0.34	0.40
4-8 years	4.1	›› 8.3	› 9.3	10.0	11.2	13.6	16.4	18.3	19.7	22.0	0.19	0.20	0.20	0.20	0.24	0.32	0.38	0.44	0.53
9-13 years	5.9	›› 10.4	›› 11.5	›› 12.3	›› 13.6	›› 16.3	› 19.6	21.8	23.4	26.0	0.17	0.17	0.18	0.20	0.32	0.52	0.65	0.76	0.97
14-18 years	7.7	11.3	12.6	13.6	15.2	› 19.1	››› 24.8	››› 29.2	››› 33.0	›› 40.5	0.34	0.37	0.40	0.45	0.65	1.24	1.97	2.78	4.76
19-30 years	6.0	11.0	12.2	13.1	14.5	17.6	21.6	24.1	26.2	29.6	0.26	0.27	0.28	0.29	0.34	0.45	0.58	0.72	1.03
31-50 years	6.0	››› 10.7	››› 12.0	››› 12.9	››› 14.5	17.9	22.2	25.2	27.4	31.4	0.12	0.13	0.14	0.16	0.22	0.36	0.48	0.59	0.79
51-70 years	6.0	››› 9.8	››› 11.1	›› 12.0	›› 13.6	17.2	22.2	25.7	28.4	33.0	0.14	0.14	0.14	0.16	0.22	0.38	0.52	0.63	0.84
71 + years	6.0	››› 8.3	››› 9.4	››› 10.3	››› 11.7	››› 15.4	››› 20.8	››› 24.7	››› 27.8	33.3	0.15	0.16	0.17	0.19	0.25	0.42	0.62	0.82	1.26

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.
na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-22—Distribution of usual iron intake in milligrams — Continued

Female

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	3.0	5.0	5.8	6.3	7.2	9.3	11.8	13.5	14.7	16.8	0.08	0.08	0.09	0.10	0.14	0.20	0.23	0.25	0.30
4-8 years	4.1	7.4	8.2	8.8	9.7	11.6	13.8	15.3	16.5	18.4	0.10	0.10	0.10	0.10	0.12	0.18	0.24	0.29	0.40
9-13 years	5.7	8.1	9.0	9.6	10.7	13.1	16.3	18.3	19.8	22.3	0.18	0.19	0.19	0.21	0.27	0.39	0.48	0.54	0.65
14-18 years	7.9	6.7	7.6	8.3	9.4	11.8	14.8	16.7	18.2	20.6	0.16	0.17	0.19	0.22	0.28	0.34	0.38	0.42	0.46
19-30 years	8.1	7.7	8.6	9.2	10.2	12.5	15.3	17.0	18.4	20.7	0.08	0.08	0.09	0.10	0.13	0.20	0.24	0.28	0.34
31-50 years	8.1	7.2	8.1	8.8	9.8	12.1	15.1	17.2	18.8	21.6	0.09	0.09	0.09	0.10	0.14	0.20	0.27	0.33	0.45
51-70 years	5.0	6.9	7.7	8.4	9.4	11.8	15.0	17.2	18.9	21.9	0.08	0.09	0.10	0.11	0.15	0.25	0.33	0.41	0.55
71 + years	5.0	6.3	7.2	7.9	9.0	11.7	15.4	17.9	19.9	23.2	0.07	0.07	0.08	0.08	0.12	0.22	0.30	0.36	0.46
Persons currently receiving food stamps																			
1-3 years	3.0	4.9	5.7	6.4	7.3	9.4	12.0	13.6	14.8	16.7	0.20	0.19	0.20	0.21	0.25	0.34	0.41	0.47	0.57
4-8 years	4.1	7.3	8.2	8.8	9.8	12.0	14.5	16.1	17.2	19.0	0.18	0.18	0.18	0.20	0.26	0.32	0.36	0.40	0.46
9-13 years	5.7	7.7	8.8	9.6	11.0	14.0	17.6	19.9	21.7	24.7	0.42	0.45	0.48	0.52	0.61	0.85	1.06	1.23	1.54
14-18 years	7.9	7.5	8.6	9.5	10.8	13.5	16.9	19.2	20.8	23.6	0.36	0.38	0.39	0.40	0.49	0.65	0.80	0.94	1.22
19-30 years	8.1	6.1	7.3	8.2	9.6	12.6	16.3	18.8	20.7	23.8	0.18	0.20	0.20	0.22	0.28	0.42	0.53	0.62	0.75
31-50 years	8.1	6.3	7.2	7.9	9.0	11.2	14.2	16.2	17.8	20.6	0.20	0.20	0.20	0.21	0.31	0.56	0.68	0.78	1.00
51-70 years	5.0	5.1	6.0	6.7	7.8	10.1	13.2	15.2	16.8	19.4	0.21	0.22	0.24	0.26	0.34	0.50	0.64	0.75	0.91
71 + years	5.0	5.7	6.5	7.0	8.0	10.2	13.0	14.8	16.2	18.5	0.23	0.25	0.27	0.31	0.42	0.57	0.68	0.76	0.92
Income-eligible, food stamp nonparticipants																			
1-3 years	3.0	4.4	5.2	5.8	6.8	9.2	12.4	14.6	16.3	19.3	0.18	0.18	0.18	0.21	0.30	0.50	0.65	0.75	0.90
4-8 years	4.1	› 8.2	9.0	9.6	10.5	12.3	14.5	15.9	16.9	18.6	0.25	0.26	0.28	0.30	0.32	0.39	0.46	0.53	0.65
9-13 years	5.7	8.0	8.8	9.4	10.3	12.4	15.0	16.5	› 17.6	›› 19.2	0.29	0.30	0.32	0.36	0.48	0.61	0.66	0.68	0.70
14-18 years	7.9	8.5	9.3	9.9	10.8	12.6	14.6	›› 15.7	›› 16.5	››› 17.7	0.45	0.48	0.50	0.52	0.56	0.59	0.61	0.63	0.66
19-30 years	8.1	››› 7.4	›› 8.2	8.8	9.7	11.7	››› 14.1	››› 15.6	››› 16.7	››› 18.5	0.18	0.18	0.19	0.21	0.27	0.36	0.41	0.46	0.54
31-50 years	8.1	6.5	7.4	8.1	9.3	11.7	14.9	17.1	18.8	21.8	0.18	0.19	0.20	0.24	0.37	0.58	0.77	0.93	1.20
51-70 years	5.0	5.7	6.6	7.3	8.4	11.1	15.2	18.4	21.2	26.3	0.28	0.29	0.30	0.34	0.48	0.85	1.21	1.57	2.37
71 + years	5.0	5.1	5.9	6.5	7.6	10.1	13.8	16.5	› 18.8	›› 23.0	0.15	0.16	0.17	0.16	0.16	0.30	0.42	0.54	0.80
Higher-income, food stamp nonparticipants																			
1-3 years	3.0	5.3	6.0	6.6	7.4	9.3	11.7	13.2	14.4	16.2	0.11	0.12	0.12	0.14	0.19	0.25	0.28	0.30	0.32
4-8 years	4.1	7.4	8.1	8.6	9.5	11.3	13.5	14.9	16.0	17.9	0.13	0.13	0.13	0.13	0.16	0.24	0.33	0.41	0.57
9-13 years	5.7	8.2	9.1	9.7	10.7	13.1	16.3	18.2	19.7	22.1	0.24	0.25	0.26	0.28	0.38	0.56	0.66	0.73	0.84
14-18 years	7.9	›› 6.1	››› 7.0	››› 7.6	››› 8.6	››› 11.0	›› 14.1	›› 16.1	› 17.6	20.1	0.15	0.16	0.18	0.21	0.30	0.42	0.51	0.58	0.73
19-30 years	8.1	››› 8.2	››› 9.0	››› 9.6	›› 10.6	12.7	15.3	› 16.9	›› 18.2	››› 20.3	0.13	0.15	0.16	0.18	0.24	0.34	0.39	0.42	0.48
31-50 years	8.1	››› 7.4	››› 8.3	››› 9.0	››› 10.1	› 12.3	15.3	17.3	18.9	21.7	0.10	0.10	0.10	0.11	0.15	0.22	0.28	0.34	0.45
51-70 years	5.0	››› 7.2	››› 8.1	››› 8.7	››› 9.8	››› 12.1	›› 15.2	17.2	18.8	21.5	0.10	0.10	0.11	0.12	0.18	0.27	0.35	0.42	0.54
71 + years	5.0	››› 6.8	››› 7.8	››› 8.5	››› 9.7	››› 12.5	››› 16.1	››› 18.6	››› 20.5	››› 23.7	0.09	0.10	0.11	0.13	0.20	0.31	0.40	0.48	0.65

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-22—Distribution of usual iron intake in milligrams — Continued

Both sexes

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	na	5.4	6.2	6.8	7.7	9.7	12.3	14.0	15.3	17.5	0.06	0.06	0.06	0.06	0.07	0.10	0.12	0.14	0.17
4-8 years	na	7.8	8.7	9.4	10.4	12.6	15.3	17.0	18.3	20.4	0.09	0.09	0.09	0.09	0.10	0.13	0.16	0.19	0.26
9-13 years	na	8.8	9.8	10.6	11.7	14.4	17.9	20.1	21.8	24.5	0.11	0.10	0.10	0.10	0.13	0.23	0.30	0.35	0.42
14-18 years	na	7.5	8.7	9.7	11.2	14.6	19.1	22.3	25.0	30.1	0.12	0.14	0.16	0.19	0.24	0.41	0.64	0.91	1.60
19-30 years	na	8.3	9.4	10.3	11.7	14.8	18.8	21.5	23.5	27.1	0.08	0.09	0.10	0.11	0.14	0.19	0.26	0.34	0.50
31-50 years	na	7.9	9.1	9.9	11.3	14.6	18.9	21.9	24.3	28.4	0.07	0.07	0.07	0.08	0.11	0.18	0.25	0.31	0.43
51-70 years	na	7.4	8.5	9.3	10.6	13.8	18.3	21.5	24.0	28.5	0.08	0.08	0.08	0.09	0.12	0.22	0.33	0.42	0.58
71 + years	na	6.6	7.6	8.4	9.7	12.8	17.3	20.5	23.0	27.4	0.05	0.05	0.06	0.07	0.11	0.18	0.23	0.28	0.39
Persons currently receiving food stamps																			
1-3 years	na	5.3	6.2	6.9	7.9	10.0	12.7	14.4	15.7	17.9	0.12	0.12	0.12	0.13	0.16	0.22	0.27	0.32	0.42
4-8 years	na	8.1	9.0	9.7	10.7	12.9	15.5	17.2	18.5	20.6	0.17	0.17	0.18	0.20	0.24	0.31	0.40	0.47	0.56
9-13 years	na	8.2	9.3	10.0	11.3	14.0	17.3	19.6	21.3	24.2	0.22	0.22	0.22	0.23	0.28	0.42	0.55	0.66	0.86
14-18 years	na	8.4	9.5	10.3	11.6	14.3	17.9	20.2	22.1	25.2	0.26	0.26	0.26	0.27	0.34	0.49	0.60	0.68	0.87
19-30 years	na	7.0	8.2	9.2	10.8	14.2	18.5	21.4	23.6	27.3	0.21	0.24	0.26	0.28	0.32	0.43	0.50	0.57	0.71
31-50 years	na	6.3	7.5	8.3	9.7	12.9	17.6	20.8	23.3	27.6	0.17	0.16	0.17	0.21	0.43	0.69	0.89	1.07	1.40
51-70 years	na	5.5	6.5	7.2	8.4	11.1	14.8	17.3	19.3	22.7	0.21	0.24	0.26	0.30	0.41	0.62	0.79	0.94	1.21
71 + years	na	5.6	6.4	7.1	8.1	10.6	13.8	16.0	17.7	20.5	0.22	0.24	0.26	0.29	0.38	0.53	0.68	0.82	1.17
Income-eligible, food stamp nonparticipants																			
1-3 years	na	4.8	› 5.6	›› 6.2	› 7.2	9.5	12.6	14.8	16.6	19.6	0.14	0.16	0.16	0.18	0.24	0.37	0.46	0.53	0.70
4-8 years	na	8.2	9.0	9.7	10.7	12.9	15.6	17.3	18.5	20.6	0.20	0.21	0.23	0.25	0.30	0.42	0.54	0.60	0.69
9-13 years	na	8.8	9.8	10.5	11.7	14.4	17.8	19.8	21.1	23.3	0.25	0.26	0.27	0.30	0.40	0.55	0.63	0.68	0.78
14-18 years	na	7.5	8.7	9.6	11.1	14.1	17.7	20.0	21.7	24.6	0.32	0.34	0.35	0.36	0.37	0.46	0.54	0.62	0.84
19-30 years	na	›› 8.0	› 9.2	10.0	11.4	14.6	18.7	21.5	23.6	27.1	0.20	0.20	0.22	0.25	0.36	0.60	0.81	0.98	1.30
31-50 years	na	6.9	8.1	9.0	10.4	13.7	18.3	21.6	24.2	28.8	0.19	0.20	0.22	0.26	0.42	0.74	1.05	1.30	1.76
51-70 years	na	6.2	7.2	8.0	9.3	12.4	16.9	20.1	22.6	27.1	0.24	0.25	0.26	0.29	0.39	0.65	0.89	1.09	1.46
71 + years	na	5.6	6.5	7.1	8.2	10.7	14.4	17.0	19.0	22.5	0.12	0.10	0.10	0.10	0.14	0.25	0.34	0.42	0.56
Higher-income, food stamp nonparticipants																			
1-3 years	na	5.7	6.4	7.0	7.8	9.8	12.2	13.8	15.0	17.1	0.09	0.09	0.09	0.10	0.13	0.17	0.19	0.21	0.25
4-8 years	na	7.8	8.7	9.3	10.3	12.5	15.2	16.9	18.2	20.4	0.12	0.11	0.11	0.12	0.15	0.20	0.25	0.28	0.34
9-13 years	na	› 9.0	10.0	10.7	11.9	14.6	18.2	20.5	22.2	24.9	0.14	0.14	0.14	0.14	0.21	0.39	0.49	0.56	0.68
14-18 years	na	›› 7.3	› 8.5	9.4	10.9	14.6	19.6	› 23.3	› 26.5	› 33.0	0.15	0.18	0.21	0.26	0.34	0.54	0.86	1.26	2.40
19-30 years	na	››› 8.7	››› 9.8	››› 10.6	›› 12.0	14.9	18.8	21.3	23.3	26.7	0.11	0.12	0.13	0.14	0.18	0.25	0.34	0.42	0.61
31-50 years	na	››› 8.2	››› 9.4	››› 10.3	››› 11.6	››› 14.8	19.0	21.9	24.2	28.3	0.08	0.08	0.09	0.10	0.14	0.23	0.31	0.37	0.50
51-70 years	na	››› 7.8	››› 8.9	››› 9.8	››› 11.1	››› 14.4	››› 18.8	››› 21.9	››› 24.4	››› 28.6	0.08	0.09	0.09	0.10	0.15	0.26	0.36	0.45	0.62
71 + years	na	››› 7.1	››› 8.2	››› 9.0	››› 10.3	››› 13.6	››› 18.3	››› 21.6	››› 24.3	››› 28.9	0.07	0.07	0.08	0.10	0.16	0.25	0.33	0.41	0.58

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-23—Mean usual intake of zinc in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
1-3 years	3,309	6.9	0.06	1,113	7.2	0.11	675	7.2	0.17	1,315	›› 6.8	0.09
4-8 years	3,448	8.9	0.08	1,068	9.3	0.22	712	9.6	0.26	1,470	› 8.7	0.10
9-13 years	2,457	10.8	0.13	663	10.8	0.22	538	10.6	0.26	1,113	11.0	0.18
14-18 years	1,938	12.4	0.32	485	11.4	0.29	431	11.1	0.37	871	› 12.7	0.48
19-30 years	4,103	12.6	0.14	756	12.1	0.35	962	12.5	0.33	2,078	12.7	0.17
31-50 years	5,588	12.3	0.10	831	11.8	0.62	935	12.6	0.43	3,469	12.3	0.11
51-70 years	4,019	11.4	0.13	453	10.2	0.52	687	10.1	0.40	2,533	›› 11.8	0.16
71 + years	2,623	10.0	0.18	239	8.2	0.39	571	8.4	0.21	1,525	››› 10.7	0.26
Total, age adjusted	27,485	11.4	0.05	5,608	10.8	0.23	5,511	11.1	0.17	14,374	››› 11.6	0.07
Males												
1-3 years	1,641	7.2	0.06	585	7.4	0.12	328	7.4	0.20	630	7.1	0.11
4-8 years	1,707	9.6	0.13	500	10.1	0.28	346	10.2	0.42	756	› 9.3	0.18
9-13 years	1,219	11.9	0.18	338	11.3	0.28	256	› 12.4	0.38	555	12.0	0.24
14-18 years	909	15.3	0.58	217	12.7	0.55	203	13.4	0.57	403	››› 16.6	0.93
19-30 years	1,902	15.4	0.26	241	15.3	0.60	483	15.6	0.49	1,012	15.6	0.28
31-50 years	2,533	14.9	0.16	281	16.8	1.62	437	16.2	0.85	1,656	14.6	0.16
51-70 years	1,942	13.9	0.20	183	13.4	1.29	324	11.2	0.31	1,284	14.3	0.24
71 + years	1,255	12.3	0.46	106	9.8	0.69	232	9.2	0.30	798	››› 13.0	0.63
Total, age adjusted	13,108	13.7	0.10	2,451	13.8	0.57	2,609	13.3	0.29	7,094	13.8	0.12
Females												
1-3 years	1,668	6.7	0.10	528	7.0	0.21	347	7.0	0.23	685	› 6.5	0.13
4-8 years	1,741	8.3	0.10	568	8.6	0.20	366	8.9	0.20	714	› 8.0	0.14
9-13 years	1,238	9.7	0.20	325	10.4	0.39	282	›› 8.9	0.26	558	9.8	0.33
14-18 years	1,029	9.3	0.24	268	10.4	0.30	228	› 9.3	0.41	468	››› 8.8	0.26
19-30 years	2,201	9.9	0.13	515	10.7	0.37	479	›› 9.4	0.25	1,066	› 9.8	0.19
31-50 years	3,055	9.8	0.12	550	9.0	0.22	498	9.4	0.29	1,813	››› 10.0	0.13
51-70 years	2,077	9.2	0.13	270	8.6	0.34	363	9.1	0.56	1,249	› 9.4	0.15
71 + years	1,368	8.6	0.14	133	7.5	0.37	339	8.2	0.27	727	››› 8.9	0.19
Total, age adjusted	14,377	9.3	0.06	3,157	9.2	0.12	2,902	9.1	0.15	7,280	9.4	0.07

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-24—Percent of persons with adequate usual intake of zinc[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes[2]												
1-3 years	3,309	100.0	0.00	1,113	100.0	0.01	675	100.0	0.00	1,315	100.0	0.00
4-8 years	3,448	99.7	0.05	1,068	100.0	0.01	712	› 99.7	0.10	1,470	›››99.6	0.09
9-13 years	2,457	91.4	0.67	663	88.9	1.60	538	›››98.5	0.83	1,113	91.9	0.95
14-18 years	1,938	84.6	1.26	485	87.0	2.04	431	87.1	3.02	871	› 81.4	1.49
19-30 years	4,103	92.1	0.56	756	87.9	1.19	962	89.4	1.45	2,078	›››94.3	0.65
31-50 years	5,588	88.2	0.43	831	75.6	1.79	935	›››86.4	1.51	3,469	›››89.6	0.47
51-70 years	4,019	80.8	0.72	453	75.8	3.75	687	67.1	2.77	2,533	› 83.9	0.72
71 + years	2,623	66.8	1.08	239	49.2	4.22	571	52.2	2.15	1,525	›››70.5	1.26
Total, age adjusted	27,485	87.0	0.25	5,608	80.0	0.98	5,511	› 83.0	0.78	14,374	›››88.4	0.28
Male												
1-3 years	1,641	100.0	0.00	585	99.9	0.07	328	100.0	0.00	630	100.0	0.00
4-8 years	1,707	99.8	0.05	500	100.0	0.00	346	›››99.8	0.06	756	› 99.7	0.12
9-13 years	1,219	98.8	0.22	338	95.7	0.93	256	›››99.4	0.32	555	›››98.9	0.28
14-18 years	909	97.1	0.63	217	86.7	3.25	203	83.4	2.95	403	›››98.7	0.42
19-30 years	1,902	94.0	0.78	241	93.7	1.94	483	90.9	1.47	1,012	95.8	0.77
31-50 years	2,533	91.3	0.47	281	82.2	2.99	437	›››93.5	1.53	1,656	›› 91.4	0.54
51-70 years	1,942	83.2	0.89	183	76.2	8.42	324	66.4	2.90	1,284	86.1	0.91
71 + years	1,255	62.9	1.50	106	45.3	6.91	232	38.8	3.61	798	›› 67.2	1.65
Total, age adjusted	13,108	89.8	0.29	2,451	83.1	1.91	2,609	83.9	0.83	7,094	›››91.1	0.30
Female												
1-3 years	1,668	100.0	0.00	528	100.0	0.00	347	100.0	0.00	685	100.0	0.00
4-8 years	1,741	99.7	0.07	568	99.7	0.13	366	99.8	0.13	714	99.7	0.09
9-13 years	1,238	83.8	1.34	325	82.2	3.04	282	›››97.7	1.62	558	84.6	1.92
14-18 years	1,029	72.4	2.42	268	87.3	2.60	228	89.9	4.86	468	›››63.9	2.97
19-30 years	2,201	90.3	0.81	515	85.4	1.49	479	88.0	2.50	1,066	›››92.7	1.05
31-50 years	3,055	85.2	0.71	550	71.5	2.24	498	›› 80.4	2.47	1,813	›››87.9	0.76
51-70 years	2,077	78.7	1.11	270	75.7	3.79	363	67.7	4.46	1,249	81.7	1.10
71 + years	1,368	69.4	1.49	133	51.1	5.30	339	57.4	2.63	727	›››73.2	1.86
Total, age adjusted	14,377	84.2	0.40	3,157	77.9	1.14	2,902	› 81.6	1.26	7,280	›››85.7	0.47

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Estimated Average Requirements (EARs) were used to assess the adequacy of intake in groups, using the EAR cut-point method described in IOM, *Dietary Reference Intakes: Applications in Dietary Assessment,* Chapter 4. EARs are defined separately for gender and age groups as listed in appendix B.

2 Because adequacy cutoffs vary by gender, estimates for both sexes were calculated outside C-SIDE as the weighted average of male and female estimates from C-SIDE.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-25—Distribution of usual zinc intake in milligrams

Male

	EAR (mg/dy)	Percentiles								Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	2.2	4.5	5.0	5.3	5.9	7.0	8.3	9.1	9.6	10.6	0.06	0.06	0.06	0.06	0.07	0.07	0.09	0.10	0.12
4-8 years	4.0	5.9	6.5	7.0	7.7	9.2	11.0	12.2	13.0	14.4	0.10	0.10	0.10	0.11	0.12	0.15	0.18	0.20	0.25
9-13 years	7.0	8.1	8.8	9.3	10.0	11.6	13.5	14.6	15.4	16.7	0.12	0.13	0.13	0.14	0.16	0.23	0.30	0.37	0.49
14-18 years	8.5	9.1	10.0	10.7	11.8	14.3	17.6	19.9	21.7	25.1	0.22	0.24	0.26	0.29	0.38	0.63	0.91	1.21	1.93
19-30 years	9.4	9.1	10.2	11.0	12.2	14.9	18.0	19.9	21.4	23.7	0.18	0.19	0.20	0.21	0.25	0.31	0.38	0.43	0.49
31-50 years	9.4	8.6	9.6	10.3	11.5	14.1	17.3	19.5	21.1	23.9	0.08	0.09	0.09	0.11	0.15	0.21	0.25	0.30	0.43
51-70 years	9.4	7.5	8.5	9.2	10.3	12.9	16.3	18.6	20.4	23.6	0.10	0.10	0.11	0.12	0.15	0.24	0.34	0.45	0.72
71 + years	9.4	5.9	6.7	7.3	8.3	10.6	13.9	16.5	18.9	23.8	0.08	0.09	0.10	0.11	0.17	0.37	0.64	0.96	1.85
Persons currently receiving food stamps																			
1-3 years	2.2	4.4	5.0	5.4	6.0	7.2	8.6	9.4	10.1	11.1	0.12	0.11	0.11	0.11	0.11	0.14	0.18	0.21	0.26
4-8 years	4.0	7.0	7.5	7.9	8.6	9.9	11.4	12.3	13.0	14.0	0.18	0.19	0.20	0.23	0.29	0.34	0.36	0.38	0.39
9-13 years	7.0	7.1	7.9	8.5	9.3	11.1	13.1	14.2	15.0	16.3	0.20	0.21	0.22	0.24	0.28	0.34	0.37	0.40	0.45
14-18 years	8.5	7.3	8.1	8.7	9.7	12.0	14.9	16.8	18.2	20.6	0.28	0.32	0.34	0.39	0.51	0.70	0.85	0.98	1.22
19-30 years	9.4	9.1	10.1	10.9	12.0	14.4	17.6	19.8	21.5	24.4	0.43	0.45	0.46	0.48	0.54	0.68	0.86	1.07	1.55
31-50 years	9.4	7.1	8.2	9.0	10.4	13.9	19.6	24.2	28.3	36.1	0.28	0.35	0.42	0.57	1.01	1.91	2.77	3.66	5.76
51-70 years	9.4	6.4	7.5	8.3	9.5	12.4	16.2	18.7	20.6	23.8	0.65	0.70	0.75	0.85	1.16	1.65	1.98	2.22	2.61
71 + years	9.4	4.6	5.3	5.9	6.8	9.0	11.8	13.8	15.2	17.8	0.29	0.31	0.32	0.36	0.56	0.94	1.21	1.45	2.01
Income-eligible, food stamp nonparticipants																			
1-3 years	2.2	4.5	5.0	5.4	5.9	7.1	8.5	9.4	10.0	11.1	0.14	0.16	0.16	0.17	0.19	0.24	0.30	0.35	0.45
4-8 years	4.0	5.7	6.4	6.9	7.7	9.6	12.0	13.6	14.8	16.8	0.18	0.22	0.24	0.27	0.37	0.53	0.64	0.76	0.99
9-13 years	7.0	8.6	9.3	9.8	10.6	12.2	14.0	14.9	15.6	16.7	0.27	0.28	0.29	0.32	0.37	0.45	0.51	0.55	0.64
14-18 years	8.5	6.4	7.5	8.3	9.6	12.6	16.4	18.7	20.4	23.3	0.39	0.41	0.42	0.47	0.60	0.67	0.75	0.85	1.12
19-30 years	9.4	8.4	9.6	10.5	11.9	14.9	18.6	20.9	22.6	25.4	0.28	0.30	0.32	0.36	0.46	0.65	0.76	0.85	0.97
31-50 years	9.4	9.0	10.2	11.0	12.4	15.4	19.1	21.4	23.1	25.9	0.36	0.42	0.47	0.56	0.78	1.08	1.30	1.47	1.79
51-70 years	9.4	6.2	7.1	7.7	8.7	10.7	13.2	14.8	16.1	18.1	0.18	0.19	0.20	0.21	0.28	0.41	0.50	0.58	0.74
71 + years	9.4	4.9	5.6	6.1	6.9	8.5	10.8	12.3	13.5	15.6	0.13	0.13	0.14	0.16	0.24	0.40	0.54	0.65	0.89
Higher-income, food stamp nonparticipants																			
1-3 years	2.2	4.5	5.0	5.4	5.9	6.9	8.2	8.9	9.5	10.4	0.09	0.09	0.09	0.09	0.10	0.13	0.15	0.17	0.20
4-8 years	4.0	5.7	6.4	6.8	7.5	9.0	10.7	11.9	12.7	14.1	0.14	0.14	0.14	0.15	0.16	0.20	0.24	0.28	0.36
9-13 years	7.0	8.1	8.8	9.3	10.1	11.7	13.6	14.7	15.6	16.9	0.16	0.17	0.17	0.17	0.20	0.30	0.39	0.47	0.63
14-18 years	8.5	9.9	10.8	11.5	12.6	15.2	18.9	21.6	23.8	27.8	0.30	0.33	0.35	0.40	0.56	1.00	1.52	2.07	3.31
19-30 years	9.4	9.6	10.7	11.4	12.6	15.0	18.0	19.8	21.1	23.3	0.22	0.23	0.23	0.25	0.28	0.33	0.38	0.42	0.50
31-50 years	9.4	8.6	9.6	10.3	11.5	13.9	17.0	18.9	20.3	22.7	0.09	0.10	0.10	0.11	0.14	0.20	0.25	0.30	0.42
51-70 years	9.4	7.9	8.8	9.5	10.7	13.3	16.7	19.0	20.9	24.2	0.12	0.12	0.13	0.13	0.17	0.28	0.39	0.51	0.83
71 + years	9.4	6.2	7.0	7.7	8.7	11.1	14.8	17.7	20.4	25.8	0.12	0.12	0.12	0.14	0.21	0.50	0.90	1.38	2.62

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR is specified for particular gender-age groups, but is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-25—Distribution of usual zinc intake in milligrams — Continued

Female

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	2.2	4.1	4.6	4.9	5.4	6.4	7.7	8.5	9.1	10.0	0.06	0.06	0.06	0.06	0.09	0.13	0.16	0.18	0.21
4-8 years	4.0	5.3	5.9	6.2	6.8	8.0	9.5	10.4	11.0	12.1	0.08	0.08	0.08	0.09	0.10	0.13	0.15	0.16	0.19
9-13 years	7.0	5.8	6.4	6.9	7.6	9.2	11.2	12.5	13.5	15.2	0.10	0.10	0.10	0.11	0.14	0.22	0.32	0.43	0.72
14-18 years	7.5	5.4	6.1	6.6	7.3	8.9	10.8	12.1	13.1	14.7	0.14	0.14	0.15	0.16	0.18	0.29	0.42	0.53	0.71
19-30 years	6.8	6.2	6.8	7.3	8.0	9.6	11.4	12.5	13.3	14.5	0.08	0.09	0.09	0.10	0.12	0.16	0.19	0.21	0.24
31-50 years	6.8	5.7	6.3	6.8	7.6	9.3	11.4	12.8	13.8	15.7	0.06	0.06	0.06	0.07	0.09	0.13	0.19	0.24	0.36
51-70 years	6.8	5.3	5.9	6.3	7.1	8.6	10.7	12.1	13.2	15.1	0.06	0.07	0.07	0.08	0.11	0.16	0.21	0.28	0.46
71 + years	6.8	4.6	5.2	5.7	6.4	8.1	10.2	11.5	12.6	14.4	0.07	0.07	0.08	0.09	0.12	0.18	0.22	0.27	0.36
Persons currently receiving food stamps																			
1-3 years	2.2	4.5	5.0	5.3	5.8	6.8	8.0	8.8	9.4	10.3	0.10	0.11	0.12	0.15	0.20	0.28	0.33	0.37	0.43
4-8 years	4.0	5.4	6.0	6.4	7.0	8.3	9.9	10.8	11.6	12.8	0.14	0.14	0.14	0.15	0.19	0.27	0.30	0.33	0.37
9-13 years	7.0	5.2	6.1	6.7	7.7	9.8	12.4	14.1	15.3	17.3	0.26	0.28	0.29	0.31	0.39	0.51	0.58	0.63	0.71
14-18 years	7.5	6.5	7.2	7.7	8.5	10.1	12.1	13.3	14.1	15.5	0.23	0.24	0.24	0.26	0.30	0.36	0.39	0.42	0.47
19-30 years	6.8	5.4	6.2	6.8	7.9	10.1	12.8	14.5	15.8	18.0	0.16	0.17	0.18	0.21	0.32	0.50	0.62	0.72	0.90
31-50 years	6.8	4.4	5.1	5.7	6.5	8.4	10.8	12.3	13.5	15.5	0.16	0.15	0.15	0.16	0.20	0.29	0.36	0.42	0.53
51-70 years	6.8	5.2	5.8	6.2	6.8	8.3	10.0	11.1	11.8	13.0	0.18	0.20	0.21	0.24	0.33	0.44	0.51	0.55	0.62
71 + years	6.8	4.0	4.5	4.8	5.5	6.9	8.8	10.1	11.2	13.0	0.15	0.16	0.18	0.21	0.32	0.50	0.64	0.75	0.96
Income-eligible, food stamp nonparticipants																			
1-3 years	2.2	4.1	4.5	4.8	5.4	6.6	8.2	9.2	10.0	11.3	0.13	0.14	0.15	0.17	0.22	0.30	0.36	0.43	0.55
4-8 years	4.0	5.8	6.3	6.8	7.4	8.7	10.2	11.2	11.9	13.1	0.18	0.16	0.16	0.15	0.18	0.25	0.30	0.34	0.41
9-13 years	7.0	7.3	7.6	7.8	8.2	8.8	9.5	9.9	10.2	10.6	0.21	0.22	0.22	0.23	0.25	0.28	0.30	0.31	0.34
14-18 years	7.5	7.0	7.5	7.8	8.3	9.2	10.2	10.8	11.2	11.8	0.35	0.36	0.37	0.38	0.41	0.44	0.46	0.47	0.49
19-30 years	6.8	6.0	6.6	7.0	7.7	9.2	10.8	11.8	12.6	13.7	0.19	0.20	0.21	0.23	0.26	0.29	0.32	0.34	0.38
31-50 years	6.8	5.2	5.9	6.4	7.2	9.0	11.2	12.5	13.6	15.2	0.17	0.18	0.19	0.21	0.27	0.39	0.47	0.55	0.69
51-70 years	6.8	4.3	4.9	5.4	6.2	8.2	10.9	12.8	14.4	17.2	0.23	0.25	0.27	0.30	0.41	0.67	0.93	1.18	1.70
71 + years	6.8	3.9	4.5	4.9	5.6	7.3	9.8	11.4	12.8	15.1	0.12	0.12	0.12	0.14	0.22	0.38	0.48	0.58	0.77
Higher-income, food stamp nonparticipants																			
1-3 years	2.2	4.1	4.6	4.9	5.3	6.3	7.4	8.1	8.6	9.5	0.10	0.09	0.09	0.09	0.11	0.16	0.18	0.20	0.24
4-8 years	4.0	5.2	5.7	6.0	6.6	7.7	9.1	9.9	10.5	11.5	0.10	0.11	0.11	0.12	0.14	0.17	0.20	0.21	0.25
9-13 years	7.0	6.0	6.5	7.0	7.7	9.2	11.3	12.6	13.7	15.5	0.14	0.14	0.14	0.15	0.20	0.36	0.54	0.74	1.21
14-18 years	7.5	4.9	5.5	6.0	6.8	8.4	10.4	11.7	12.6	14.2	0.15	0.16	0.17	0.18	0.19	0.26	0.37	0.50	0.83
19-30 years	6.8	6.5	7.1	7.5	8.2	9.5	11.1	12.1	12.8	13.9	0.11	0.12	0.13	0.15	0.20	0.24	0.26	0.28	0.30
31-50 years	6.8	5.9	6.6	7.1	7.8	9.4	11.5	12.8	13.9	15.8	0.07	0.07	0.07	0.08	0.10	0.15	0.21	0.28	0.43
51-70 years	6.8	5.5	6.1	6.5	7.3	8.8	10.8	12.2	13.2	15.0	0.07	0.07	0.08	0.09	0.12	0.18	0.25	0.34	0.56
71 + years	6.8	4.9	5.5	5.9	6.7	8.3	10.5	11.9	13.0	14.9	0.08	0.09	0.10	0.12	0.16	0.22	0.29	0.36	0.51

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR is specified for particular gender-age groups, but is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-25—Distribution of usual zinc intake in milligrams — Continued

Both sexes

	EAR (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	na	4.3	4.8	5.1	5.6	6.7	8.0	8.8	9.4	10.4	0.04	0.04	0.04	0.04	0.05	0.08	0.09	0.10	0.12
4-8 years	na	5.6	6.2	6.6	7.2	8.6	10.3	11.4	12.1	13.4	0.06	0.06	0.06	0.07	0.08	0.10	0.12	0.14	0.17
9-13 years	na	6.5	7.3	7.8	8.6	10.4	12.4	13.8	14.8	16.7	0.07	0.08	0.08	0.09	0.10	0.14	0.21	0.29	0.49
14-18 years	na	6.1	7.0	7.7	8.8	11.2	14.5	16.8	18.7	22.2	0.12	0.14	0.15	0.17	0.20	0.32	0.49	0.70	1.19
19-30 years	na	6.5	7.5	8.2	9.4	11.9	15.0	17.0	18.5	20.9	0.07	0.07	0.08	0.10	0.14	0.19	0.23	0.26	0.31
31-50 years	na	6.2	7.1	7.8	8.9	11.4	14.6	16.8	18.5	21.5	0.05	0.05	0.05	0.06	0.08	0.13	0.18	0.22	0.31
51-70 years	na	5.7	6.5	7.1	8.1	10.4	13.5	15.6	17.3	20.3	0.06	0.06	0.06	0.07	0.09	0.14	0.21	0.30	0.53
71 + years	na	4.8	5.5	6.1	7.0	9.0	11.7	13.7	15.4	18.7	0.06	0.06	0.06	0.07	0.10	0.15	0.23	0.34	0.67
Persons currently receiving food stamps																			
1-3 years	na	4.4	4.9	5.3	5.8	7.0	8.4	9.2	9.9	10.9	0.07	0.07	0.07	0.08	0.10	0.14	0.17	0.20	0.24
4-8 years	na	6.1	6.7	7.1	7.7	9.0	10.6	11.6	12.3	13.3	0.12	0.13	0.14	0.16	0.22	0.28	0.30	0.32	0.35
9-13 years	na	6.0	6.8	7.4	8.4	10.4	12.8	14.3	15.3	17.0	0.17	0.18	0.18	0.19	0.22	0.28	0.36	0.40	0.44
14-18 years	na	7.2	7.9	8.4	9.2	11.0	13.1	14.4	15.5	17.1	0.18	0.19	0.20	0.22	0.28	0.36	0.41	0.46	0.56
19-30 years	na	5.8	6.7	7.5	8.7	11.3	14.6	16.7	18.4	21.2	0.18	0.20	0.22	0.25	0.33	0.42	0.51	0.61	0.84
31-50 years	na	4.8	5.7	6.4	7.5	10.1	13.9	16.9	19.4	24.5	0.14	0.14	0.14	0.17	0.36	0.68	1.03	1.41	2.37
51-70 years	na	5.1	5.9	6.4	7.3	9.5	12.3	14.2	15.6	18.0	0.19	0.22	0.26	0.33	0.48	0.68	0.82	0.93	1.14
71 + years	na	4.4	5.0	5.4	6.1	7.6	9.6	11.0	12.0	13.8	0.14	0.16	0.18	0.23	0.38	0.55	0.64	0.72	0.84
Income-eligible, food stamp nonparticipants																			
1-3 years	na	4.2	4.7	5.0	5.6	6.9	8.4	9.3	10.0	11.2	0.11	0.12	0.12	0.13	0.16	0.21	0.25	0.29	0.36
4-8 years	na	5.7	6.4	6.8	7.5	9.1	11.1	12.4	13.4	15.1	0.15	0.15	0.15	0.16	0.22	0.35	0.42	0.47	0.57
9-13 years	na	7.3	7.9	8.3	9.0	10.4	12.0	12.9	13.5	14.5	0.18	0.19	0.20	0.21	0.25	0.30	0.34	0.37	0.43
14-18 years	na	5.5	6.4	7.1	8.2	10.5	13.4	15.2	16.5	18.7	0.27	0.28	0.29	0.31	0.39	0.45	0.48	0.52	0.63
19-30 years	na	6.0	7.0	7.8	9.1	11.8	15.2	17.4	19.0	21.6	0.19	0.21	0.22	0.24	0.29	0.40	0.51	0.59	0.69
31-50 years	na	5.9	6.9	7.6	8.8	11.5	15.2	17.7	19.6	23.0	0.16	0.18	0.19	0.22	0.33	0.55	0.76	0.93	1.28
51-70 years	na	4.8	5.5	6.1	7.1	9.2	12.1	14.1	15.6	18.4	0.18	0.20	0.20	0.23	0.30	0.48	0.68	0.86	1.22
71 + years	na	4.1	4.7	5.2	5.9	7.7	10.0	11.6	12.9	15.1	0.10	0.10	0.10	0.11	0.17	0.28	0.36	0.43	0.56
Higher-income, food stamp nonparticipants																			
1-3 years	na	4.3	4.8	5.1	5.6	6.6	7.8	8.6	9.1	10.0	0.07	0.07	0.07	0.07	0.08	0.10	0.12	0.13	0.16
4-8 years	na	5.4	6.0	6.4	7.1	8.4	10.0	11.0	11.8	13.0	0.09	0.09	0.09	0.09	0.09	0.12	0.15	0.18	0.23
9-13 years	na	6.6	7.3	7.9	8.7	10.4	12.5	13.9	15.1	17.2	0.10	0.10	0.11	0.12	0.12	0.20	0.32	0.44	0.73
14-18 years	na	6.0	7.0	7.7	8.8	11.3	14.7	17.3	19.5	23.6	0.14	0.16	0.18	0.21	0.27	0.43	0.65	0.93	1.75
19-30 years	na	6.9	7.8	8.5	9.7	12.1	15.1	17.0	18.3	20.6	0.09	0.10	0.11	0.12	0.16	0.22	0.26	0.30	0.37
31-50 years	na	6.4	7.3	8.0	9.1	11.4	14.5	16.6	18.2	20.9	0.06	0.06	0.06	0.07	0.09	0.14	0.18	0.22	0.32
51-70 years	na	6.0	6.8	7.4	8.4	10.8	13.9	16.0	17.7	20.9	0.06	0.07	0.07	0.08	0.10	0.17	0.26	0.36	0.64
71 + years	na	5.1	5.9	6.4	7.3	9.5	12.4	14.6	16.5	20.3	0.06	0.07	0.08	0.09	0.13	0.22	0.35	0.53	1.04

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na EAR is specified for particular gender-age groups, but is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-26—Mean usual intake of calcium in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
1-3 years	3,309	836	7.5	1,113	799	16.8	675	849	22.4	1,315	› 842	9.7
4-8 years	3,448	928	10.3	1,068	888	17.0	712	›››1,022	32.0	1,470	921	13.5
9-13 years	2,457	980	12.0	663	932	25.2	538	932	29.1	1,113	› 1,007	15.3
14-18 years	1,938	978	19.0	485	903	30.6	431	918	32.7	871	› 995	26.5
19-30 years	4,103	937	11.4	756	826	24.2	962	›› 941	30.4	2,078	›››960	15.6
31-50 years	5,588	851	6.8	831	775	33.4	935	836	27.8	3,469	›› 864	7.5
51-70 years	4,019	768	8.4	453	653	34.6	687	679	23.6	2,533	›››785	9.6
71 + years	2,623	711	6.7	239	625	16.5	571	633	13.9	1,525	›››740	7.6
Total, age adjusted	27,485	862	3.7	5,608	779	13.2	5,511	›› 834	11.6	14,374	›››878	4.6
Males												
1-3 years	1,641	856	9.6	585	802	17.3	328	872	34.5	630	›› 868	13.0
4-8 years	1,707	995	16.9	500	912	25.0	346	› 1,087	63.5	756	›› 1,004	20.0
9-13 years	1,219	1,086	18.0	338	990	40.9	256	1,031	26.0	555	›› 1,127	22.2
14-18 years	909	1,172	30.9	217	938	36.4	203	› 1,073	49.0	403	›››1,232	40.0
19-30 years	1,902	1,104	20.6	241	1,000	42.8	483	› 1,154	44.8	1,012	› 1,117	26.6
31-50 years	2,533	990	11.1	281	1,046	75.2	437	965	47.4	1,656	996	12.1
51-70 years	1,942	890	12.7	183	661	72.8	324	738	40.2	1,284	›››916	14.9
71 + years	1,255	787	10.6	106	674	25.9	232	679	19.8	798	›››811	14.1
Total, age adjusted	13,108	988	6.1	2,451	905	28.1	2,609	948	19.1	7,094	›››1,007	7.4
Females												
1-3 years	1,668	816	11.2	528	795	28.4	347	834	24.7	685	817	13.0
4-8 years	1,741	854	9.5	568	868	17.4	366	› 959	30.9	714	› 819	14.1
9-13 years	1,238	870	13.5	325	877	32.0	282	830	37.2	558	879	19.9
14-18 years	1,029	786	15.3	268	882	49.6	228	799	35.4	468	› 755	20.4
19-30 years	2,201	779	11.7	515	751	24.3	479	732	29.4	1,066	799	14.4
31-50 years	3,055	719	7.0	550	604	19.1	–	–	–	1,813	›››734	7.4
51-70 years	2,077	661	7.8	270	648	34.1	363	630	29.1	1,249	662	8.7
71 + years	1,368	659	10.7	133	603	25.2	339	616	18.3	727	›› 681	12.5
Total, age adjusted	14,377	743	3.8	3,157	703	10.7	2,902	733	12.9	7,280	›››749	4.5

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-27—Mean usual intake of calcium as a percent of Adequate Intake (AI)

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent of AI	Standard error	Sample size	Percent of AI	Standard error	Sample size	Percent of AI	Standard error	Sample size	Percent of AI	Standard error
Both sexes												
1-3 years	3,309	167.3	1.50	1,113	159.9	3.36	675	169.8	4.48	1,315	› 168.4	1.94
4-8 years	3,448	116.0	1.29	1,068	111.0	2.12	712	››› 127.7	4.00	1,470	115.1	1.69
9-13 years	2,457	75.4	0.92	663	71.7	1.94	538	71.7	2.24	1,113	› 77.4	1.18
14-18 years	1,938	75.2	1.46	485	69.5	2.35	431	70.6	2.52	871	› 76.6	2.04
19-30 years	4,103	93.8	1.14	756	82.6	2.43	962	›› 94.1	3.05	2,078	››› 96.0	1.56
31-50 years	5,588	85.1	0.68	831	77.5	3.34	935	83.6	2.78	3,469	›› 86.4	0.75
51-70 years	4,019	64.0	0.70	453	54.4	2.88	687	56.5	1.97	2,533	››› 65.4	0.80
71 + years	2,623	59.2	0.56	239	52.1	1.38	571	52.7	1.16	1,525	››› 61.7	0.63
Total, age adjusted	27,485	81.1	0.35	5,608	73.3	1.24	5,511	›› 78.6	1.09	14,374	››› 82.7	0.44
Males												
1-3 years	1,641	171.2	1.92	585	160.4	3.45	328	174.4	6.89	630	›› 173.5	2.59
4-8 years	1,707	124.4	2.11	500	114.0	3.12	346	› 135.9	7.94	756	›› 125.5	2.50
9-13 years	1,219	83.5	1.38	338	76.1	3.14	256	79.3	2.00	555	›› 86.7	1.71
14-18 years	909	90.2	2.38	217	72.2	2.80	203	› 82.5	3.77	403	››› 94.8	3.08
19-30 years	1,902	110.4	2.06	241	100.0	4.28	483	› 115.4	4.48	1,012	› 111.7	2.66
31-50 years	2,533	99.0	1.11	281	104.6	7.52	437	96.6	4.74	1,656	99.6	1.21
51-70 years	1,942	74.2	1.06	183	55.1	6.07	324	61.5	3.35	1,284	››› 76.3	1.24
71 + years	1,255	65.6	0.89	106	56.2	2.16	232	56.6	1.65	798	››› 67.6	1.18
Total, age adjusted	13,108	93.1	0.58	2,451	85.2	2.64	2,609	89.3	1.80	7,094	››› 94.9	0.70
Females												
1-3 years	1,668	163.2	2.24	528	158.9	5.67	347	166.8	4.94	685	163.4	2.61
4-8 years	1,741	106.7	1.19	568	108.5	2.17	366	› 119.8	3.86	714	› 102.3	1.76
9-13 years	1,238	67.0	1.04	325	67.4	2.46	282	63.9	2.86	558	67.6	1.53
14-18 years	1,029	60.4	1.17	268	67.8	3.81	228	61.4	2.72	468	› 58.1	1.57
19-30 years	2,201	77.9	1.17	515	75.0	2.43	479	73.2	2.94	1,066	79.9	1.45
31-50 years	3,055	71.9	0.70	550	60.4	1.91	–	–	–	1,813	››› 73.4	0.74
51-70 years	2,077	55.1	0.65	270	54.0	2.84	363	52.5	2.42	1,249	55.1	0.72
71 + years	1,368	54.9	0.89	133	50.2	2.10	339	51.3	1.52	727	›› 56.8	1.04
Total, age adjusted	14,377	70.0	0.35	3,157	66.2	1.01	2,902	69.0	1.22	7,280	››› 70.5	0.42

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-28—Distribution of usual calcium intake in milligrams

Male

	AI (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	500	432	507	561	647	825	1,030	1,154	1,244	1,387	7.73	8.17	8.54	9.10	9.98	11.40	13.10	14.80	18.20
4-8 years	800	567	649	707	794	965	1,161	1,284	1,375	1,523	13.30	13.20	13.20	13.40	14.40	19.20	24.60	29.80	40.00
9-13 years	1,300	625	711	772	866	1,058	1,275	1,404	1,497	1,643	15.90	16.10	16.10	16.10	16.90	21.20	25.00	28.00	32.70
14-18 years	1,300	535	641	719	845	1,117	1,439	1,634	1,775	1,998	20.00	22.00	23.70	26.60	32.30	38.20	41.80	44.50	49.50
19-30 years	1,000	549	640	708	817	1,051	1,333	1,506	1,634	1,839	11.90	12.90	13.80	15.50	19.90	26.80	32.30	36.90	45.30
31-50 years	1,000	458	537	597	697	921	1,206	1,390	1,528	1,757	6.34	7.04	7.39	7.74	9.17	14.30	19.20	23.50	31.30
51-70 years	1,200	385	459	515	609	823	1,097	1,274	1,406	1,624	6.58	6.86	7.16	7.82	9.71	13.60	18.30	24.10	39.60
71 + years	1,200	352	415	461	539	723	966	1,122	1,240	1,437	5.06	5.22	5.64	6.67	9.85	14.70	18.10	21.70	29.20
Persons currently receiving food stamps																			
1-3 years	500	378	453	508	597	780	980	1,095	1,177	1,306	13.60	15.30	16.30	17.20	18.70	20.40	21.00	21.50	22.40
4-8 years	800	602	665	709	776	905	1,038	1,114	1,167	1,250	21.20	22.20	22.80	23.90	25.80	27.60	29.10	30.50	33.10
9-13 years	1,300	536	618	678	773	968	1,182	1,304	1,389	1,518	33.80	35.10	36.10	37.90	42.20	46.30	48.20	49.70	52.50
14-18 years	1,300	405	484	542	636	846	1,132	1,334	1,496	1,783	25.50	26.70	26.80	26.30	29.00	45.50	61.60	77.10	110.00
19-30 years	1,000	447	532	596	700	934	1,233	1,417	1,549	1,759	30.50	32.70	33.90	36.20	43.40	52.40	59.20	65.60	79.90
31-50 years	1,000	391	467	528	638	919	1,331	1,609	1,816	2,140	21.30	27.70	33.50	43.70	68.90	112.00	138.00	153.00	167.00
51-70 years	1,200	223	284	330	406	578	812	982	1,123	1,381	24.40	24.20	23.90	25.80	49.90	102.00	150.00	194.00	267.00
71 + years	1,200	349	409	452	520	658	811	899	960	1,056	22.40	22.50	22.60	22.90	25.30	32.10	37.20	40.90	47.20
Income-eligible, food stamp nonparticipants																			
1-3 years	500	394	469	527	621	825	1,068	1,218	1,329	1,512	17.00	19.30	21.10	24.10	31.60	45.20	55.80	64.70	81.00
4-8 years	800	564	652	714	809	1,012	1,279	› 1,459	› 1,601	›› 1,849	25.70	27.70	29.10	31.10	45.00	91.00	116.00	134.00	174.00
9-13 years	1,300	››› 725	››› 792	›› 836	900	1,022	1,154	1,230	1,284	1,367	27.90	27.10	26.70	26.20	25.50	28.10	30.20	31.90	35.00
14-18 years	1,300	480	570	638	751	1,002	1,318	1,517	1,665	1,906	27.10	33.20	37.40	43.60	52.80	59.30	64.40	69.20	79.00
19-30 years	1,000	›› 603	›› 695	›› 764	›› 873	› 1,104	1,378	1,546	1,671	1,873	28.70	31.10	32.90	35.80	42.80	55.80	65.20	72.50	84.70
31-50 years	1,000	412	492	553	656	881	1,175	1,376	1,534	1,806	26.20	30.30	33.50	38.10	44.80	55.10	66.10	77.50	103.00
51-70 years	1,200	295	353	399	480	677	929	1,086	1,205	1,398	14.30	17.60	20.70	25.30	35.80	54.10	69.50	81.10	98.70
71 + years	1,200	› 266	› 328	376	457	642	864	994	1,084	1,220	13.80	16.20	17.70	19.90	23.30	24.20	26.30	29.70	38.70
Higher-income, food stamp nonparticipants																			
1-3 years	500	››› 463	››› 535	››› 587	›› 669	838	1,033	1,152	1,238	1,375	10.80	10.60	10.80	11.40	13.40	16.20	18.30	20.10	23.40
4-8 years	800	558	642	702	795	982	››› 1,189	››› 1,309	››› 1,394	››› 1,526	17.80	16.90	16.80	17.40	20.00	23.10	25.90	28.50	33.60
9-13 years	1,300	640	727	790	889	1,094	1,328	› 1,469	› 1,570	› 1,731	20.00	19.80	19.70	19.70	20.90	25.70	30.50	35.00	44.00
14-18 years	1,300	››› 593	››› 704	››› 786	››› 916	››› 1,188	››› 1,500	››› 1,685	›› 1,817	2,022	30.00	31.50	32.70	35.10	41.10	48.50	52.80	55.80	60.80
19-30 years	1,000	537	631	701	813	1,058	1,354	1,540	1,677	1,901	14.80	16.10	17.20	19.10	23.70	31.90	40.00	48.10	65.50
31-50 years	1,000	›› 475	› 554	613	712	932	1,207	1,383	1,515	1,734	6.24	6.74	7.18	7.99	10.40	15.50	20.30	24.70	33.40
51-70 years	1,200	››› 417	››› 491	››› 547	››› 640	››› 850	› 1,120	1,293	1,423	1,637	7.10	7.40	7.73	8.41	10.90	16.40	22.60	29.90	48.60
71 + years	1,200	374	435	481	560	› 746	››› 993	››› 1,154	››› 1,275	››› 1,472	6.21	6.69	7.26	8.55	12.90	19.90	24.70	28.60	36.30

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na Adequate Intake (AI) differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-28—Distribution of usual calcium intake in milligrams — Continued

Female

	AI (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	500	412	483	535	617	789	985	1,101	1,184	1,313	6.88	7.15	7.38	7.85	9.66	13.70	17.40	20.60	27.00
4-8 years	800	497	564	612	686	837	1,003	1,099	1,166	1,269	8.25	8.58	8.84	9.18	9.90	11.90	13.20	14.00	15.30
9-13 years	1,300	456	529	583	668	845	1,045	1,161	1,242	1,370	12.30	12.90	13.30	13.70	14.20	14.70	15.30	16.10	18.20
14-18 years	1,300	387	454	504	584	753	952	1,072	1,160	1,298	10.10	11.10	11.60	12.00	13.70	19.50	23.60	26.40	30.40
19-30 years	1,000	378	443	491	570	742	948	1,074	1,165	1,310	7.41	8.05	8.55	9.43	11.60	14.50	16.70	18.70	22.50
31-50 years	1,000	338	399	444	518	679	876	999	1,089	1,234	4.88	5.07	5.33	5.86	6.99	8.87	10.10	11.10	13.30
51-70 years	1,200	300	356	398	467	619	808	928	1,018	1,166	4.59	5.01	5.34	5.90	7.38	10.30	12.50	14.30	17.30
71 + years	1,200	277	336	381	454	617	819	944	1,036	1,184	6.08	6.52	6.93	7.72	10.10	14.00	16.70	18.90	22.90
Persons currently receiving food stamps																			
1-3 years	500	387	455	504	584	754	960	1,089	1,185	1,341	12.90	13.80	14.50	16.30	24.30	38.40	48.70	57.50	73.70
4-8 years	800	485	553	602	679	843	1,033	1,143	1,219	1,334	14.00	14.30	14.90	16.50	19.60	19.80	19.90	20.90	27.30
9-13 years	1,300	401	482	543	642	852	1,083	1,211	1,300	1,435	19.80	23.90	26.90	31.10	36.50	38.30	38.20	37.90	38.60
14-18 years	1,300	392	473	533	632	837	1,081	1,235	1,349	1,531	28.60	32.70	34.90	38.00	46.40	61.50	72.50	80.70	93.90
19-30 years	1,000	324	394	446	530	710	926	1,061	1,161	1,320	16.40	17.70	18.80	20.70	25.60	30.60	33.30	35.00	37.10
31-50 years	1,000	263	314	352	412	550	739	866	963	1,125	11.20	11.50	11.60	12.10	16.40	25.50	31.90	37.50	49.60
51-70 years	1,200	222	274	315	387	565	817	992	1,128	1,360	11.70	14.90	17.20	20.10	28.10	47.80	62.70	74.10	94.30
71 + years	1,200	274	319	356	422	575	750	853	926	1,038	12.10	13.20	15.10	19.50	26.00	33.40	40.40	45.20	50.70
Income-eligible, food stamp nonparticipants																			
1-3 years	500	› 459	› 526	575	652	809	989	1,099	1,178	1,301	19.00	20.80	21.80	23.20	24.80	28.50	32.40	35.60	39.90
4-8 years	800	››› 625	››› 687	››› 732	››› 803	› 948	1,102	1,186	1,244	1,328	20.60	21.90	23.20	25.70	31.90	37.60	40.10	42.00	45.60
9-13 years	1,300	402	475	529	615	796	1,008	1,136	1,228	1,376	23.40	25.90	27.90	31.30	37.70	45.00	50.30	54.70	62.40
14-18 years	1,300	488	545	586	650	782	929	1,014	› 1,074	› 1,167	22.00	23.30	24.40	26.60	33.10	43.00	50.10	55.60	64.80
19-30 years	1,000	387	446	489	558	704	876	980	1,056	1,175	16.30	19.00	21.00	23.70	28.40	36.30	40.60	43.60	48.50
31-50 years	1,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
51-70 years	1,200	235	290	332	401	564	793	945	1,058	1,241	13.80	14.80	15.50	17.10	25.20	40.00	50.40	58.90	75.20
71 + years	1,200	› 224	281	324	396	561	774	914	1,020	1,196	11.80	12.40	12.70	13.10	15.50	23.10	30.50	37.30	50.90
Higher-income, food stamp nonparticipants																			
1-3 years	500	415	488	541	625	795	986	1,096	1,174	1,294	9.72	9.91	10.20	10.90	12.70	15.40	17.50	19.50	23.70
4-8 years	800	464	529	576	651	803	967	› 1,061	›› 1,127	› 1,228	12.10	12.60	13.00	13.80	15.00	16.50	17.60	18.40	19.70
9-13 years	1,300	459	533	587	673	853	1,057	1,175	1,259	1,387	16.90	17.70	18.10	18.80	20.30	23.10	25.30	27.20	30.60
14-18 years	1,300	366	429	476	552	718	917	1,040	1,130	1,273	12.10	13.30	14.20	15.90	20.40	26.40	29.80	32.30	37.60
19-30 years	1,000	›› 394	› 460	› 508	588	761	969	1,096	1,187	1,332	10.30	10.90	11.40	12.30	14.50	17.70	20.40	22.80	27.40
31-50 years	1,000	››› 369	››› 429	››› 473	››› 545	››› 700	››› 886	››› 999	› 1,082	1,213	5.15	5.51	5.82	6.29	7.28	9.20	10.80	12.10	14.70
51-70 years	1,200	››› 320	››› 374	››› 415	››› 482	627	804	913	993	1,122	4.78	5.07	5.39	6.07	8.13	11.60	14.40	16.60	20.70
71 + years	1,200	295	356	401	476	640	842	967	1,059	› 1,206	5.80	6.91	7.73	9.05	12.30	16.80	19.50	21.60	26.20

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

na Adequate Intake (AI) differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-28—Distribution of usual calcium intake in milligrams — Continued

Both sexes

	AI (mg/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
1-3 years	na	421	494	547	631	806	1,008	1,129	1,217	1,355	4.32	4.66	4.91	5.41	7.07	9.76	12.10	14.30	18.40
4-8 years	na	528	603	657	740	904	1,088	1,198	1,280	1,411	7.69	8.03	8.28	8.64	9.63	12.30	14.80	17.30	22.70
9-13 years	na	520	602	663	757	952	1,171	1,299	1,391	1,536	9.99	10.20	10.30	10.70	11.60	13.50	15.50	17.40	21.00
14-18 years	na	402	491	559	671	918	1,220	1,406	1,541	1,757	9.71	10.80	11.70	13.50	18.60	25.20	29.00	31.70	36.70
19-30 years	na	422	503	563	663	883	1,152	1,319	1,442	1,641	4.58	5.48	6.25	7.63	10.80	15.30	19.00	22.20	28.20
31-50 years	na	372	442	495	584	786	1,044	1,211	1,338	1,549	3.76	4.24	4.62	5.17	5.85	7.80	10.40	13.00	18.50
51-70 years	na	324	388	437	519	707	950	1,107	1,225	1,419	3.76	4.24	4.60	5.17	6.87	9.99	12.90	16.20	25.30
71 + years	na	296	357	404	482	659	882	1,024	1,130	1,303	4.74	4.75	4.72	4.75	6.64	9.17	11.10	12.90	17.10
Persons currently receiving food stamps																			
1-3 years	na	376	450	503	588	766	974	1,100	1,191	1,337	9.80	11.20	12.00	13.00	15.90	20.60	24.40	28.20	36.90
4-8 years	na	543	608	655	727	872	1,032	1,123	1,187	1,285	13.00	13.80	14.50	15.70	17.80	19.40	20.20	20.90	23.20
9-13 years	na	448	532	594	694	904	1,140	1,274	1,368	1,512	18.90	20.30	21.30	23.10	27.20	30.60	31.60	32.50	34.90
14-18 years	na	374	456	519	620	832	1,104	1,291	1,436	1,678	20.30	22.00	22.80	23.90	27.10	37.90	47.60	55.80	71.50
19-30 years	na	321	400	458	552	763	1,037	1,210	1,337	1,538	13.50	15.20	16.70	19.50	25.40	31.10	34.80	37.30	41.60
31-50 years	na	287	346	391	467	666	970	1,183	1,350	1,634	9.80	10.00	10.80	14.10	27.90	46.10	61.30	75.40	99.70
51-70 years	na	222	276	318	391	568	817	993	1,132	1,376	9.19	10.90	12.20	14.30	24.90	49.40	68.50	85.00	115.00
71 + years	na	295	345	386	455	604	767	864	934	1,041	10.60	11.70	12.90	14.30	16.20	21.90	26.80	29.90	33.70
Income-eligible, food stamp nonparticipants																			
1-3 years	na	421	494	547	632	812	1,024	1,154	1,251	1,405	13.70	15.30	16.40	17.90	20.40	26.00	32.20	37.80	48.30
4-8 years	na	592	668	721	›804	››977	››1,188	››1,323	››1,426	››1,598	17.40	18.30	19.00	20.40	25.20	38.70	53.30	65.50	90.00
9-13 years	na	›››614	›››678	››723	791	923	1,062	›1,141	››1,196	›››1,282	24.30	25.30	26.00	26.90	28.90	32.30	34.80	36.90	40.40
14-18 years	na	414	493	553	650	867	1,131	1,293	1,411	1,598	16.00	18.10	20.10	23.80	32.80	43.00	48.80	53.00	59.50
19-30 years	na	›››446	›››524	›››583	›››678	››889	1,147	1,308	1,426	1,617	16.70	18.50	19.90	22.40	29.10	37.90	44.70	50.20	59.80
31-50 years	na	309	376	429	522	751	1,047	1,240	1,390	1,652	12.70	15.10	17.20	20.90	27.80	33.90	39.50	46.10	61.30
51-70 years	na	257	313	356	430	612	860	1,017	1,134	1,324	9.89	10.60	11.50	13.90	21.10	32.20	40.60	47.30	59.20
71 + years	na	›››228	››287	›333	409	582	798	936	1,040	››1,211	10.20	11.10	11.40	11.60	13.10	17.40	22.00	26.90	37.20
Higher-income, food stamp nonparticipants																			
1-3 years	na	›››438	›››510	›››563	››645	816	1,011	1,126	1,208	1,335	6.47	6.98	7.39	8.06	9.73	12.10	13.70	15.20	18.40
4-8 years	na	507	584	639	725	900	1,094	›1,206	››1,285	››1,407	11.00	11.10	11.30	11.80	13.50	16.30	18.30	20.00	23.10
9-13 years	na	››531	››615	››676	›773	974	1,204	1,340	1,438	1,594	12.60	12.60	12.60	12.80	14.10	17.90	21.40	24.50	30.70
14-18 years	na	407	499	568	682	934	1,241	1,432	1,571	1,794	12.70	14.40	16.00	18.90	26.50	35.90	41.00	44.30	49.20
19-30 years	na	›››432	›››514	›››575	›››677	›››902	››1,179	››1,351	›1,479	1,686	7.36	8.66	9.68	11.30	14.70	19.50	24.20	28.90	39.20
31-50 years	na	›››396	›››467	›››520	›››608	›››805	1,053	1,212	1,332	1,531	4.26	4.62	4.87	5.28	6.24	8.39	10.80	13.50	19.70
51-70 years	na	›››349	›››413	›››462	›››543	›››728	›964	1,116	1,230	1,417	3.65	4.31	4.79	5.59	7.88	11.80	15.50	19.80	31.10
71 + years	na	321	›383	››430	››508	›››686	›››912	›››1,057	›››1,166	›››1,344	4.26	4.24	4.25	4.68	7.24	10.80	13.40	15.80	20.40

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
na Adequate Intake (AI) differs for age and gender groups and is not applicable to pooled data.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Food intake does not account for vitamin/mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intake of Individuals (CSFII).*

Table D-29—Mean daily intake of milk (grams)

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-3 years	2,279	341.2	11.2	758	325.2	17.3	448	361.8	23.3	923	333.9	17.2
4-8 years	2,938	240.6	7.3	944	213.4	20.9	633	252.9	16.9	1,209	247.9	9.1
9-13 years	3,134	209.1	9.0	912	195.0	15.8	654	220.6	22.7	1,380	210.0	10.8
14-18 years	3,119	173.1	9.4	765	158.8	22.0	712	147.4	15.9	1,405	181.5	13.2
19-30 years	3,399	146.2	9.4	634	129.1	25.6	801	147.2	19.8	1,706	150.2	10.3
31-50 years	3,238	140.8	10.2	527	184.5	38.8	586	186.1	42.6	1,943	129.9	9.9
51-70 years	2,502	110.0	8.8	342	111.7	19.2	382	134.2	28.0	1,609	108.3	9.8
71 + years	1,798	121.4	9.2	197	169.3	42.2	253	148.7	31.7	1,209	113.0	10.0
Total, age adjusted	22,407	157.4	4.8	5,079	167.9	13.1	4,469	179.1	15.4	11,384	154.6	4.9
Male												
1-3 years	1,153	359.4	14.8	410	338.1	19.9	210	348.4	34.5	456	358.1	20.8
4-8 years	1,423	247.5	9.7	459	220.2	24.3	303	269.5	19.9	585	252.0	14.2
9-13 years	1,581	240.1	14.8	443	203.6	15.5	322	263.8	46.9	720	› 247.0	17.7
14-18 years	1,461	206.3	14.5	339	146.8	26.9	350	166.6	26.1	646	› 224.0	19.2
19-30 years	1,586	169.3	14.5	203	136.3	24.7	399	185.0	35.6	845	172.1	15.8
31-50 years	1,424	169.6	17.8	169	306.1 *	93.0	256	274.6 *	85.6	918	144.9	17.4
51-70 years	1,187	136.1	18.1	126	143.9	40.7	195	162.0	47.7	786	134.8	19.6
71 + years	820	159.7	16.8	72	200.2 *	92.4	116	165.7 *	62.4	573	155.9	19.3
Total, age adjusted	10,635	184.1	7.6	2,221	216.0	30.3	2,151	224.4	29.4	5,529	178.4	7.9
Female												
1-3 years	1,126	321.8	13.2	348	308.5	20.3	238	373.5	33.5	467	309.1	20.8
4-8 years	1,515	233.2	12.3	485	206.6	30.1	330	234.4	27.8	624	243.6	14.4
9-13 years	1,553	176.7	8.9	469	187.1	26.3	332	182.5	17.9	660	168.7	11.5
14-18 years	1,658	139.3	10.5	426	167.7	30.9	362	129.8	21.6	759	136.9	14.4
19-30 years	1,813	124.0	10.1	431	125.9	30.2	402	109.5	28.5	861	127.3	10.1
31-50 years	1,814	113.3	8.2	358	110.8	19.9	330	115.4	19.0	1,025	114.6	8.6
51-70 years	1,315	85.0	7.1	216	92.4	13.0	187	106.0	23.2	823	82.1	8.2
71 + years	978	86.1	8.0	125	152.2 *	46.8	137	132.6	30.6	636	71.6	7.9
Total, age adjusted	11,772	131.5	3.8	2,858	138.5	8.4	2,318	139.6	9.8	5,855	130.1	4.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-30—Mean number of 8-ounce servings of milk consumed per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-3 years	2,279	1.4	0.05	758	1.4	0.07	448	1.5	0.10	923	1.4	0.07
4-8 years	2,938	1.0	0.03	944	0.9	0.09	633	1.0	0.07	1,209	1.0	0.04
9-13 years	3,134	0.9	0.04	912	0.8	0.07	654	0.9	0.09	1,380	0.9	0.04
14-18 years	3,119	0.7	0.04	765	0.7	0.09	712	0.6	0.07	1,405	0.8	0.06
19-30 years	3,399	0.6	0.04	634	0.5	0.11	801	0.6	0.08	1,706	0.6	0.04
31-50 years	3,238	0.6	0.04	527	0.8	0.16	586	0.8	0.18	1,943	0.5	0.04
51-70 years	2,502	0.5	0.04	342	0.5	0.08	382	0.6	0.12	1,609	0.4	0.04
71 + years	1,798	0.5	0.04	197	0.7	0.18	253	0.6	0.13	1,209	0.5	0.04
Total, age adjusted	22,407	0.7	0.02	5,079	0.7	0.05	4,469	0.8	0.06	11,384	0.6	0.02
Male												
1-3 years	1,153	1.5	0.06	410	1.4	0.08	210	1.4	0.14	456	1.5	0.09
4-8 years	1,423	1.0	0.04	459	0.9	0.10	303	1.1	0.08	585	1.0	0.06
9-13 years	1,581	1.0	0.06	443	0.8	0.06	322	1.1	0.20	720	› 1.0	0.07
14-18 years	1,461	0.9	0.06	339	0.6	0.11	350	0.7	0.11	646	› 0.9	0.08
19-30 years	1,586	0.7	0.06	203	0.6	0.10	399	0.8	0.15	845	0.7	0.07
31-50 years	1,424	0.7	0.07	169	1.3 *	0.39	256	1.1 *	0.36	918	0.6	0.07
51-70 years	1,187	0.6	0.08	126	0.6	0.17	195	0.7	0.20	786	0.6	0.08
71 + years	820	0.7	0.07	72	0.8 *	0.38	116	0.7 *	0.26	573	0.6	0.08
Total, age adjusted	10,635	0.8	0.03	2,221	0.9	0.13	2,151	0.9	0.12	5,529	0.7	0.03
Female												
1-3 years	1,126	1.3	0.06	348	1.3	0.08	238	1.6	0.14	467	1.3	0.09
4-8 years	1,515	1.0	0.05	485	0.9	0.13	330	1.0	0.12	624	1.0	0.06
9-13 years	1,553	0.7	0.04	469	0.8	0.11	332	0.8	0.07	660	0.7	0.05
14-18 years	1,658	0.6	0.04	426	0.7	0.13	362	0.5	0.09	759	0.6	0.06
19-30 years	1,813	0.5	0.04	431	0.5	0.13	402	0.5	0.12	861	0.5	0.04
31-50 years	1,814	0.5	0.03	358	0.5	0.08	330	0.5	0.08	1,025	0.5	0.04
51-70 years	1,315	0.4	0.03	216	0.4	0.05	187	0.4	0.10	823	0.3	0.03
71 + years	978	0.4	0.03	125	0.6 *	0.19	137	0.6	0.13	636	0.3	0.03
Total, age adjusted	11,772	0.6	0.02	2,858	0.6	0.03	2,318	0.6	0.04	5,855	0.5	0.02

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-31—Mean daily intake of soft drinks (grams)

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-3 years	2,279	146.9	6.51	758	169.8	12.93	448	170.1	15.99	923	›› 131.4	8.81
4-8 years	2,938	252.8	10.59	944	258.8	14.67	633	287.8	27.63	1,209	243.9	15.46
9-13 years	3,134	354.3	10.12	912	331.7	39.43	654	355.9	27.14	1,380	364.7	15.63
14-18 years	3,119	653.1	20.40	765	675.1	66.54	712	553.9	42.63	1,405	665.4	21.21
19-30 years	3,399	636.8	19.68	634	620.4	55.05	801	654.9	47.27	1,706	637.5	25.99
31-50 years	3,238	523.2	20.64	527	552.7	44.13	586	517.1	51.84	1,943	524.2	24.63
51-70 years	2,502	441.0	20.34	342	498.3	69.47	382	406.2	32.14	1,609	441.0	22.92
71 + years	1,798	310.6	14.21	197	245.4	29.64	253	279.8	35.96	1,209	› 324.0	16.76
Total, age adjusted	22,407	470.4	11.30	5,079	482.8	25.68	4,469	459.0	19.46	11,384	472.4	13.55
Male												
1-3 years	1,153	150.0	6.16	410	171.8	17.43	210	196.5	20.09	456	› 127.0	7.76
4-8 years	1,423	261.0	12.95	459	260.5	22.95	303	263.4	38.56	585	264.4	21.07
9-13 years	1,581	389.0	18.56	443	370.0	68.48	322	413.6	38.38	720	394.0	20.53
14-18 years	1,461	744.3	28.81	339	711.5	107.43	350	670.9	69.87	646	763.1	31.09
19-30 years	1,586	726.3	25.51	203	590.6	100.02	399	740.1	76.16	845	745.0	35.18
31-50 years	1,424	620.5	35.16	169	662.6	88.83	256	527.2	90.93	918	633.4	39.57
51-70 years	1,187	466.0	30.66	126	658.4 *	156.37	195	405.1	45.22	786	463.6	33.44
71 + years	820	336.6	22.74	72	232.4 *	43.25	116	272.0	48.77	573	› 353.2	27.00
Total, age adjusted	10,635	531.9	16.05	2,221	545.2	47.96	2,151	487.3	34.17	5,529	541.0	18.77
Female												
1-3 years	1,126	143.6	10.52	348	167.2	19.38	238	147.1	23.01	467	135.8	13.44
4-8 years	1,515	244.2	11.59	485	257.2	20.73	330	315.2	22.12	624	222.3	14.13
9-13 years	1,553	318.0	15.27	469	296.4	35.18	332	304.8	32.85	660	332.1	21.77
14-18 years	1,658	560.2	28.18	426	647.8	91.64	362	› 445.8	47.17	759	563.1	23.14
19-30 years	1,813	551.0	22.25	431	633.9	64.03	402	570.0	58.29	861	524.8	24.92
31-50 years	1,814	430.6	21.19	358	486.0	46.60	330	509.1	55.47	1,025	413.0	22.38
51-70 years	1,315	417.1	22.12	216	402.5	42.26	187	407.4	42.57	823	418.7	27.85
71 + years	978	286.7	15.30	125	252.6 *	40.10	137	287.2	42.74	636	295.9	16.17
Total, age adjusted	11,772	411.1	10.37	2,858	443.0	25.72	2,318	432.8	21.13	5,855	401.8	11.55

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-32—Mean number of 8-ounce servings of soft drinks consumed per day

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
1-3 years	2,279	0.6	0.03	758	0.7	0.05	448	0.7	0.07	923	›› 0.6	0.04
4-8 years	2,938	1.0	0.04	944	1.1	0.06	633	1.2	0.12	1,209	1.0	0.06
9-13 years	3,134	1.5	0.04	912	1.4	0.16	654	1.5	0.11	1,380	1.5	0.07
14-18 years	3,119	2.7	0.08	765	2.8	0.28	712	2.3	0.18	1,405	2.8	0.09
19-30 years	3,399	2.6	0.08	634	2.6	0.23	801	2.7	0.20	1,706	2.7	0.11
31-50 years	3,238	2.2	0.09	527	2.3	0.18	586	2.2	0.22	1,943	2.2	0.10
51-70 years	2,502	1.8	0.08	342	2.1	0.29	382	1.7	0.13	1,609	1.8	0.10
71 + years	1,798	1.3	0.06	197	1.0	0.12	253	1.2	0.15	1,209	› 1.4	0.07
Total, age adjusted	22,407	2.0	0.05	5,079	2.0	0.11	4,469	1.9	0.08	11,384	2.0	0.06
Male												
1-3 years	1,153	0.6	0.03	410	0.7	0.07	210	0.8	0.08	456	› 0.5	0.03
4-8 years	1,423	1.1	0.05	459	1.1	0.10	303	1.1	0.16	585	1.1	0.09
9-13 years	1,581	1.6	0.08	443	1.5	0.29	322	1.7	0.16	720	1.6	0.09
14-18 years	1,461	3.1	0.12	339	3.0	0.45	350	2.8	0.29	646	3.2	0.13
19-30 years	1,586	3.0	0.11	203	2.5	0.42	399	3.1	0.32	845	3.1	0.15
31-50 years	1,424	2.6	0.15	169	2.8	0.37	256	2.2	0.38	918	2.6	0.16
51-70 years	1,187	1.9	0.13	126	2.7 *	0.65	195	1.7	0.19	786	1.9	0.14
71 + years	820	1.4	0.09	72	1.0 *	0.18	116	1.1	0.20	573	› 1.5	0.11
Total, age adjusted	10,635	2.2	0.07	2,221	2.3	0.20	2,151	2.0	0.14	5,529	2.2	0.08
Female												
1-3 years	1,126	0.6	0.04	348	0.7	0.08	238	0.6	0.10	467	0.6	0.06
4-8 years	1,515	1.0	0.05	485	1.1	0.09	330	1.3	0.09	624	0.9	0.06
9-13 years	1,553	1.3	0.06	469	1.2	0.15	332	1.3	0.14	660	1.4	0.09
14-18 years	1,658	2.3	0.12	426	2.7	0.38	362	› 1.9	0.20	759	2.4	0.10
19-30 years	1,813	2.3	0.09	431	2.6	0.27	402	2.4	0.24	861	2.2	0.10
31-50 years	1,814	1.8	0.09	358	2.0	0.19	330	2.1	0.23	1,025	1.7	0.09
51-70 years	1,315	1.7	0.09	216	1.7	0.18	187	1.7	0.18	823	1.7	0.12
71 + years	978	1.2	0.06	125	1.0 *	0.17	137	1.2	0.18	636	1.2	0.07
Total, age adjusted	11,772	1.7	0.04	2,858	1.8	0.11	2,318	1.8	0.09	5,855	1.7	0.05

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-33—Prevalence of dietary supplement use in the past month

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-3 years	3,863	45.6	1.4	1,237	34.0	2.5	755	33.6	2.7	1,608	›››53.5	1.9
4-8 years	3,959	41.7	2.0	1,203	23.6	2.5	797	› 34.7	5.0	1,708	›››49.2	2.1
9-13 years	2,677	28.6	1.8	722	12.2	2.3	568	›››29.8	3.9	1,219	›››32.1	2.5
14-18 years	2,130	25.3	1.8	516	14.8	2.6	458	19.1	3.2	977	›››28.5	2.1
19-30 years	4,560	36.0	1.4	804	28.8	3.2	1,050	24.2	3.0	2,342	›››41.0	1.8
31-50 years	6,207	40.6	1.6	909	21.4	2.3	1,001	› 28.0	2.5	3,862	›››43.9	1.8
51-70 years	4,711	46.4	1.2	525	31.1	3.8	802	› 42.3	2.9	2,948	›››48.5	1.5
71 + years	3,704	49.0	1.6	325	44.1	3.6	841	44.3	2.4	2,017	› 52.8	1.8
Total, age adjusted	31,811	39.9	0.8	6,241	25.8	1.3	6,272	›››31.6	1.4	16,681	›››43.8	0.9
Male												
1-3 years	1,897	46.0	1.8	646	35.3	3.6	362	35.9	4.1	768	›››53.6	2.4
4-8 years	1,977	44.1	2.5	566	23.9	3.6	388	36.8	7.6	883	›››51.2	2.7
9-13 years	1,329	28.4	2.6	364	14.1	3.6	272	› 26.8	4.6	609	›››32.3	3.4
14-18 years	1,005	23.1	2.5	238	6.5 *	2.4	212	11.3 *	2.9	455	›››27.5	3.4
19-30 years	2,152	29.8	1.7	263	25.3	6.6	530	19.0	3.3	1,159	33.9	2.1
31-50 years	2,855	34.6	1.8	317	17.3	3.2	471	22.5	2.9	1,870	›››36.8	1.8
51-70 years	2,275	40.2	1.4	213	21.1	5.3	378	› 39.1	5.3	1,495	›››41.8	1.6
71 + years	1,698	40.8	2.0	130	26.2	6.0	328	35.1	3.9	1,038	›› 43.8	2.2
Total, age adjusted	15,188	35.2	1.0	2,737	20.3	2.3	2,941	›› 27.1	1.9	8,277	›››38.5	1.0
Female												
1-3 years	1,966	45.2	1.8	591	32.4	3.7	393	31.7	3.9	840	›››53.4	2.4
4-8 years	1,982	39.0	2.4	637	23.4	2.9	409	› 32.3	4.7	825	›››46.9	3.3
9-13 years	1,348	28.9	2.3	358	10.3	2.8	296	›››32.8	5.3	610	›››31.9	3.5
14-18 years	1,125	27.5	2.4	278	21.4	4.8	246	24.9	4.9	522	29.6	2.5
19-30 years	2,408	42.1	1.8	541	30.5	3.1	520	29.4	4.0	1,183	›››48.5	2.4
31-50 years	3,352	46.3	1.8	592	24.1	2.8	530	32.6	4.4	1,992	›››51.0	2.0
51-70 years	2,436	52.0	1.6	312	36.2	4.5	424	44.9	3.0	1,453	›››55.0	2.1
71 + years	2,006	54.4	1.9	195	51.6	3.4	513	48.0	2.8	979	› 60.5	2.3
Total, age adjusted	16,623	44.1	0.9	3,504	28.8	1.4	3,331	›› 35.0	1.8	8,404	›››49.0	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-34—Number of dietary supplements taken by persons using dietary supplements in past month

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Number supplements used			Sample size	Number supplements used			Sample size	Number supplements used			Sample size	Number supplements used		
		One	Two	Three +		One	Two	Three +		One	Two	Three +		One	Two	Three +
Both sexes																
1-3 years	1,519	91.2	7.8	1.0 *	364	92.7	6.4	0.9 *	249	94.0	5.9	0.2 *	819	90.6	8.4	1.0 *
4-8 years	1,407	91.6	8.0	0.4 *	268	91.6	8.4	0.0	247	95.8	4.0	0.1 *	807	90.6	8.9	› 0.5 *
9-13 years	583	84.5	13.4	2.1 *	91	92.7	6.8	0.5 *	115	81.6	16.9	1.4 *	336	84.7	13.5	1.8 *
14-18 years	451	74.4	15.1	10.5	72	80.4	12.5	7.1 *	80	77.5	8.0	14.4 *	263	74.6	16.9	8.5
19-30 years	1,343	68.0	20.3	11.7	189	71.5	26.7	1.8 *	237	66.3	16.1	›››17.6	834	68.2	19.9	›››11.9
31-50 years	2,177	60.9	20.8	18.2	218	79.2	15.8	5.0 *	268	72.0	19.5	8.4	1,555	58.9	21.0	›››20.1
51-70 years	1,947	55.6	21.2	23.2	145	61.3	19.0	19.8	272	61.9	21.4	16.8	1,363	54.4	21.7	23.9
71 + years	1,705	56.6	24.7	18.8	125	72.7	14.3	13.0	351	63.9	22.6	13.5	1,012	52.5	26.8	› 20.8
Total, age adjusted	11,132	66.9	18.7	14.4	1,472	76.7	16.2	7.1	1,819	72.3	16.8	› 10.8	6,989	65.7	19.2	›››15.1
Male																
1-3 years	723	91.8	7.3	0.9 *	194	95.3	4.5	0.2 *	119	94.3	5.5	0.2 *	373	90.9	8.1	1.0 *
4-8 years	717	91.2	8.5	0.3 *	126	91.8	8.2	0.0	123	97.2	2.6	0.2 *	421	89.7	10.0	0.3 *
9-13 years	284	81.3	17.5	1.2 *	52	99.0	0.0	1.0 *	55	74.5	23.4	2.2 *	164	81.2	18.4	0.4 *
14-18 years	181	76.9	12.0	11.1 *	19	90.9	6.5	2.6 *	32	78.0	2.8	19.2 *	111	78.5	13.5	8.0 *
19-30 years	510	67.6	19.2	13.2	44	76.7	19.4	4.0 *	96	52.6	21.8	› 25.6 *	336	68.6	19.0	› 12.4
31-50 years	867	64.1	20.4	15.5	67	85.6	5.4	9.0 *	113	82.8	16.1	1.1 *	633	61.8	20.8	17.4
51-70 years	800	59.9	21.3	18.8	42	51.3	27.6	21.1 *	104	69.5	19.2	11.2 *	599	59.6	21.5	18.9
71 + years	655	56.7	23.8	19.5	34	74.2	13.9	11.9 *	109	73.9	17.0	9.1 *	437	53.1	25.9	21.1
Total, age adjusted	4,737	68.6	18.4	13.0	578	79.2	12.2	8.5 *	751	75.3	15.8	8.9	3,074	67.7	19.0	13.3
Female																
1-3 years	796	90.6	8.4	1.0 *	170	89.3	8.9	1.8 *	130	93.6	6.2	0.2 *	446	90.4	8.6	1.0 *
4-8 years	690	92.0	7.5	0.5 *	142	91.5	8.5	0.0	124	94.1	5.8	0.1 *	386	91.8	7.5	0.7 *
9-13 years	299	87.7	9.3	3.0 *	39	84.4	15.6	0.0 *	60	87.3	11.8	0.9 *	172	88.4	8.4	› 3.2 *
14-18 years	270	72.3	17.6	10.1	53	77.8	14.0	8.2 *	48	77.4	9.8	12.8 *	152	70.9	20.1	9.0 *
19-30 years	833	68.3	21.0	10.7	145	69.4	29.7	0.9 *	141	75.2	12.4	› 12.4 *	498	67.8	20.6	›››11.6
31-50 years	1,310	58.7	21.1	20.2	151	76.4	20.5	3.2 *	155	66.0	21.5	›› 12.6	922	56.8	21.2	›››22.0
51-70 years	1,147	52.6	21.1	26.3	103	64.2	16.4	19.4	168	56.4	22.9	20.7	764	50.6	21.8	27.6
71 + years	1,050	56.5	25.1	18.4	91	72.4	14.4	13.2 *	242	61.0	24.3	14.7	575	52.1	27.3	20.6
Total, age adjusted	6,395	65.8	18.8	15.4	894	75.0	18.6	6.4	1,068	70.9	17.2	› 11.9	3,915	64.4	19.2	›››16.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-35—Standard errors for number of dietary supplements taken by persons using dietary supplements in past month

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Number supplements used			Sample size	Number supplements used			Sample size	Number supplements used			Sample size	Number supplements used		
		One	Two	Three +		One	Two	Three +		One	Two	Three +		One	Two	Three +
Both sexes																
1-3 years	1,519	1.2	1.2	0.4	364	2.5	2.4	0.5	249	2.1	2.1	0.1	819	1.4	1.3	0.5
4-8 years	1,407	1.0	1.1	0.2	268	3.3	3.3	0.0	247	1.7	1.6	0.1	807	1.5	1.5	0.2
9-13 years	583	2.4	2.5	0.8	91	5.0	5.0	0.5	115	9.1	9.1	1.1	336	3.3	3.2	0.8
14-18 years	451	3.5	2.4	2.5	72	5.1	2.9	4.7	80	7.6	3.7	7.1	263	4.0	3.2	2.2
19-30 years	1,343	1.7	1.7	1.2	189	8.7	8.5	0.8	237	5.9	3.8	4.4	834	2.1	1.8	1.6
31-50 years	2,177	1.8	1.7	1.5	218	3.6	3.1	2.4	268	5.3	5.7	1.8	1,555	2.0	2.0	1.7
51-70 years	1,947	1.6	1.4	1.5	145	5.2	4.1	4.4	272	5.4	4.2	3.6	1,363	1.8	1.6	1.7
71 + years	1,705	1.7	1.3	1.2	125	3.8	3.2	3.4	351	3.6	3.2	3.2	1,012	2.0	1.9	1.5
Total, age adjusted	11,132	0.9	0.7	0.7	1,472	2.0	1.9	1.4	1,819	2.5	2.3	1.3	6,989	1.0	0.8	0.8
Male																
1-3 years	723	1.7	1.7	0.6	194	1.7	1.7	0.2	119	2.8	2.7	0.2	373	2.5	2.4	0.8
4-8 years	717	1.5	1.5	0.2	126	3.5	3.5	0.0	123	1.4	1.4	0.2	421	2.0	2.1	0.3
9-13 years	284	4.3	4.3	0.6	52	1.0	0.0	1.0	55	12.4	12.2	2.2	164	5.7	5.7	0.3
14-18 years	181	6.3	4.7	4.2	19	5.2	4.3	2.7	32	14.2	2.0	14.4	111	6.2	5.2	3.4
19-30 years	510	4.2	3.4	2.7	44	8.8	8.4	2.6	96	8.7	7.5	8.6	336	5.0	3.9	2.9
31-50 years	867	2.4	2.7	2.3	67	7.2	2.8	6.5	113	5.8	5.8	0.7	633	2.6	2.9	2.6
51-70 years	800	2.7	1.9	2.1	42	9.4	8.7	12.0	104	9.1	7.7	6.9	599	2.9	2.1	2.6
71 + years	655	2.7	2.9	2.3	34	8.3	6.9	7.1	109	6.8	4.7	5.6	437	3.3	3.7	2.7
Total, age adjusted	4,737	1.3	1.1	1.0	578	3.6	2.3	3.3	751	3.4	3.0	2.3	3,074	1.3	1.3	1.2
Female																
1-3 years	796	1.4	1.3	0.5	170	5.1	5.1	1.2	130	2.8	2.8	0.2	446	1.5	1.4	0.7
4-8 years	690	1.8	1.8	0.3	142	5.0	5.0	0.0	124	2.8	2.8	0.1	386	2.4	2.2	0.4
9-13 years	299	1.9	1.9	1.3	39	10.9	10.9	0.0	60	8.7	8.5	0.8	172	2.5	2.3	1.6
14-18 years	270	3.8	2.6	2.9	53	5.9	3.5	5.2	48	8.8	4.9	8.1	152	4.8	3.6	3.2
19-30 years	833	2.7	2.4	1.3	145	9.7	9.7	0.5	141	6.7	3.6	5.0	498	3.2	2.8	1.8
31-50 years	1,310	2.0	1.6	1.6	151	4.4	4.5	1.5	155	7.4	8.1	3.2	922	2.2	2.0	1.9
51-70 years	1,147	2.0	1.9	1.9	103	6.8	5.6	5.1	168	5.2	4.7	4.6	764	2.2	2.2	1.9
71 + years	1,050	2.0	1.4	1.3	91	4.8	4.0	4.2	242	4.3	3.8	3.8	575	2.4	1.8	1.7
Total, age adjusted	6,395	1.0	0.8	0.8	894	2.5	2.5	1.3	1,068	3.1	2.9	1.9	3,915	1.2	1.0	0.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-36—Types of dietary supplements taken by persons using dietary supplements in past month[1]

Total persons

	Sample size	Single vitamin		Multiple vitamin		Single mineral		Vitamin/mineral combo		Other supplements	
		Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error
Both sexes											
1-3 years	1,519	4.3	0.9	53.4	1.8	7.3	1.3	40.7	1.7	0.3 *	0.2
4-8 years	1,407	7.6	1.8	54.7	3.0	5.3	1.0	36.9	3.0	0.7 *	0.3
9-13 years	583	19.8	3.4	52.6	3.5	2.8 *	1.0	34.6	3.4	2.9	1.0
14-18 years	451	39.0	3.9	33.5	4.4	15.7	2.4	35.5	4.2	7.7	1.7
19-30 years	1,343	27.5	1.5	26.7	1.8	12.2	1.3	56.2	2.1	9.0	1.1
31-50 years	2,177	32.6	1.7	33.7	1.7	17.0	1.4	51.5	2.0	12.9	1.2
51-70 years	1,947	41.1	1.5	28.4	1.6	29.0	1.5	47.4	1.5	13.5	1.1
71 + years	1,705	34.5	1.8	24.2	1.7	37.6	1.5	44.3	1.9	10.5	0.9
Total, age adjusted	11,132	30.0	1.2	34.5	0.9	17.8	0.6	47.0	1.2	9.6	0.4
Male											
1-3 years	723	5.0	1.6	53.2	2.2	6.4	1.5	41.0	2.5	0.3 *	0.2
4-8 years	717	9.3	2.8	53.6	3.7	6.1	1.2	36.2	3.9	0.5 *	0.3
9-13 years	284	20.5	3.9	53.3	4.7	4.4 *	2.1	36.0	3.9	1.3 *	0.6
14-18 years	181	44.4	6.3	32.0	6.5	11.5 *	4.0	34.0	7.7	9.0	2.9
19-30 years	510	31.2	3.5	28.2	3.3	6.7	1.7	51.0	3.6	12.8	2.5
31-50 years	867	34.0	2.2	36.1	2.8	8.0	1.1	48.8	3.3	13.9	1.9
51-70 years	800	39.6	2.5	29.9	2.5	23.5	2.5	45.4	2.2	12.0	1.6
71 + years	655	35.6	2.6	27.2	2.4	30.0	2.1	45.6	3.0	13.0	1.7
Total, age adjusted	4,737	31.4	1.7	35.9	1.2	12.3	0.7	45.0	1.7	10.5	0.8
Female											
1-3 years	796	3.7	0.8	53.8	2.6	8.2	1.6	40.4	2.4	0.3 *	0.2
4-8 years	690	5.5	1.5	56.0	3.3	4.3	1.4	37.8	3.6	1.0 *	0.4
9-13 years	299	19.2	5.4	51.8	4.9	1.3 *	0.5	33.1	5.7	4.6 *	2.0
14-18 years	270	34.5	5.7	34.6	5.1	19.3	3.1	36.7	5.0	6.6	2.2
19-30 years	833	25.0	1.6	25.6	2.1	16.0	1.9	59.8	2.4	6.3	1.3
31-50 years	1,310	31.6	2.0	32.0	1.8	23.4	1.9	53.5	1.9	12.2	1.2
51-70 years	1,147	42.0	1.7	27.3	1.9	32.7	1.7	48.8	1.7	14.5	1.3
71 + years	1,050	34.0	2.0	22.7	1.9	41.4	1.9	43.7	2.2	9.3	1.2
Total, age adjusted	6,395	28.8	1.4	33.6	1.0	21.4	0.8	48.4	1.2	9.1	0.6

See footnotes at end of table.

Table D-36—Types of dietary supplements taken by persons using dietary supplements in past month[1] — Continued

Persons currently receiving food stamps

	Sample size	Single vitamin		Multiple vitamin		Single mineral		Vitamin/mineral combo		Other supplements	
		Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error
Both sexes											
1-3 years	364	1.5 *	0.6	54.4	4.1	6.6	1.2	40.8	4.6	0.6 *	0.5
4-8 years	268	6.2 *	2.6	55.1	7.5	3.8 *	1.2	40.4	8.1	0.2 *	0.2
9-13 years	91	14.8 *	5.4	33.7	8.6	6.6 *	3.1	50.6 *	9.8	2.0 *	1.5
14-18 years	72	20.4 *	8.8	24.5 *	7.1	18.5 *	6.2	42.9 *	8.3	11.0 *	6.4
19-30 years	189	15.9	4.6	15.7	3.8	19.7	4.0	64.1	6.1	2.8 *	1.0
31-50 years	218	18.2	4.4	27.3	4.3	19.0	4.0	41.8	5.4	7.0	2.6
51-70 years	145	26.5	4.0	26.5	4.5	32.1	5.5	41.3	7.5	16.4	3.2
71 + years	125	22.1	3.4	20.0	4.6	44.4	5.3	29.6	4.2	9.7 *	3.1
Total, age adjusted	1,472	18.0	1.9	28.0	2.0	21.1	2.2	44.9	2.2	7.4	1.4
Male											
1-3 years	194	2.0 *	0.9	55.4	4.5	7.3	1.6	37.4	5.1	0.2 *	0.2
4-8 years	126	8.8 *	4.4	47.0	8.1	6.4 *	2.4	41.0	10.4	0.5 *	0.5
9-13 years	52	13.3 *	5.1	23.8 *	9.2	7.9 *	4.4	55.8 *	12.6	1.0 *	1.0
14-18 years	19	24.3 *	13.0	60.5 *	15.8	0.0 *	0.0	21.9 *	10.1	2.6 *	2.7
19-30 years	44	25.6 *	9.8	26.8 *	8.8	10.0 *	7.2	54.1 *	8.1	4.0 *	2.1
31-50 years	67	17.3 *	7.8	34.1 *	7.0	8.0 *	3.0	42.6 *	8.9	14.8 *	7.1
51-70 years	42	43.5 *	9.3	16.8 *	6.3	25.8 *	8.6	45.8 *	13.7	10.9 *	7.1
71 + years	34	31.2 *	8.7	21.0 *	9.5	31.8 *	10.9	27.8 *	11.4	29.0 *	13.8
Total, age adjusted	578	23.5	3.7	31.6	3.5	12.8	2.1	42.9	3.8	10.0	3.2
Female											
1-3 years	170	0.8 *	0.7	53.0	6.9	5.7 *	1.6	45.2	7.9	1.2 *	1.2
4-8 years	142	4.0 *	2.6	62.0	9.2	1.6 *	0.8	39.8	9.4	0.0	0.0
9-13 years	39	16.9 *	11.0	46.7 *	13.8	5.0 *	2.9	43.8 *	14.7	3.3 *	3.3
14-18 years	53	19.4 *	9.9	15.7 *	5.8	23.0 *	7.3	48.1 *	10.2	13.0 *	7.4
19-30 years	145	12.0 *	5.4	11.2 *	3.9	23.6	6.6	68.1	6.9	2.4 *	1.2
31-50 years	151	18.7	4.8	24.2	5.1	23.9	5.6	41.5	5.9	3.6 *	1.2
51-70 years	103	21.4	3.4	29.4	5.2	34.0	6.1	40.0	7.7	18.1	4.5
71 + years	91	20.2	4.2	19.8 *	4.5	47.1	4.8	30.0 *	5.1	5.6 *	2.4
Total, age adjusted	894	16.3	1.9	27.6	2.6	23.8	3.0	45.3	3.0	6.5	1.3

See footnotes at end of table.

Table D-36—Types of dietary supplements taken by persons using dietary supplements in past month[1] — Continued

Income-eligible, food stamp nonparticipants

	Sample size	Single vitamin		Multiple vitamin		Single mineral		Vitamin/mineral combo		Other supplements	
		Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error
Both sexes											
1-3 years	249	4.4 *	2.3	47.8	5.4	8.4	1.8	41.3	5.6	0.0	0.0
4-8 years	247	15.3 *	9.8	38.5	7.2	5.2 *	1.9	39.0	7.9	1.5 *	1.4
9-13 years	115	› 37.8 *	10.6	43.0 *	9.8	2.3 *	1.3	28.8 *	7.8	1.0 *	1.0
14-18 years	80	28.9 *	8.2	35.8 *	10.5	22.0 *	8.4	34.4 *	9.0	9.1 *	5.0
19-30 years	237	›› 33.7	4.9	26.0	5.2	15.3	4.2	› 45.0	5.2	›› 12.6	3.2
31-50 years	268	25.9	7.1	32.5	6.3	12.9	4.5	41.5	6.4	11.0	3.3
51-70 years	272	34.4	4.1	24.0	4.6	28.9	4.1	44.0	5.6	15.0	3.8
71 + years	351	29.2	3.6	22.0	2.6	40.4	4.2	38.7	3.1	8.6	2.7
Total, age adjusted	1,819	›› 28.4	3.0	31.1	3.0	17.7	1.8	40.6	3.4	9.7	1.4
Male											
1-3 years	119	3.6 *	2.6	44.1	8.9	6.8 *	2.0	48.3	8.0	0.0	0.0
4-8 years	123	26.0 *	14.4	34.5	9.4	4.4 *	2.3	33.7	7.7	1.0 *	1.0
9-13 years	55	›› 52.1 *	12.8	40.2 *	14.0	4.1 *	2.8	›› 16.6 *	6.0	2.2 *	2.2
14-18 years	32	35.0 *	14.5	36.1 *	16.0	5.7 *	3.7	20.2 *	7.7	24.1 *	14.5
19-30 years	96	43.7 *	8.6	27.1 *	6.1	13.2 *	7.8	38.2 *	8.3	›› 23.4	6.5
31-50 years	113	16.5 *	5.4	39.0 *	9.2	2.9 *	1.4	44.2 *	8.8	10.1 *	4.8
51-70 years	104	27.7 *	7.1	31.3 *	9.1	22.7	6.3	42.3 *	9.9	12.5 *	7.1
71 + years	109	23.1 *	6.4	27.5 *	6.5	33.0	6.8	38.2 *	5.9	4.7 *	2.2
Total, age adjusted	751	27.7	3.6	34.5	4.0	11.3	1.8	38.0	3.8	11.6	2.8
Female											
1-3 years	130	5.2 *	3.6	51.5	7.5	10.0 *	2.7	34.4	7.5	0.0	0.0
4-8 years	124	2.1 *	1.8	43.5	8.5	6.3 *	2.8	45.6	9.6	2.0 *	2.0
9-13 years	60	26.4 *	11.8	45.2 *	11.3	0.8 *	0.5	38.6 *	10.7	0.0 *	0.0
14-18 years	48	26.9 *	9.6	35.7 *	12.5	27.5 *	10.8	39.1 *	11.4	4.1 *	3.9
19-30 years	141	› 27.3 *	5.2	25.2	6.6	16.7	3.8	› 49.3	6.8	5.5 *	2.8
31-50 years	155	31.2 *	9.4	28.8	7.7	18.6	7.4	40.0	8.4	11.5 *	4.9
51-70 years	168	›› 39.2	5.3	18.7	4.2	33.3	5.5	45.3	5.2	16.8	4.5
71 + years	242	31.0	4.5	20.4	2.8	42.5	4.7	38.8	3.8	9.7	3.5
Total, age adjusted	1,068	››› 28.1	3.3	29.4	3.6	21.1	2.8	42.4	4.1	8.8	2.0

See footnotes at end of table.

Table D-36—Types of dietary supplements taken by persons using dietary supplements in past month[1] — Continued

Higher-income, food stamp nonparticipants

	Sample size	Single vitamin		Multiple vitamin		Single mineral		Vitamin/mineral combo		Other supplements	
		Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error	Percent	Std Error
Both sexes											
1-3 years	819	›› 5.2	1.3	53.7	2.0	7.2	1.8	40.5	2.0	0.3 *	0.2
4-8 years	807	6.9	1.4	56.8	4.0	4.7	1.1	37.3	4.0	0.6 *	0.3
9-13 years	336	16.0	4.1	›› 56.8	4.7	2.4 *	1.3	34.2	3.5	2.8 *	1.5
14-18 years	263	39.3	4.6	32.9	5.2	14.1	2.6	36.8	4.8	7.0	1.9
19-30 years	834	› 27.4	2.0	› 27.9	2.4	› 10.5	1.6	57.4	2.8	››› 9.4	1.3
31-50 years	1,555	››› 34.0	1.6	34.0	1.8	17.6	1.5	53.4	2.1	› 13.2	1.2
51-70 years	1,363	››› 42.6	1.8	29.1	1.7	29.1	1.8	47.8	1.6	12.6	1.2
71 + years	1,012	››› 37.3	2.0	24.6	2.4	36.7	1.8	››› 47.5	2.1	11.0	1.1
Total, age adjusted	6,989	››› 30.7	1.1	›› 35.4	1.2	17.4	0.6	48.2	1.2	9.6	0.5
Male											
1-3 years	373	6.0	2.4	54.2	2.9	5.9	2.0	40.0	3.4	0.4 *	0.3
4-8 years	421	7.2	1.9	57.1	4.9	5.3	1.3	37.7	4.9	0.3 *	0.3
9-13 years	164	14.4	3.9	›› 59.7	6.0	3.6 *	2.4	37.6	4.7	0.5 *	0.2
14-18 years	111	42.1	7.7	27.2	6.7	›› 9.8 *	3.2	39.1	9.2	9.4 *	3.5
19-30 years	336	30.0	4.3	28.3	4.0	5.2 *	1.6	53.1	4.4	› 12.7	2.9
31-50 years	633	› 36.0	2.3	36.8	3.0	8.9	1.2	49.1	3.4	14.2	1.9
51-70 years	599	41.1	3.0	› 30.4	2.4	23.0	2.9	45.8	2.4	11.1	1.8
71 + years	437	37.5	2.9	27.3	2.8	30.2	2.6	48.3	3.4	12.8	2.0
Total, age adjusted	3,074	31.6	1.7	36.6	1.4	12.0	0.7	46.3	1.8	10.3	0.8
Female											
1-3 years	446	›› 4.3 *	1.0	53.3	3.6	8.5	2.2	41.0	3.0	0.2 *	0.2
4-8 years	386	6.5	2.1	56.5	4.7	3.8 *	1.7	36.8	5.0	› 1.0 *	0.5
9-13 years	172	17.8	7.3	53.8	6.0	1.2 *	0.6	30.6	6.0	5.4 *	3.0
14-18 years	152	36.7	5.9	›› 38.3	6.3	18.1	4.0	34.6	5.9	4.8 *	1.7
19-30 years	498	› 25.5	2.1	›› 27.6	2.6	14.4	2.4	60.6	2.8	› 7.0	1.6
31-50 years	922	›› 32.6	2.0	32.0	2.0	24.0	2.2	› 56.4	2.1	››› 12.4	1.4
51-70 years	764	››› 43.7	2.1	28.1	2.1	33.6	2.0	49.2	1.9	13.7	1.4
71 + years	575	››› 37.2	2.2	22.9	2.9	40.7	2.6	›› 47.0	2.7	9.8	1.8
Total, age adjusted	3,915	››› 30.0	1.4	› 34.5	1.4	21.4	0.8	49.4	1.3	› 9.1	0.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Percents do not sum to 100 because some respondents took two or more supplements.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-37—Total Healthy Eating Index score

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
2-3 years	2,174	72.3	0.5	739	70.2	1.0	446	70.4	1.1	867	›››73.6	0.6
4-8 years	3,448	66.5	0.4	1,068	65.9	0.7	712	66.0	0.8	1,470	67.0	0.6
9-13 years	2,457	63.0	0.4	663	61.8	0.9	538	62.6	0.7	1,113	63.5	0.4
14-18 years	1,936	59.7	0.5	484	58.2	0.9	431	59.2	1.4	871	60.1	0.6
19-30 years	4,103	60.9	0.4	756	58.0	0.7	962	› 60.7	0.9	2,078	›››61.4	0.5
31-50 years	5,588	62.3	0.4	831	58.3	0.8	935	58.6	1.0	3,469	›››63.1	0.4
51-70 years	4,019	66.8	0.4	453	59.8	1.0	687	›› 63.3	0.8	2,533	›››67.8	0.4
71 + years	2,623	68.8	0.4	239	62.9	1.4	571	66.1	0.9	1,525	›››69.7	0.5
Total, age adjusted	26,348	64.0	0.2	5,233	60.2	0.4	5,282	›››61.8	0.5	13,926	›››64.8	0.3
Male												
2-3 years	1,076	72.9	0.6	389	71.8	1.2	217	70.2	1.2	417	74.1	0.7
4-8 years	1,707	66.6	0.6	500	66.9	1.0	346	65.4	0.9	756	67.0	0.7
9-13 years	1,219	62.4	0.4	338	60.8	1.4	256	61.3	0.9	555	63.2	0.5
14-18 years	908	59.9	0.7	216	56.8	1.2	203	56.7	1.5	403	›› 61.0	0.8
19-30 years	1,902	60.1	0.5	241	57.5	1.2	483	58.8	1.2	1,012	› 60.7	0.5
31-50 years	2,533	61.6	0.5	281	56.1	1.5	437	58.7	1.2	1,656	›››62.2	0.5
51-70 years	1,942	65.0	0.5	183	54.6	1.7	324	› 59.9	1.2	1,284	›››66.1	0.6
71 + years	1,255	66.2	0.6	106	57.7	2.4	232	60.9	1.0	798	›››67.5	0.6
Total, age adjusted	12,542	63.1	0.3	2,254	58.0	0.6	2,498	›› 60.1	0.5	6,881	›››63.9	0.3
Female												
2-3 years	1,098	71.6	0.7	350	68.2	1.2	229	70.5	1.5	450	›››73.1	0.8
4-8 years	1,741	66.5	0.6	568	65.0	1.2	366	66.7	1.3	714	67.1	0.9
9-13 years	1,238	63.5	0.6	325	62.9	1.0	282	63.8	1.2	558	63.7	0.7
14-18 years	1,028	59.5	0.6	268	59.3	1.2	228	61.1	1.7	468	59.2	0.7
19-30 years	2,201	61.6	0.5	515	58.3	0.8	479	›››62.5	1.0	1,066	›››62.2	0.6
31-50 years	3,055	63.0	0.5	550	59.6	0.8	498	58.5	1.1	1,813	›››64.0	0.5
51-70 years	2,077	68.4	0.4	270	62.4	1.0	363	›› 66.2	1.0	1,249	›››69.4	0.4
71 + years	1,368	70.5	0.4	133	65.5	1.6	339	68.1	0.9	727	›››71.6	0.6
Total, age adjusted	13,806	64.8	0.3	2,979	61.4	0.4	2,784	›› 63.0	0.6	7,045	›››65.6	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-38—Percent of persons by Healthy Eating Index ratings

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good
Both sexes																
2-3 years	2,174	5.8	63.1	31.1	739	10.1	64.8	25.1	446	7.4	67.3	25.3	867	›› 3.9	61.4	›› 34.7
4-8 years	3,448	10.6	77.1	12.3	1,068	10.8	78.7	10.5	712	12.8	73.8	13.4	1,470	9.4	78.0	12.6
9-13 years	2,457	14.9	79.1	6.0	663	23.8	70.8	5.5	538	› 13.4	›› 82.1	4.4	1,113	›› 12.9	›› 80.7	6.4
14-18 years	1,936	21.6	75.6	2.8	484	23.2	73.5	3.2	431	25.2	70.6	4.2	871	20.7	76.6	2.7
19-30 years	4,103	19.9	74.4	5.6	756	25.8	70.8	3.4	962	20.6	72.0	7.3	2,078	› 18.7	75.6	5.7
31-50 years	5,588	19.3	72.5	8.2	831	25.1	71.5	3.4	935	29.3	65.0	5.8	3,469	17.6	73.4	››› 8.9
51-70 years	4,019	13.2	68.3	18.5	453	26.1	66.5	7.4	687	21.0	66.5	12.5	2,533	››› 11.4	69.0	››› 19.6
71 + years	2,623	11.0	65.9	23.1	239	26.2	63.1	10.7	571	› 14.4	69.6	16.0	1,525	››› 9.6	65.2	››› 25.2
Total, age adjusted	26,348	16.2	72.2	11.6	5,233	23.6	70.1	6.3	5,282	21.5	69.2	› 9.3	13,926	››› 14.7	72.9	››› 12.4
Male																
2-3 years	1,076	4.8	64.1	31.1	389	8.1	63.0	28.9	217	6.4	71.3	22.4	417	3.2	63.1	33.6
4-8 years	1,707	10.4	78.9	10.7	500	9.7	79.8	10.6	346	14.2	73.8	12.0	756	8.8	81.0	10.2
9-13 years	1,219	14.7	79.3	6.0	338	27.0	68.0	5.0	256	13.4	83.7	2.9	555	› 12.3	80.6	7.1
14-18 years	908	21.0	76.3	2.7	216	26.0	71.4	2.6	203	33.0	65.9	1.1	403	18.4	78.2	3.4
19-30 years	1,902	20.9	74.5	4.6	241	27.2	69.0	3.9	483	25.7	69.0	5.3	1,012	19.4	75.9	4.7
31-50 years	2,533	21.6	71.2	7.2	281	33.7	62.5	3.7	437	30.4	62.4	7.2	1,656	19.9	72.7	7.4
51-70 years	1,942	17.2	67.5	15.3	183	46.3	49.2	4.5	324	28.8	64.6	6.6	1,284	››› 14.4	› 69.4	››› 16.3
71 + years	1,255	15.4	66.4	18.2	106	39.1	57.6	3.3	232	20.5	71.4	8.1	798	›› 13.7	65.4	››› 20.9
Total, age adjusted	12,542	18.1	71.9	10.0	2,254	31.5	63.1	5.4	2,498	25.3	67.7	7.1	6,881	››› 16.1	››› 73.2	››› 10.7
Female																
2-3 years	1,098	6.8	62.1	31.1	350	12.5	67.0	20.4	229	8.3	63.8	27.9	450	› 4.6	59.7	››› 35.7
4-8 years	1,741	10.8	75.0	14.2	568	11.6	77.9	10.5	366	11.3	73.8	14.9	714	10.2	74.4	15.5
9-13 years	1,238	15.0	79.0	6.0	325	20.6	73.5	6.0	282	13.4	80.6	5.9	558	13.5	80.8	5.8
14-18 years	1,028	22.2	74.8	3.0	268	21.2	75.1	3.7	228	19.2	74.3	6.5	468	23.0	75.0	2.0
19-30 years	2,201	19.0	74.3	6.7	515	25.3	71.5	3.2	479	› 15.6	75.1	9.4	1,066	18.0	75.2	6.8
31-50 years	3,055	17.1	73.8	9.0	550	19.9	77.0	3.1	498	28.3	67.2	4.5	1,813	15.5	74.2	››› 10.4
51-70 years	2,077	9.7	69.0	21.3	270	16.4	74.8	8.8	363	14.5	68.1	17.4	1,249	› 8.6	68.6	››› 22.8
71 + years	1,368	8.0	65.6	26.4	133	20.0	65.8	14.2	339	12.0	68.8	19.1	727	››› 6.1	65.1	››› 28.7
Total, age adjusted	13,806	14.6	72.4	13.0	2,979	19.4	74.0	6.6	2,784	18.5	70.6	› 10.9	7,045	››› 13.4	72.5	››› 14.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-39—Standard errors for percent of persons by Healthy Eating Index ratings

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good	Sample size	Poor	Needs Improve-ment	Good
Both sexes																
2-3 years	2,174	0.7	1.7	1.8	739	1.7	2.4	2.8	446	2.3	3.8	3.6	867	0.8	2.2	2.2
4-8 years	3,448	1.0	1.2	1.0	1,068	1.5	1.7	1.2	712	1.9	2.8	2.9	1,470	1.7	1.6	1.5
9-13 years	2,457	1.0	1.3	0.7	663	3.0	3.0	1.1	538	2.2	2.0	1.7	1,113	1.2	1.8	1.1
14-18 years	1,936	1.6	1.6	0.7	484	3.2	3.5	1.2	431	3.1	3.0	2.6	871	1.9	2.0	0.9
19-30 years	4,103	1.1	1.0	0.6	756	2.4	2.5	1.3	962	3.0	2.6	1.7	2,078	1.2	1.3	0.6
31-50 years	5,588	1.0	0.8	0.6	831	3.1	3.2	1.0	935	3.1	2.9	1.4	3,469	1.1	0.9	0.7
51-70 years	4,019	0.8	1.0	1.0	453	3.5	4.2	2.6	687	2.1	2.4	2.1	2,533	0.9	1.2	1.2
71 + years	2,623	0.8	1.5	1.2	239	4.0	3.6	2.1	571	1.5	2.6	2.0	1,525	1.0	1.6	1.4
Total, age adjusted	26,348	0.5	0.4	0.5	5,233	1.2	1.4	0.9	5,282	1.3	1.3	0.9	13,926	0.6	0.5	0.5
Male																
2-3 years	1,076	0.7	2.3	2.2	389	2.2	3.0	3.4	217	2.6	4.2	3.7	417	1.0	2.9	2.9
4-8 years	1,707	1.6	1.7	1.4	500	2.0	2.8	2.3	346	2.4	3.3	2.9	756	2.2	2.2	1.6
9-13 years	1,219	1.4	1.6	1.0	338	5.2	5.4	1.6	256	3.8	4.1	1.2	555	1.6	2.0	1.5
14-18 years	908	2.0	2.0	1.0	216	4.9	4.8	1.5	203	5.0	5.1	0.5	403	2.6	2.7	1.5
19-30 years	1,902	1.4	1.5	0.7	241	4.0	4.5	2.8	483	4.2	4.0	2.1	1,012	1.6	1.7	0.7
31-50 years	2,533	1.3	1.1	0.9	281	6.0	5.9	2.2	437	3.6	3.4	2.6	1,656	1.6	1.2	1.0
51-70 years	1,942	1.1	1.5	1.4	183	6.7	6.7	1.6	324	3.7	3.4	2.0	1,284	1.2	1.8	1.6
71 + years	1,255	1.5	1.8	1.5	106	8.1	8.1	1.8	232	3.3	4.3	2.3	798	1.6	2.1	1.8
Total, age adjusted	12,542	0.6	0.6	0.5	2,254	2.3	2.4	1.1	2,498	1.6	1.8	0.9	6,881	0.7	0.7	0.6
Female																
2-3 years	1,098	1.1	2.6	2.7	350	2.5	3.5	3.4	229	3.0	6.4	6.2	450	1.2	3.0	3.0
4-8 years	1,741	1.5	1.4	1.6	568	2.3	2.1	1.7	366	2.6	5.1	5.2	714	2.4	2.2	2.4
9-13 years	1,238	1.8	2.1	1.2	325	3.3	3.3	1.6	282	2.1	3.8	3.6	558	2.3	2.6	1.3
14-18 years	1,028	2.2	2.4	1.0	268	4.3	4.9	1.9	228	3.3	4.4	4.6	468	2.8	2.9	0.8
19-30 years	2,201	1.3	1.4	0.9	515	2.8	2.8	1.5	479	2.6	3.1	2.6	1,066	1.5	1.6	1.0
31-50 years	3,055	1.3	1.2	0.8	550	2.8	3.0	0.8	498	4.1	4.2	1.6	1,813	1.5	1.3	1.0
51-70 years	2,077	0.8	1.2	1.1	270	3.0	4.3	3.6	363	2.9	4.0	3.1	1,249	1.0	1.4	1.4
71 + years	1,368	0.7	1.9	1.8	133	3.7	3.5	2.8	339	1.6	3.1	2.4	727	1.0	2.0	1.9
Total, age adjusted	13,806	0.6	0.5	0.6	2,979	1.1	1.4	1.0	2,784	1.6	1.8	1.4	7,045	0.8	0.6	0.6

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-40—Healthy Eating Index component scores and food pyramid servings for grains[1]

	Mean HEI score				Mean # food pyramid servings				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	8.4	8.4	8.3	8.5	6.7	7.0	6.6	6.7	51.9	53.6	52.5	51.9
4-8 years	7.2	7.4	7.1	7.2	5.9	6.2	5.8	5.9	27.0	29.7	25.5	26.7
9-13 years	7.1	6.8	7.2	7.2	7.2	6.9	7.2	7.4	28.3	30.7	25.3	28.4
14-18 years	6.7	6.7	6.5	6.7	7.7	7.6	7.4	7.8	24.6	24.9	24.3	24.5
19-30 years	6.6	6.3	6.5	6.6	7.5	6.9	› 7.8	7.6	21.9	23.0	24.3	21.5
31-50 years	6.4	6.0	6.2	›› 6.5	7.1	6.6	6.7	› 7.2	19.9	15.5	19.4	› 20.4
51-70 years	6.7	5.9	› 6.5	›› 6.8	6.2	5.2	5.9	›› 6.3	22.1	17.4	20.5	22.4
71 + years	6.4	5.3	› 6.0	››› 6.6	5.5	4.5	5.0	››› 5.8	16.0	9.1 *	13.3	›› 17.9
Total, age adjusted	6.7	6.3	› 6.5	››› 6.8	6.8	6.3	6.6	››› 6.9	23.1	20.9	22.5	23.4
Male												
2-3 years	8.6	8.8	8.4	8.6	7.0	7.3	6.8	7.0	53.9	57.0	51.1	53.6
4-8 years	7.5	7.9	7.5	7.4	6.4	6.9	6.3	6.4	32.3	36.3	32.4	32.2
9-13 years	7.4	6.7	›› 7.7	›› 7.6	8.2	7.1	8.2	›› 8.6	36.0	27.9	31.2	› 39.4
14-18 years	7.2	6.5	6.8	›› 7.4	9.3	8.1	8.6	››› 9.8	32.3	21.8	32.4	›› 35.1
19-30 years	6.9	6.5	7.0	6.9	8.9	8.2	9.4	8.9	27.1	29.8	29.8	27.2
31-50 years	6.9	6.4	6.7	6.9	8.5	8.2	8.2	8.6	24.0	20.5	26.2	24.0
51-70 years	6.9	5.3	›› 6.8	››› 7.0	7.2	5.3	›› 7.0	››› 7.3	25.4	11.9 *	› 25.8	›› 25.5
71 + years	6.5	4.8	5.7	››› 6.8	6.5	4.6 *	5.6	››› 6.8	18.5	7.4 *	› 15.9	›› 19.7
Total, age adjusted	7.0	6.3	››› 6.9	››› 7.1	8.0	7.1	›› 7.8	››› 8.1	27.6	22.7	› 28.1	›› 28.2
Female												
2-3 years	8.2	8.0	8.2	8.4	6.4	6.6	6.4	6.4	49.8	49.2	53.8	50.2
4-8 years	6.8	7.1	6.7	6.8	5.4	5.7	5.4	5.3	21.0	24.0	18.1	19.9
9-13 years	6.8	7.0	6.8	6.7	6.3	6.7	6.2	6.1	20.4	33.5	› 19.5	››› 16.8
14-18 years	6.2	6.9	6.3	›› 6.0	6.1	7.1	6.5	›› 5.7	17.0	27.2	17.9	› 13.8
19-30 years	6.3	6.3	6.1	6.4	6.2	6.3	6.2	6.2	16.9	20.1	18.7	15.6
31-50 years	6.0	5.8	5.8	6.1	5.9	5.6	5.5	6.0	16.1	12.5	13.5	16.8
51-70 years	6.5	6.2	6.3	6.6	5.3	5.2	5.0	5.3	19.2	20.0	16.2	19.3
71 + years	6.3	5.5	6.1	›› 6.4	4.9	4.4	4.8	› 5.0	14.3	10.0 *	12.3	16.4
Total, age adjusted	6.4	6.3	6.2	6.4	5.8	5.8	5.6	5.8	18.8	19.8	17.5	18.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-41—Standard errors for Healthy Eating Index component scores and food pyramid servings for grains[1]

	Standard error for mean HEI score				Standard error for number servings				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	0.07	0.14	0.20	0.10	0.10	0.25	0.26	0.13	1.8	3.1	4.3	2.5
4-8 years	0.09	0.21	0.22	0.11	0.12	0.31	0.30	0.11	1.5	3.4	4.5	1.6
9-13 years	0.10	0.17	0.19	0.12	0.18	0.22	0.35	0.22	1.8	3.0	2.8	2.2
14-18 years	0.11	0.24	0.26	0.14	0.21	0.33	0.45	0.26	1.6	3.3	3.9	2.0
19-30 years	0.09	0.20	0.16	0.13	0.15	0.31	0.34	0.21	1.2	3.8	2.4	1.6
31-50 years	0.08	0.14	0.19	0.09	0.13	0.29	0.26	0.14	1.0	2.0	2.4	1.1
51-70 years	0.07	0.27	0.16	0.07	0.09	0.33	0.22	0.10	1.0	3.8	2.8	1.1
71 + years	0.07	0.23	0.15	0.08	0.10	0.24	0.16	0.12	1.3	2.7	2.3	1.5
Total, age adjusted	0.05	0.09	0.09	0.05	0.07	0.13	0.14	0.08	0.6	1.4	1.1	0.7
Male												
2-3 years	0.08	0.15	0.21	0.11	0.16	0.33	0.37	0.19	2.4	4.5	5.2	3.0
4-8 years	0.12	0.21	0.31	0.16	0.16	0.37	0.42	0.18	2.3	4.2	6.5	2.4
9-13 years	0.14	0.26	0.23	0.18	0.29	0.45	0.55	0.35	2.6	4.7	4.0	3.2
14-18 years	0.14	0.30	0.34	0.17	0.30	0.42	0.54	0.37	2.2	4.0	6.4	2.7
19-30 years	0.15	0.35	0.23	0.19	0.25	0.52	0.50	0.33	2.1	5.5	3.9	2.6
31-50 years	0.11	0.28	0.21	0.13	0.18	0.58	0.33	0.21	1.6	4.0	3.7	1.8
51-70 years	0.08	0.41	0.31	0.09	0.14	0.53	0.44	0.16	1.6	4.3	5.3	1.7
71 + years	0.11	0.46	0.28	0.12	0.17	0.49	0.33	0.21	2.0	3.6	3.1	2.2
Total, age adjusted	0.06	0.12	0.11	0.07	0.09	0.20	0.18	0.11	0.8	1.8	1.7	0.9
Female												
2-3 years	0.13	0.30	0.33	0.15	0.15	0.42	0.34	0.18	3.0	4.5	5.6	3.9
4-8 years	0.13	0.25	0.26	0.13	0.13	0.30	0.33	0.12	1.7	3.3	5.2	1.9
9-13 years	0.14	0.27	0.24	0.16	0.16	0.31	0.32	0.19	2.0	4.7	5.2	1.9
14-18 years	0.15	0.31	0.38	0.17	0.21	0.45	0.59	0.22	1.8	5.0	4.0	2.2
19-30 years	0.09	0.21	0.25	0.13	0.14	0.30	0.39	0.18	1.3	4.0	2.8	1.8
31-50 years	0.09	0.16	0.23	0.09	0.11	0.20	0.26	0.12	1.1	2.6	2.7	1.3
51-70 years	0.10	0.31	0.25	0.11	0.10	0.41	0.24	0.11	1.3	4.8	3.2	1.4
71 + years	0.07	0.27	0.14	0.09	0.08	0.27	0.17	0.09	1.3	3.7	2.6	1.6
Total, age adjusted	0.05	0.10	0.13	0.05	0.06	0.13	0.15	0.07	0.7	1.8	1.5	0.7

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-42—Healthy Eating Index component scores and food pyramid servings for vegetables[1]

	Mean HEI score				Mean # food pyramid servings				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	5.4	5.9	5.6	›› 5.1	2.0	2.3	2.1	›› 1.9	22.8	26.1	20.9	21.3
4-8 years	4.2	4.4	4.6	4.2	1.7	1.8	1.8	1.7	11.3	12.7	16.5	9.8
9-13 years	4.4	4.5	4.5	4.4	2.1	2.1	2.1	2.2	12.9	12.4	9.5	14.1
14-18 years	4.6	4.2	4.4	4.7	2.5	2.3	2.3	2.4	14.5	13.0	14.1	14.7
19-30 years	5.6	5.0	5.8	› 5.7	3.2	2.8	3.3	3.2	22.9	17.1	23.7	› 24.4
31-50 years	5.9	4.8	5.2	››› 6.1	3.4	2.7	3.0	››› 3.5	26.5	17.1	22.2	››› 28.2
51-70 years	6.6	5.6	5.9	››› 6.8	3.5	2.8	3.3	››› 3.6	37.1	26.8	33.0	›› 38.9
71 + years	6.5	5.8	6.0	6.7	3.2	2.9	2.9	3.4	34.0	28.6	30.0	36.2
Total, age adjusted	5.7	5.0	› 5.4	››› 5.8	3.0	2.6	› 2.9	››› 3.1	25.3	19.3	› 23.1	››› 26.6
Male												
2-3 years	5.5	6.2	5.6	› 5.2	2.0	2.4	2.1	› 1.9	22.2	27.5	16.0	21.0
4-8 years	4.4	4.7	4.9	4.2	1.8	2.0	2.0	1.7	12.6	14.5	21.4	10.4
9-13 years	4.4	4.5	4.5	4.3	2.2	2.2	2.1	2.2	12.5	10.3	8.3 *	14.5
14-18 years	4.7	3.9	4.2	› 4.8	2.7	2.4	2.3	2.7	14.2	13.7	14.4	13.3
19-30 years	5.8	5.2	5.9	5.9	3.7	3.4	3.8	3.7	24.8	19.7	26.7	26.0
31-50 years	6.0	4.8	5.3	››› 6.1	3.8	3.2	3.4	3.9	25.5	17.8	19.7	›› 27.2
51-70 years	6.6	5.6	5.8	› 6.9	3.8	3.3	3.6	4.0	37.6	21.6	31.4	››› 39.5
71 + years	6.3	5.6 *	5.4	6.5	3.4	3.1 *	3.2	3.6	30.0	25.9 *	25.6	31.8
Total, age adjusted	5.7	5.0	5.3	››› 5.8	3.3	3.0	3.2	› 3.4	25.1	18.8	22.2	››› 26.2
Female												
2-3 years	5.3	5.6	5.6	5.1	2.0	2.2	2.2	1.9	23.4	24.4	25.4	21.6
4-8 years	4.1	4.1	4.2	4.2	1.6	1.6	1.7	1.6	9.8	11.3	11.1	9.1
9-13 years	4.5	4.5	4.5	4.5	2.1	2.0	2.0	2.1	13.4	14.6	10.7	13.6
14-18 years	4.6	4.5	4.6	4.6	2.2	2.2	2.3	2.2	14.8	12.5	13.8	16.2
19-30 years	5.5	4.8	5.6	› 5.6	2.7	2.6	2.8	2.8	21.0	16.0	20.7	› 22.8
31-50 years	5.9	4.9	5.2	››› 6.1	3.1	2.4	2.7	››› 3.2	27.5	16.7	› 24.3	››› 29.1
51-70 years	6.5	5.6	6.1	›› 6.7	3.2	2.6	3.1	›› 3.3	36.6	29.3	34.4	38.3
71 + years	6.7	5.9 *	6.2	6.9	3.1	2.9 *	2.8	3.3	36.7	29.9	31.8	› 39.8
Total, age adjusted	5.6	5.0	5.4	››› 5.8	2.8	2.4	2.6	››› 2.8	25.5	19.4	› 23.5	››› 26.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-43—Standard errors for Healthy Eating Index component scores and food pyramid servings for vegetables[1]

	Standard error for mean HEI score				Standard error for number servings				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	0.14	0.23	0.34	0.20	0.07	0.13	0.13	0.09	1.5	3.4	3.1	2.0
4-8 years	0.12	0.27	0.30	0.15	0.06	0.11	0.12	0.08	1.3	2.0	4.0	1.4
9-13 years	0.12	0.24	0.25	0.17	0.09	0.14	0.13	0.11	1.2	2.0	2.3	1.8
14-18 years	0.14	0.28	0.31	0.18	0.10	0.25	0.21	0.11	1.4	3.0	3.0	1.7
19-30 years	0.08	0.36	0.14	0.10	0.07	0.30	0.11	0.09	1.0	2.9	2.0	1.2
31-50 years	0.05	0.24	0.20	0.06	0.04	0.17	0.15	0.05	0.8	1.8	2.0	0.9
51-70 years	0.08	0.30	0.21	0.10	0.07	0.21	0.18	0.08	1.2	3.9	2.8	1.5
71 + years	0.12	0.46	0.22	0.14	0.08	0.27	0.15	0.10	1.4	4.1	3.3	1.6
Total, age adjusted	0.04	0.14	0.08	0.05	0.03	0.10	0.06	0.03	0.5	1.2	1.0	0.6
Male												
2-3 years	0.16	0.27	0.35	0.28	0.07	0.15	0.22	0.12	2.0	4.4	3.0	2.9
4-8 years	0.20	0.40	0.41	0.23	0.10	0.17	0.17	0.12	2.2	2.8	5.7	2.2
9-13 years	0.17	0.30	0.33	0.24	0.12	0.17	0.18	0.18	1.5	2.2	2.6	2.4
14-18 years	0.21	0.42	0.37	0.23	0.15	0.39	0.20	0.14	2.0	4.2	3.6	2.2
19-30 years	0.13	0.55	0.22	0.16	0.11	0.46	0.24	0.14	1.5	7.2	3.1	1.9
31-50 years	0.11	0.39	0.29	0.11	0.09	0.33	0.21	0.10	1.4	3.3	2.9	1.5
51-70 years	0.13	0.54	0.33	0.15	0.11	0.40	0.35	0.12	1.9	4.8	4.3	2.3
71 + years	0.15	0.64	0.26	0.17	0.10	0.38	0.21	0.12	1.8	8.1	3.2	2.0
Total, age adjusted	0.06	0.21	0.11	0.06	0.04	0.16	0.09	0.04	0.8	2.0	1.2	0.9
Female												
2-3 years	0.20	0.41	0.51	0.23	0.10	0.23	0.22	0.12	2.0	5.1	5.6	2.6
4-8 years	0.11	0.26	0.35	0.14	0.07	0.11	0.15	0.11	1.3	2.2	3.6	1.7
9-13 years	0.15	0.28	0.33	0.20	0.14	0.15	0.17	0.19	2.1	3.0	2.8	3.0
14-18 years	0.20	0.42	0.50	0.26	0.13	0.30	0.36	0.15	2.0	3.3	4.8	2.8
19-30 years	0.10	0.33	0.18	0.13	0.07	0.32	0.11	0.08	1.4	2.7	2.9	1.9
31-50 years	0.10	0.23	0.28	0.12	0.06	0.14	0.19	0.08	1.2	2.0	3.2	1.4
51-70 years	0.09	0.33	0.30	0.10	0.07	0.23	0.24	0.08	1.2	5.0	4.2	1.4
71 + years	0.14	0.50	0.28	0.20	0.10	0.29	0.17	0.14	2.0	3.8	4.0	2.4
Total, age adjusted	0.05	0.13	0.13	0.06	0.03	0.09	0.09	0.04	0.5	1.1	1.7	0.7

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-44—Healthy Eating Index component scores and food pyramid servings for fruit[1]

	Mean HEI score				Mean # food pyramid servings				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	6.7	5.7	6.2	›››7.3	2.9	2.3	2.4	›››3.2	52.1	43.9	48.2	›››56.4
4-8 years	5.0	4.6	4.9	› 5.1	1.6	1.4	› 1.7	›› 1.7	25.6	19.6	›› 30.8	›› 26.6
9-13 years	3.6	3.5	3.4	3.7	1.4	1.4	1.2	1.4	13.8	14.3	9.4	15.0
14-18 years	2.8	2.4	3.2	2.8	1.3	1.1	1.4	1.3	11.7	9.3	15.1	11.6
19-30 years	2.8	2.4	2.6	2.8	1.2	1.0	1.2	1.2	11.2	9.4	10.8	11.3
31-50 years	3.2	2.2	2.6	›››3.4	1.4	1.0	1.2	›››1.4	13.0	8.7	13.4	› 13.5
51-70 years	4.8	3.0	›› 4.2	›››5.0	1.9	1.0	›› 1.5	›››2.0	26.0	11.8	›››24.4	›››27.0
71 + years	5.6	3.9	› 4.9	›››5.8	2.1	3.1 *	1.7	2.2	29.6	18.0	26.1	›› 30.9
Total, age adjusted	3.9	3.0	›››3.5	›››4.1	1.6	1.3	1.4	› 1.6	19.0	12.9	›››18.6	›››19.8
Male												
2-3 years	6.6	5.7	6.2	›››7.2	2.9	2.5	2.6	›› 3.2	51.8	45.2	50.0	› 55.8
4-8 years	5.1	5.1	4.9	5.2	1.7	1.6	1.8	1.7	26.8	21.0	32.9	› 27.5
9-13 years	3.3	3.2	2.9	3.4	1.3	1.2	1.1	1.4	11.6	12.1	7.8 *	12.8
14-18 years	2.8	2.3	2.7	2.9	1.4	1.0	1.2	1.6	12.3	7.9 *	8.6 *	13.9
19-30 years	2.6	2.5	2.0	2.8	1.3	1.5 *	1.2	1.4	10.3	13.7	7.8	10.9
31-50 years	2.9	1.9	2.4	›››3.1	1.4	1.0	1.3	› 1.5	10.5	8.0	10.8	10.8
51-70 years	4.2	2.2	3.2	›››4.4	1.9	0.9	1.2	›››2.0	20.9	7.6 *	14.8	›››22.1
71 + years	4.8	3.6	3.6	› 5.1	2.3	6.8 *	1.4	2.2	22.7	15.3 *	15.6	24.2
Total, age adjusted	3.6	2.7	3.0	›››3.8	1.6	1.7	1.4	1.7	16.5	12.3	14.3	›››17.4
Female												
2-3 years	6.8	5.6	6.2	›››7.3	2.9	2.1	2.2	›››3.3	52.6	42.2	46.6	›› 56.9
4-8 years	4.8	4.1	4.9	›› 5.0	1.6	1.3	1.6	›› 1.7	24.2	18.3	28.6	› 25.4
9-13 years	4.0	3.8	3.9	4.0	1.4	1.6	1.3	1.5	16.2	16.5	11.0 *	17.2
14-18 years	2.8	2.4	3.6	2.8	1.1	1.2 *	1.5	1.0	11.1	10.3	20.1	9.3
19-30 years	2.9	2.3	› 3.2	› 2.9	1.1	0.8	› 1.3	› 1.1	12.1	7.5	13.8	11.8
31-50 years	3.5	2.5	2.7	›››3.8	1.4	1.0	1.2	›› 1.4	15.4	9.2	15.6	›› 16.1
51-70 years	5.2	3.4	›››5.1	›››5.4	1.9	1.1	›› 1.7	›››2.0	30.5	13.8	›››32.4	›››31.7
71 + years	6.0	4.1	› 5.4	›››6.3	2.0	1.2	›› 1.8	›››2.1	34.3	19.2	30.2	›››36.4
Total, age adjusted	4.2	3.1	›››3.9	›››4.3	1.5	1.1	›››1.4	›››1.6	21.1	13.2	›››21.8	›››21.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-45—Standard errors for Healthy Eating Index component scores and food pyramid servings for fruit[1]

	Standard error for mean HEI score				Standard error for number servings				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	0.18	0.33	0.36	0.20	0.13	0.18	0.16	0.17	2.1	3.4	3.7	2.2
4-8 years	0.20	0.25	0.35	0.23	0.08	0.09	0.13	0.10	1.8	1.8	4.1	2.0
9-13 years	0.17	0.28	0.24	0.24	0.09	0.20	0.10	0.12	1.6	2.3	2.1	2.2
14-18 years	0.17	0.25	0.46	0.23	0.09	0.22	0.24	0.11	1.3	1.9	4.1	1.5
19-30 years	0.11	0.21	0.25	0.14	0.06	0.13	0.16	0.08	1.0	1.6	2.0	1.2
31-50 years	0.10	0.23	0.24	0.11	0.05	0.13	0.15	0.06	0.8	2.0	2.2	0.9
51-70 years	0.09	0.26	0.29	0.11	0.07	0.10	0.13	0.07	1.0	1.8	3.2	1.1
71 + years	0.12	0.34	0.29	0.14	0.11	1.86	0.12	0.07	1.5	4.5	3.0	1.7
Total, age adjusted	0.07	0.12	0.13	0.08	0.04	0.17	0.07	0.04	0.5	1.0	1.3	0.6
Male												
2-3 years	0.22	0.44	0.53	0.23	0.16	0.25	0.26	0.18	2.8	4.6	5.9	3.1
4-8 years	0.25	0.32	0.53	0.29	0.10	0.10	0.21	0.12	2.4	2.2	6.3	2.7
9-13 years	0.18	0.34	0.36	0.23	0.11	0.15	0.17	0.15	1.4	2.7	2.9	2.0
14-18 years	0.21	0.43	0.33	0.26	0.13	0.22	0.14	0.17	2.0	3.5	2.2	2.4
19-30 years	0.12	0.49	0.25	0.18	0.09	0.48	0.22	0.11	1.0	5.2	1.8	1.4
31-50 years	0.15	0.35	0.33	0.16	0.08	0.24	0.24	0.09	1.2	2.9	2.9	1.2
51-70 years	0.13	0.39	0.46	0.14	0.09	0.19	0.19	0.11	1.3	2.4	4.0	1.4
71 + years	0.17	0.70	0.28	0.21	0.25	5.31	0.14	0.12	1.6	9.0	3.1	1.9
Total, age adjusted	0.07	0.17	0.13	0.08	0.05	0.47	0.10	0.05	0.6	1.4	1.2	0.7
Female												
2-3 years	0.20	0.37	0.45	0.25	0.18	0.21	0.23	0.25	2.4	4.4	4.8	3.0
4-8 years	0.24	0.38	0.47	0.26	0.10	0.15	0.16	0.11	1.8	3.1	5.1	2.3
9-13 years	0.25	0.34	0.42	0.35	0.12	0.34	0.13	0.16	2.4	3.5	2.5	3.4
14-18 years	0.20	0.31	0.72	0.28	0.10	0.36	0.39	0.11	1.8	2.9	7.2	1.8
19-30 years	0.14	0.26	0.34	0.16	0.07	0.09	0.21	0.07	1.4	1.9	3.5	1.6
31-50 years	0.12	0.25	0.33	0.14	0.06	0.14	0.17	0.07	1.2	2.3	3.2	1.3
51-70 years	0.14	0.27	0.37	0.17	0.09	0.10	0.19	0.09	1.5	2.2	4.8	1.7
71 + years	0.14	0.38	0.33	0.15	0.06	0.14	0.13	0.07	1.9	4.6	3.5	2.3
Total, age adjusted	0.09	0.13	0.20	0.10	0.04	0.06	0.10	0.05	0.7	1.1	2.1	0.8

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-46—Healthy Eating Index component scores and food pyramid servings for dairy[1]

	Mean HEI score				Mean # food pyramid servings				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	7.9	7.6	7.7	8.0	2.3	2.2	2.4	2.4	51.0	45.0	50.3	› 53.6
4-8 years	8.3	8.1	8.5	8.3	2.7	2.4	› 3.0	› 2.7	58.5	51.4	›› 64.2	59.1
9-13 years	7.3	6.7	7.3	›› 7.5	2.7	2.5	2.6	2.8	45.0	39.2	43.0	› 47.1
14-18 years	6.2	5.8	5.7	6.3	2.6	2.6	2.4	2.7	31.6	24.2	25.7	›› 34.3
19-30 years	6.4	5.7	6.1	›› 6.6	2.4	2.1	2.4	2.4	36.3	32.6	30.7	› 38.9
31-50 years	6.6	5.5	5.8	››› 6.8	2.1	1.8	2.1	› 2.1	39.5	28.4	36.4	››› 41.1
51-70 years	6.2	5.0	5.3	››› 6.4	1.9	1.5	1.5	› 1.9	34.4	25.2	25.8	››› 36.1
71 + years	6.2	5.5	5.6	›› 6.4	1.8	1.4	1.5	››› 1.8	33.1	26.9	27.9	34.8
Total, age adjusted	6.6	5.8	6.1	››› 6.8	2.2	1.9	2.1	››› 2.3	39.2	31.2	35.1	››› 41.0
Male												
2-3 years	8.0	7.6	7.6	› 8.3	2.4	2.2	2.4	›› 2.5	53.0	46.2	49.2	› 56.5
4-8 years	8.5	8.1	8.4	8.6	2.8	2.4	› 3.2	››› 2.9	62.9	52.7	› 67.2	64.0
9-13 years	7.8	7.0	›› 8.2	› 7.9	3.0	2.8	3.0	3.0	50.9	45.2	53.8	51.9
14-18 years	7.0	6.0	6.1	››› 7.3	3.1	2.4	2.7	››› 3.3	40.8	25.3	27.4	››› 46.8
19-30 years	6.9	6.0	6.7	› 7.0	2.7	2.3	2.8	2.8	42.7	36.1	37.4	45.7
31-50 years	6.9	6.3	6.0	7.0	2.4	2.4	2.4	2.4	45.2	39.1	41.2	46.0
51-70 years	6.6	4.8	5.4	››› 6.8	2.1	1.4	1.7	› 2.2	40.2	20.6	29.4	››› 42.4
71 + years	6.5	5.6	5.5	6.6	1.9	1.6 *	1.4	2.0	37.9	30.4	32.6	38.8
Total, age adjusted	7.0	6.1	6.4	››› 7.2	2.5	2.2	2.4	›› 2.6	44.9	35.2	39.8	››› 46.9
Female												
2-3 years	7.7	7.6	7.8	7.8	2.2	2.2	2.3	2.2	48.9	43.4	51.3	50.6
4-8 years	8.1	8.0	› 8.5	8.0	2.5	2.5	2.8	2.5	53.6	50.2	› 60.9	53.0
9-13 years	6.8	6.4	6.3	7.0	2.4	2.2	2.1	2.5	38.9	33.3	32.6	42.0
14-18 years	5.4	5.7	5.4	5.4	2.2	2.7	2.2	2.0	22.5	23.4	24.4	21.7
19-30 years	6.0	5.6	5.5	6.2	2.0	2.0	2.0	2.1	30.2	31.0	24.0	32.0
31-50 years	6.2	5.0	5.6	››› 6.4	1.8	1.4	1.8	››› 1.9	34.2	21.8	› 32.2	››› 36.2
51-70 years	5.9	5.1	5.2	›› 6.0	1.6	1.5	1.4	1.6	29.3	27.4	22.8	30.0
71 + years	6.0	5.5	5.6	› 6.2	1.6	1.4	1.6	› 1.7	29.8	25.2	26.1	31.5
Total, age adjusted	6.3	5.6	5.9	››› 6.4	1.9	1.8	1.9	› 2.0	33.8	28.5	31.0	››› 35.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-47—Standard errors for Healthy Eating Index component scores and food pyramid servings for dairy[1]

	Standard error for mean HEI score				Standard error for number servings				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	0.09	0.19	0.20	0.12	0.04	0.11	0.15	0.06	1.7	3.3	3.4	2.3
4-8 years	0.07	0.19	0.18	0.11	0.06	0.11	0.21	0.09	1.6	3.7	3.3	2.2
9-13 years	0.14	0.22	0.29	0.18	0.08	0.17	0.24	0.10	1.7	3.0	4.1	2.2
14-18 years	0.14	0.24	0.27	0.20	0.11	0.37	0.19	0.13	1.9	2.4	3.5	2.8
19-30 years	0.09	0.23	0.25	0.11	0.06	0.18	0.16	0.08	1.3	3.0	3.1	1.6
31-50 years	0.09	0.25	0.33	0.09	0.06	0.14	0.19	0.06	1.1	3.0	3.6	1.2
51-70 years	0.07	0.23	0.25	0.08	0.05	0.14	0.11	0.05	1.0	3.0	3.3	1.1
71 + years	0.08	0.31	0.21	0.07	0.03	0.12	0.08	0.04	1.0	4.3	2.5	1.2
Total, age adjusted	0.05	0.11	0.14	0.05	0.03	0.07	0.08	0.04	0.5	1.4	1.7	0.6
Male												
2-3 years	0.12	0.23	0.33	0.17	0.07	0.09	0.28	0.08	2.2	3.9	5.3	2.7
4-8 years	0.10	0.24	0.30	0.13	0.08	0.12	0.36	0.11	2.0	5.4	5.2	2.5
9-13 years	0.16	0.35	0.36	0.21	0.11	0.33	0.42	0.11	2.5	4.0	5.8	3.2
14-18 years	0.20	0.31	0.37	0.24	0.15	0.18	0.24	0.18	3.3	4.0	4.2	4.6
19-30 years	0.13	0.50	0.31	0.17	0.10	0.36	0.22	0.12	1.9	7.2	4.8	2.2
31-50 years	0.10	0.39	0.42	0.11	0.09	0.31	0.23	0.11	1.3	6.0	4.5	1.5
51-70 years	0.11	0.42	0.42	0.11	0.07	0.27	0.20	0.08	1.5	5.5	4.1	1.6
71 + years	0.13	0.69	0.30	0.15	0.07	0.28	0.09	0.08	2.0	7.3	3.6	2.3
Total, age adjusted	0.05	0.16	0.19	0.06	0.04	0.12	0.10	0.05	0.7	2.1	2.2	0.8
Female												
2-3 years	0.11	0.23	0.24	0.15	0.07	0.19	0.18	0.09	2.0	4.4	4.8	3.1
4-8 years	0.12	0.20	0.18	0.18	0.09	0.15	0.21	0.12	2.6	4.2	4.3	3.4
9-13 years	0.21	0.26	0.40	0.29	0.11	0.13	0.21	0.16	2.6	4.4	5.7	3.7
14-18 years	0.15	0.37	0.40	0.21	0.15	0.67	0.29	0.14	2.0	4.0	6.0	2.8
19-30 years	0.12	0.26	0.33	0.16	0.07	0.12	0.19	0.08	1.6	2.6	3.8	2.0
31-50 years	0.11	0.23	0.38	0.11	0.04	0.10	0.28	0.04	1.3	2.6	4.4	1.5
51-70 years	0.10	0.30	0.28	0.11	0.05	0.16	0.13	0.05	1.2	4.6	4.2	1.3
71 + years	0.13	0.33	0.27	0.14	0.05	0.11	0.10	0.06	1.6	4.8	3.2	2.1
Total, age adjusted	0.06	0.12	0.15	0.08	0.03	0.07	0.11	0.04	0.7	1.6	1.9	0.8

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-48—Healthy Eating Index component scores and food pyramid servings for meat[1]

	Mean HEI score				Mean # food pyramid servings				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	6.7	7.7	7.2	›››6.2	1.6	1.9	1.7	›››1.5	32.5	42.7	38.7	›››27.4
4-8 years	5.6	6.3	› 5.8	›››5.4	1.3	1.5	1.3	›› 1.3	18.6	23.0	18.5	› 17.0
9-13 years	6.2	6.6	6.5	› 6.0	1.7	1.8	1.8	1.7	27.0	35.0	27.6	› 24.8
14-18 years	6.5	6.9	6.7	6.4	2.1	2.1	2.1	2.1	32.3	35.4	32.1	31.4
19-30 years	7.1	7.2	6.9	7.1	2.4	2.6	2.4	2.5	37.8	38.4	37.9	38.1
31-50 years	7.2	7.2	7.3	7.2	2.4	2.4	2.4	2.4	38.0	37.7	39.2	37.6
51-70 years	7.0	6.9	› 6.4	7.2	2.1	2.1	1.8	2.1	35.9	34.1	30.7	37.1
71 + years	6.2	6.2	5.7	6.4	1.6	1.8	1.4	1.7	22.5	26.1	17.1	24.0
Total, age adjusted	6.8	7.0	› 6.7	6.8	2.1	2.2	2.0	2.1	33.4	35.0	32.7	33.1
Male												
2-3 years	6.8	8.0	› 7.3	›››6.2	1.6	2.0	1.8	›››1.5	33.8	46.0	40.2	›››27.6
4-8 years	5.7	6.5	5.9	›› 5.4	1.4	1.6	1.4	› 1.3	18.8	24.2	17.3	17.6
9-13 years	6.4	7.1	7.0	› 6.1	1.9	2.0	2.1	1.8	28.5	41.0	32.4	› 25.2
14-18 years	7.1	6.8	7.3	7.3	2.6	2.4	2.7	2.7	40.1	38.3	39.5	41.4
19-30 years	7.8	8.0	7.6	7.9	3.1	3.4	3.0	3.2	48.2	48.5	50.1	48.6
31-50 years	7.8	8.0	8.0	7.8	2.9	3.2	3.1	2.9	49.0	49.6	52.6	48.4
51-70 years	7.6	7.3	6.8	7.8	2.6	2.8	2.1	2.6	44.2	40.4	36.9	45.4
71 + years	6.8	6.7 *	6.0	7.0	2.0	2.4 *	1.7	2.0	27.6	32.9 *	20.3	28.6
Total, age adjusted	7.4	7.5	7.2	7.3	2.5	2.8	› 2.5	› 2.5	41.2	42.9	41.1	40.8
Female												
2-3 years	6.6	7.3	7.2	›› 6.2	1.6	1.7	1.7	› 1.5	31.2	38.5	37.4	27.2
4-8 years	5.6	6.2	5.6	›››5.3	1.3	1.4	1.3	› 1.2	18.3	21.9	19.8	16.2
9-13 years	5.9	6.1	5.9	5.8	1.6	1.6	1.4	1.6	25.5	29.1	22.9	24.4
14-18 years	5.9	6.9	6.2	›››5.5	1.6	1.9	1.6	›› 1.5	24.6	33.2	26.3	21.4
19-30 years	6.3	6.8	6.2	6.3	1.8	2.3	› 1.7	› 1.7	27.8	33.9	25.6	27.2
31-50 years	6.7	6.8	6.6	6.7	1.9	1.9	1.9	1.9	27.6	30.5	27.8	27.0
51-70 years	6.5	6.7	› 6.0	6.6	1.6	1.7	1.5	1.6	28.4	31.0	25.6	29.1
71 + years	5.8	6.0	5.6	5.8	1.4	1.5	1.3	1.4	19.1	22.8 *	15.9	20.3
Total, age adjusted	6.3	6.6	›› 6.2	›› 6.2	1.7	1.8	›››1.6	›››1.6	26.2	30.3	› 25.4	› 25.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-49—Standard errors for Healthy Eating Index component scores and food pyramid servings for meat[1]

	Standard error for mean HEI score				Standard error for number servings				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes												
2-3 years	0.10	0.17	0.25	0.14	0.04	0.07	0.09	0.06	1.7	3.0	4.1	2.3
4-8 years	0.10	0.15	0.19	0.14	0.03	0.07	0.06	0.04	1.1	2.0	2.4	1.4
9-13 years	0.12	0.24	0.22	0.16	0.05	0.08	0.10	0.07	1.4	3.1	3.9	2.1
14-18 years	0.16	0.28	0.35	0.16	0.08	0.13	0.15	0.10	2.3	5.1	4.0	2.5
19-30 years	0.11	0.25	0.21	0.15	0.07	0.19	0.13	0.09	1.6	3.3	3.0	1.8
31-50 years	0.09	0.21	0.18	0.10	0.05	0.13	0.11	0.06	1.4	3.7	3.3	1.6
51-70 years	0.06	0.21	0.22	0.09	0.04	0.16	0.11	0.05	1.1	4.0	3.4	1.3
71 + years	0.09	0.37	0.19	0.12	0.04	0.21	0.07	0.04	1.2	6.0	2.0	1.5
Total, age adjusted	0.04	0.11	0.09	0.05	0.03	0.07	0.06	0.03	0.6	1.6	1.6	0.8
Male												
2-3 years	0.14	0.18	0.31	0.23	0.05	0.08	0.12	0.08	1.9	2.9	5.3	2.7
4-8 years	0.14	0.32	0.27	0.18	0.04	0.12	0.09	0.05	1.4	3.2	3.8	2.0
9-13 years	0.18	0.36	0.30	0.22	0.08	0.14	0.14	0.12	2.1	5.9	6.9	2.8
14-18 years	0.19	0.40	0.39	0.19	0.10	0.18	0.24	0.12	2.8	5.6	5.0	3.4
19-30 years	0.15	0.39	0.30	0.18	0.11	0.31	0.18	0.13	2.3	6.8	3.9	2.6
31-50 years	0.12	0.28	0.22	0.14	0.07	0.23	0.16	0.08	2.1	5.7	3.9	2.3
51-70 years	0.10	0.38	0.31	0.12	0.08	0.51	0.16	0.09	2.0	7.2	4.8	2.3
71 + years	0.13	0.57	0.27	0.16	0.06	0.45	0.13	0.07	2.0	10.4	3.4	2.7
Total, age adjusted	0.06	0.15	0.10	0.06	0.04	0.13	0.08	0.04	0.9	2.9	2.3	1.0
Female												
2-3 years	0.14	0.34	0.34	0.16	0.05	0.11	0.11	0.06	2.3	5.6	5.3	2.9
4-8 years	0.12	0.14	0.28	0.18	0.04	0.05	0.08	0.05	1.6	2.5	3.9	2.1
9-13 years	0.16	0.30	0.38	0.22	0.06	0.09	0.13	0.09	2.1	4.2	3.6	3.0
14-18 years	0.21	0.33	0.52	0.21	0.07	0.13	0.17	0.07	2.5	6.0	5.7	2.6
19-30 years	0.12	0.24	0.26	0.19	0.06	0.25	0.12	0.08	1.6	3.6	3.8	2.3
31-50 years	0.10	0.23	0.20	0.12	0.04	0.11	0.08	0.05	1.4	3.8	3.2	1.7
51-70 years	0.08	0.29	0.26	0.10	0.03	0.13	0.11	0.03	1.3	4.9	3.9	1.6
71 + years	0.11	0.40	0.24	0.14	0.04	0.14	0.07	0.04	1.4	5.5	2.2	1.8
Total, age adjusted	0.05	0.12	0.10	0.06	0.02	0.06	0.04	0.02	0.6	1.9	1.3	0.8

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-50—Healthy Eating Index component scores for variety[1]

	Mean HEI score				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	7.4	7.2	7.3	7.6	48.2	44.0	43.7	50.9
4-8 years	7.9	7.8	8.2	7.9	55.7	53.9	56.8	56.4
9-13 years	8.0	7.7	7.9	8.2	57.4	53.4	53.2	59.3
14-18 years	7.2	6.8	6.8	7.4	48.6	42.1	40.8	50.6
19-30 years	7.4	6.6	7.3	›› 7.6	51.9	41.9	50.7	›› 54.1
31-50 years	7.7	6.0	›› 6.9	››› 8.0	56.2	35.0	›› 45.6	››› 59.5
51-70 years	7.9	6.3	6.5	››› 8.2	57.8	35.7	41.9	››› 62.0
71 + years	7.9	6.3	› 7.0	››› 8.3	57.7	33.7	41.1	››› 64.4
Total, age adjusted	7.7	6.6	››› 7.1	››› 8.0	55.1	39.8	››› 46.3	››› 58.2
Male								
2-3 years	7.6	7.7	› 6.9	7.8	50.3	50.6	38.8	53.0
4-8 years	8.1	8.0	8.2	8.1	58.2	53.5	59.4	60.3
9-13 years	8.1	8.0	8.5	8.1	57.8	54.2	62.4	57.8
14-18 years	7.7	6.6	7.0	››› 8.0	54.7	35.5	44.9	››› 58.3
19-30 years	7.8	7.2	7.5	8.0	57.3	49.1	50.6	60.3
31-50 years	8.0	5.9	› 7.3	››› 8.3	59.5	37.1	49.1	››› 62.4
51-70 years	8.0	6.0	6.6	››› 8.3	60.5	35.4	42.6	››› 64.0
71 + years	8.0	6.4	6.3	›› 8.4	59.1	39.8 *	38.4	›› 64.5
Total, age adjusted	8.0	6.6	›› 7.2	››› 8.2	58.3	41.9	› 48.2	››› 61.3
Female								
2-3 years	7.2	6.6	› 7.6	7.4	46.0	35.7	48.2	48.7
4-8 years	7.7	7.6	8.2	7.7	52.9	54.2	54.2	51.5
9-13 years	8.0	7.5	7.3	› 8.2	56.9	52.6	44.1	60.8
14-18 years	6.8	7.0	6.6	6.8	42.5	47.1	37.6	42.8
19-30 years	7.1	6.3	7.0	›› 7.3	46.8	38.8	› 50.8	47.8
31-50 years	7.5	6.2	6.6	››› 7.7	53.2	33.7	42.6	››› 56.6
51-70 years	7.8	6.5	6.4	››› 8.2	55.4	35.9	41.3	››› 60.0
71 + years	7.9	6.2	› 7.3	››› 8.3	56.8	30.7	42.1	››› 64.3
Total, age adjusted	7.5	6.5	› 6.9	››› 7.7	52.0	38.6	› 44.5	››› 55.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-51—Standard errors for Healthy Eating Index component scores for variety[1]

	Standard error for mean HEI score				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	0.10	0.21	0.22	0.18	1.6	3.2	3.8	2.7
4-8 years	0.10	0.21	0.16	0.14	1.6	3.3	3.4	2.3
9-13 years	0.09	0.18	0.23	0.12	1.7	3.7	4.3	2.2
14-18 years	0.18	0.31	0.28	0.23	2.8	4.0	5.1	3.4
19-30 years	0.08	0.30	0.18	0.10	1.4	4.1	2.6	1.6
31-50 years	0.07	0.23	0.23	0.07	1.2	3.0	3.2	1.3
51-70 years	0.07	0.24	0.24	0.07	1.3	3.7	3.7	1.3
71 + years	0.09	0.31	0.18	0.09	1.4	4.7	2.5	1.6
Total, age adjusted	0.04	0.10	0.10	0.05	0.8	1.6	1.6	0.8
Male								
2-3 years	0.12	0.21	0.29	0.24	1.7	3.6	4.6	3.3
4-8 years	0.14	0.22	0.22	0.18	2.3	4.6	4.2	3.2
9-13 years	0.14	0.23	0.33	0.20	2.8	5.0	8.2	3.4
14-18 years	0.18	0.36	0.36	0.23	2.9	4.5	6.1	3.5
19-30 years	0.12	0.47	0.22	0.14	1.9	5.9	3.5	2.4
31-50 years	0.10	0.53	0.24	0.10	1.8	5.6	3.5	2.0
51-70 years	0.09	0.53	0.38	0.10	1.7	6.0	5.5	1.8
71 + years	0.12	0.61	0.32	0.12	2.2	8.0	3.8	2.3
Total, age adjusted	0.05	0.17	0.11	0.05	0.8	2.2	1.7	0.9
Female								
2-3 years	0.18	0.34	0.28	0.25	2.8	5.5	5.0	4.0
4-8 years	0.15	0.32	0.19	0.18	2.4	4.8	5.1	3.1
9-13 years	0.10	0.28	0.33	0.13	2.0	4.7	6.0	2.8
14-18 years	0.22	0.42	0.43	0.27	3.2	5.4	7.6	4.1
19-30 years	0.09	0.32	0.25	0.12	1.6	4.3	3.7	1.9
31-50 years	0.10	0.25	0.33	0.12	1.7	4.5	4.5	1.9
51-70 years	0.10	0.25	0.27	0.10	1.6	3.8	3.9	1.7
71 + years	0.11	0.35	0.17	0.13	1.8	5.7	3.0	2.2
Total, age adjusted	0.06	0.10	0.14	0.06	1.0	2.0	2.2	1.0

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-52—Healthy Eating Index component scores for total fat[1]

	Mean HEI score				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	7.0	6.5	6.3	›› 7.3	33.7	25.9	29.3	›› 38.1
4-8 years	7.0	6.9	6.7	7.1	33.4	30.0	32.2	35.8
9-13 years	6.6	6.5	6.4	6.8	31.8	32.3	30.1	32.3
14-18 years	6.6	6.6	6.4	6.7	31.6	33.1	35.4	30.5
19-30 years	6.5	6.4	6.7	6.5	34.3	29.1	› 38.3	33.4
31-50 years	6.2	6.7	6.2	›› 6.1	32.2	39.3	32.5	› 31.6
51-70 years	6.6	6.4	6.8	6.5	37.6	35.3	42.4	36.6
71 + years	7.0	7.3	7.0	6.9	40.6	44.8	42.6	38.9
Total, age adjusted	6.5	6.6	6.5	6.5	34.3	35.2	36.0	34.0
Male								
2-3 years	7.0	6.6	6.2	› 7.3	32.1	23.8	26.1	›› 37.7
4-8 years	6.8	6.8	6.1	7.1	32.9	32.3	27.2	35.0
9-13 years	6.6	6.2	5.8	6.9	33.0	27.6	23.9	› 36.8
14-18 years	6.8	7.0	6.0	6.9	31.2	35.6	27.8	30.8
19-30 years	6.5	6.4	6.4	6.5	32.9	28.8	33.0	32.0
31-50 years	6.2	6.8	6.6	6.1	32.1	44.9	37.6	›› 30.8
51-70 years	6.3	5.6	6.4	6.3	34.0	30.7	37.9	32.9
71 + years	6.7	6.8	6.6	6.6	35.9	40.4	35.7	35.0
Total, age adjusted	6.4	6.5	6.4	6.5	33.0	35.6	33.8	32.8
Female								
2-3 years	6.9	6.4	6.4	› 7.2	35.4	28.5	32.2	38.6
4-8 years	7.1	6.9	7.3	7.2	34.0	27.9	37.6	36.8
9-13 years	6.7	6.8	6.9	6.6	30.5	36.9	36.1	› 27.5
14-18 years	6.4	6.3	6.7	6.4	32.0	31.3	41.3	30.2
19-30 years	6.6	6.4	7.0	6.6	35.7	29.2	› 43.6	34.8
31-50 years	6.1	6.7	›› 5.8	› 6.1	32.2	35.8	28.1	32.5
51-70 years	6.8	6.7	7.1	6.8	40.9	37.5	46.1	40.2
71 + years	7.2	7.6	7.2	7.1	43.7	46.9	45.3	42.0
Total, age adjusted	6.6	6.7	6.6	6.6	35.4	34.9	37.8	35.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-53—Standard errors for Healthy Eating Index component scores for total fat[1]

	Standard error for mean HEI score				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	0.12	0.26	0.30	0.14	1.6	2.9	3.5	2.4
4-8 years	0.12	0.16	0.28	0.19	1.7	2.8	3.5	2.4
9-13 years	0.11	0.24	0.23	0.13	1.4	2.5	3.0	1.7
14-18 years	0.12	0.22	0.34	0.16	1.9	3.4	5.4	2.2
19-30 years	0.13	0.25	0.17	0.16	1.4	3.2	2.6	1.8
31-50 years	0.12	0.21	0.25	0.15	1.4	3.1	3.3	1.7
51-70 years	0.10	0.26	0.24	0.11	1.4	3.9	3.4	1.4
71 + years	0.11	0.32	0.24	0.14	1.6	4.9	2.9	2.0
Total, age adjusted	0.06	0.10	0.12	0.08	0.8	1.8	1.8	0.9
Male								
2-3 years	0.13	0.33	0.34	0.16	1.8	3.1	3.7	3.1
4-8 years	0.19	0.29	0.41	0.24	2.4	5.0	4.6	3.0
9-13 years	0.13	0.46	0.42	0.16	1.7	3.3	5.7	2.3
14-18 years	0.17	0.39	0.43	0.22	2.6	6.8	6.9	3.2
19-30 years	0.17	0.44	0.27	0.19	2.0	4.7	4.3	2.2
31-50 years	0.16	0.35	0.32	0.18	1.9	5.3	4.8	2.1
51-70 years	0.15	0.54	0.38	0.16	1.9	5.9	5.6	2.0
71 + years	0.13	0.58	0.23	0.16	2.0	9.5	5.0	2.4
Total, age adjusted	0.09	0.20	0.17	0.09	1.0	2.5	2.6	1.1
Female								
2-3 years	0.19	0.36	0.44	0.22	2.5	4.8	5.4	3.1
4-8 years	0.12	0.27	0.27	0.23	2.0	3.7	4.6	3.3
9-13 years	0.16	0.29	0.35	0.21	2.5	3.9	5.5	2.9
14-18 years	0.20	0.40	0.45	0.25	2.6	4.8	6.6	3.2
19-30 years	0.16	0.28	0.27	0.21	1.9	3.9	4.6	2.4
31-50 years	0.13	0.23	0.26	0.17	1.6	3.2	3.2	2.0
51-70 years	0.12	0.27	0.25	0.15	1.6	4.9	3.7	1.9
71 + years	0.13	0.34	0.29	0.17	1.8	4.9	3.0	2.4
Total, age adjusted	0.06	0.11	0.11	0.09	0.9	2.0	1.9	1.1

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-54—Healthy Eating Index component scores for saturated fat[1]

	Mean HEI score				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	5.1	4.7	4.7	5.3	25.5	21.8	22.9	28.2
4-8 years	5.2	5.1	5.0	5.4	24.6	19.8	22.9	› 27.4
9-13 years	5.4	5.5	5.1	5.5	29.1	28.3	26.2	30.1
14-18 years	5.9	6.0	5.9	6.0	32.7	35.0	32.8	33.4
19-30 years	6.1	6.1	6.4	6.1	36.2	35.8	39.2	35.4
31-50 years	6.2	6.6	6.0	6.2	37.7	41.8	38.2	37.8
51-70 years	6.5	6.5	6.7	6.5	43.8	43.0	46.5	43.2
71 + years	7.0	6.8	6.9	7.0	45.4	49.5	46.6	44.6
Total, age adjusted	6.1	6.2	6.1	6.1	36.8	37.8	37.6	36.9
Male								
2-3 years	5.2	5.0	5.2	5.4	26.0	25.0	25.6	27.4
4-8 years	5.1	5.2	4.8	5.2	23.3	19.9	26.0	24.3
9-13 years	5.3	5.1	4.3	5.6	27.0	24.6	18.5	29.9
14-18 years	5.8	5.9	5.3	6.0	30.4	33.9	27.8	31.9
19-30 years	6.0	5.8	6.2	5.9	33.8	39.0	37.2	31.6
31-50 years	6.3	6.8	6.3	6.3	37.9	44.0	40.3	37.7
51-70 years	6.3	5.9	6.2	6.3	41.6	39.0	42.8	41.3
71 + years	6.7	5.8	6.7	6.8	41.4	37.4	41.0	42.4
Total, age adjusted	6.0	6.0	5.9	6.1	35.3	37.0	36.2	35.4
Female								
2-3 years	4.9	4.4	4.3	›› 5.2	25.0	17.6	20.4	› 29.1
4-8 years	5.4	5.0	5.1	5.7	26.0	19.8	19.5	›› 31.3
9-13 years	5.6	6.0	6.0	5.4	31.3	31.9	33.7	30.4
14-18 years	6.0	6.1	6.3	6.0	35.0	35.8	36.7	35.0
19-30 years	6.3	6.2	6.7	6.2	38.6	34.4	41.1	39.2
31-50 years	6.1	6.5	5.9	6.1	37.6	40.6	36.5	37.8
51-70 years	6.7	6.8	7.1	6.7	45.6	45.0	49.6	45.1
71 + years	7.1	7.3	6.9	7.1	48.0	55.3	48.8	46.4
Total, age adjusted	6.2	6.3	6.2	6.2	38.1	38.2	38.6	38.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-55—Standard errors for Healthy Eating Index component scores for saturated fat[1]

	Standard error for mean HEI score				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	0.15	0.24	0.33	0.22	1.4	2.9	3.0	2.0
4-8 years	0.15	0.22	0.30	0.24	1.3	2.2	3.2	2.2
9-13 years	0.14	0.24	0.31	0.16	1.7	2.6	3.0	2.1
14-18 years	0.17	0.28	0.40	0.21	1.9	3.7	4.8	2.3
19-30 years	0.16	0.29	0.25	0.18	1.7	3.3	3.3	1.8
31-50 years	0.10	0.23	0.35	0.12	1.2	3.0	3.9	1.3
51-70 years	0.11	0.29	0.23	0.12	1.3	3.8	3.4	1.4
71 + years	0.12	0.30	0.18	0.15	1.5	4.0	2.8	1.7
Total, age adjusted	0.08	0.12	0.17	0.08	0.8	1.5	2.0	0.9
Male								
2-3 years	0.17	0.34	0.38	0.29	1.8	3.5	4.0	3.1
4-8 years	0.22	0.30	0.42	0.33	2.1	3.3	3.8	3.0
9-13 years	0.17	0.36	0.55	0.19	1.8	4.1	4.7	2.2
14-18 years	0.23	0.45	0.53	0.29	2.7	5.7	6.5	3.3
19-30 years	0.20	0.62	0.34	0.22	2.1	7.5	4.5	2.2
31-50 years	0.13	0.34	0.47	0.14	1.6	4.7	5.4	1.9
51-70 years	0.14	0.51	0.39	0.15	2.1	5.7	5.8	2.0
71 + years	0.13	0.64	0.25	0.15	1.9	7.8	3.8	2.4
Total, age adjusted	0.09	0.20	0.23	0.09	1.0	2.4	3.0	1.0
Female								
2-3 years	0.21	0.25	0.50	0.27	2.3	3.0	4.7	3.4
4-8 years	0.17	0.38	0.39	0.27	1.8	3.1	4.8	2.8
9-13 years	0.23	0.30	0.40	0.29	3.0	3.5	5.3	3.4
14-18 years	0.20	0.44	0.53	0.27	2.2	5.4	6.3	3.3
19-30 years	0.16	0.39	0.31	0.19	2.0	3.9	4.4	2.4
31-50 years	0.11	0.26	0.38	0.13	1.3	3.6	3.8	1.6
51-70 years	0.13	0.34	0.27	0.16	1.2	4.9	3.4	1.6
71 + years	0.15	0.37	0.22	0.19	1.9	5.0	3.1	2.4
Total, age adjusted	0.08	0.14	0.18	0.09	0.9	1.6	1.8	1.0

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-56—Healthy Eating Index component scores for cholesterol[1]

	Mean HEI score				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	9.0	8.2	8.7	›››9.4	83.1	72.9	78.4	›››88.4
4-8 years	8.7	8.5	8.5	8.9	81.2	78.7	79.2	82.9
9-13 years	8.2	8.0	8.2	8.4	75.1	72.3	75.9	76.3
14-18 years	7.9	7.4	7.7	8.0	70.2	63.3	69.7	71.4
19-30 years	7.2	6.8	6.7	7.3	62.2	58.2	56.1	64.0
31-50 years	7.4	6.9	6.6	7.5	64.8	63.1	56.5	66.2
51-70 years	7.9	7.0	› 8.0	›› 8.0	70.8	62.7	70.2	› 71.5
71 + years	8.5	7.9	8.7	8.4	77.3	72.4	78.4	76.7
Total, age adjusted	7.8	7.3	7.5	›››7.9	69.6	65.3	65.8	›››70.9
Male								
2-3 years	8.9	8.1	8.6	›› 9.3	81.9	72.8	76.2	›› 87.3
4-8 years	8.6	8.4	8.5	8.6	79.4	76.4	79.8	80.3
9-13 years	7.9	7.6	7.5	8.1	70.8	68.1	67.5	72.9
14-18 years	7.1	6.9	6.7	7.0	60.3	57.6	56.3	59.4
19-30 years	6.1	5.9	5.6	6.1	49.5	47.9	44.1	49.5
31-50 years	6.6	5.0	5.9	›› 6.7	54.8	42.8	47.9	56.2
51-70 years	7.0	5.5	› 7.3	› 7.1	60.4	49.1	63.1	60.6
71 + years	7.5	6.1 *	7.5	7.5	65.2	48.4 *	64.2	65.4
Total, age adjusted	7.0	6.0	› 6.7	›››7.1	60.3	51.8	56.9	›› 61.2
Female								
2-3 years	9.1	8.4	8.7	›››9.4	84.3	72.9	80.3	›››89.6
4-8 years	8.9	8.6	8.6	9.1	83.2	80.7	78.6	86.1
9-13 years	8.6	8.4	8.9	8.7	79.6	76.4	84.2	80.0
14-18 years	8.6	7.8	8.5	› 8.9	80.0	67.5	80.3	› 83.5
19-30 years	8.2	7.3	7.9	›››8.5	74.4	62.8	68.2	›››78.8
31-50 years	8.1	8.1	› 7.2	8.2	74.3	75.5	› 63.9	76.0
51-70 years	8.7	7.8	8.6	› 8.8	80.0	69.3	76.1	› 81.9
71 + years	9.1	8.8	9.2	9.2	85.5	83.9 *	84.0	86.0
Total, age adjusted	8.5	8.0	8.1	›››8.7	78.2	72.8	73.0	›››80.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-57—Standard errors for Healthy Eating Index component scores for cholesterol[1]

	Standard error for mean HEI score				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	0.08	0.21	0.23	0.10	1.1	2.4	3.0	1.6
4-8 years	0.12	0.24	0.23	0.17	1.6	3.0	2.5	2.1
9-13 years	0.13	0.28	0.31	0.17	1.5	3.4	3.8	2.0
14-18 years	0.14	0.28	0.32	0.17	1.9	4.1	3.9	2.5
19-30 years	0.13	0.33	0.33	0.15	1.6	3.8	3.4	1.8
31-50 years	0.11	0.33	0.29	0.12	1.4	3.6	3.3	1.4
51-70 years	0.09	0.38	0.19	0.10	1.0	4.2	2.5	1.2
71 + years	0.07	0.35	0.17	0.11	1.1	4.4	2.4	1.5
Total, age adjusted	0.06	0.15	0.13	0.07	0.6	1.7	1.5	0.7
Male								
2-3 years	0.13	0.35	0.31	0.16	1.8	3.4	4.6	2.5
4-8 years	0.16	0.32	0.28	0.25	1.8	3.7	3.0	2.8
9-13 years	0.20	0.38	0.57	0.25	2.2	4.6	6.5	2.8
14-18 years	0.24	0.44	0.40	0.27	3.1	4.8	4.7	3.9
19-30 years	0.18	0.68	0.45	0.20	2.1	8.9	4.6	2.2
31-50 years	0.18	0.62	0.40	0.20	2.2	6.3	4.6	2.4
51-70 years	0.14	0.80	0.30	0.16	1.5	7.6	4.2	1.8
71 + years	0.16	0.69	0.30	0.21	1.8	9.0	4.5	2.3
Total, age adjusted	0.08	0.30	0.17	0.09	0.9	3.0	2.1	1.0
Female								
2-3 years	0.09	0.23	0.27	0.12	1.4	4.1	3.7	2.0
4-8 years	0.14	0.23	0.37	0.19	1.8	3.1	4.1	2.3
9-13 years	0.12	0.39	0.23	0.14	1.6	4.5	2.7	2.1
14-18 years	0.16	0.41	0.39	0.19	2.3	6.1	5.2	2.7
19-30 years	0.14	0.33	0.38	0.17	1.6	3.0	4.0	2.1
31-50 years	0.10	0.27	0.37	0.11	1.2	3.4	4.0	1.2
51-70 years	0.10	0.49	0.27	0.10	1.2	5.3	3.5	1.4
71 + years	0.08	0.34	0.18	0.11	1.2	4.1	2.6	1.8
Total, age adjusted	0.05	0.15	0.15	0.06	0.6	1.6	1.7	0.7

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-58—Healthy Eating Index component scores for sodium[1]

	Mean HEI score				Percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	8.7	8.1	8.3	›››8.9	65.0	54.6	59.9	›››69.6
4-8 years	7.4	6.9	6.8	› 7.6	40.1	34.2	32.2	› 43.0
9-13 years	6.0	5.9	6.1	6.0	29.6	32.8	29.3	28.8
14-18 years	5.2	5.3	5.8	5.1	28.6	29.2	28.7	29.0
19-30 years	5.2	5.6	5.6	5.0	26.9	27.5	31.4	25.6
31-50 years	5.5	6.2	5.8	›› 5.4	27.8	37.9	33.4	›››26.4
51-70 years	6.6	7.1	7.0	6.5	37.5	50.2	46.1	›››35.1
71 + years	7.6	7.8	8.4	7.3	46.6	54.4	58.6	› 42.4
Total, age adjusted	6.1	6.4	6.4	›››6.0	33.7	39.2	37.9	›››32.6
Male								
2-3 years	8.6	8.1	8.2	›› 8.8	61.7	49.0	55.6	›› 68.0
4-8 years	6.8	6.3	6.1	7.1	34.3	33.2	23.3	35.4
9-13 years	5.2	5.5	4.9	5.2	24.7	29.5	22.8	23.7
14-18 years	3.8	5.0	4.7	›› 3.3	15.8	28.7	19.2	›› 12.0
19-30 years	3.8	4.1	4.1	3.6	15.8	15.4	16.2	15.2
31-50 years	4.0	4.4	4.3	3.9	16.1	23.6	21.3	15.0
51-70 years	5.3	6.4	5.4	5.2	23.7	42.4	30.2	›› 21.6
71 + years	6.4	6.4 *	7.5	6.1	32.4	35.2	44.9	29.8
Total, age adjusted	4.9	5.3	5.1	› 4.8	22.6	29.2	25.6	›› 21.6
Female								
2-3 years	8.8	8.2	8.5	› 9.1	68.7	61.8	63.8	71.3
4-8 years	7.9	7.4	7.6	›››8.2	46.6	35.1	41.8	›››52.3
9-13 years	6.7	6.3	› 7.3	6.7	34.7	36.1	35.6	34.2
14-18 years	6.6	5.6	6.8	› 6.9	41.2	29.5	36.0	›› 46.3
19-30 years	6.5	6.3	› 7.2	6.4	37.4	32.8	›› 46.7	36.3
31-50 years	6.8	7.3	7.1	6.8	38.9	46.6	43.7	› 37.5
51-70 years	7.8	7.5	8.3	7.7	49.8	54.0	59.3	48.0
71 + years	8.4	8.5	8.8	8.2	56.2	63.7	64.0	52.7
Total, age adjusted	7.2	7.1	› 7.6	7.2	43.8	44.9	48.3	43.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-59—Standard errors for Healthy Eating Index component scores for sodium[1]

	Standard error for mean HEI score				Standard error for percent meeting HEI recommendations			
	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant	Total persons	Currently Receiving Food Stamps	Income eligible non-participant	Higher income non-participant
Both sexes								
2-3 years	0.09	0.20	0.25	0.12	1.5	3.2	4.4	2.1
4-8 years	0.12	0.28	0.24	0.13	2.0	3.7	2.9	2.6
9-13 years	0.15	0.22	0.27	0.20	1.6	2.1	3.4	2.4
14-18 years	0.21	0.40	0.36	0.27	2.1	3.6	4.5	2.8
19-30 years	0.10	0.28	0.24	0.15	1.0	3.0	2.8	1.2
31-50 years	0.11	0.25	0.26	0.12	1.2	2.3	3.0	1.4
51-70 years	0.09	0.34	0.27	0.11	1.1	4.1	3.2	1.2
71 + years	0.10	0.38	0.17	0.11	1.7	4.9	2.8	1.8
Total, age adjusted	0.06	0.11	0.11	0.07	0.7	1.2	1.4	0.8
Male								
2-3 years	0.12	0.17	0.39	0.20	2.0	4.9	5.8	3.1
4-8 years	0.17	0.45	0.34	0.20	2.9	6.4	3.3	3.7
9-13 years	0.22	0.36	0.34	0.29	2.5	4.5	4.4	3.6
14-18 years	0.22	0.47	0.51	0.26	2.2	5.6	6.5	2.6
19-30 years	0.14	0.48	0.32	0.22	1.4	4.5	2.6	1.7
31-50 years	0.15	0.43	0.31	0.16	1.4	5.5	3.0	1.5
51-70 years	0.14	0.70	0.40	0.15	1.4	6.4	4.2	1.4
71 + years	0.14	0.70	0.29	0.17	1.7	7.0	4.2	2.1
Total, age adjusted	0.08	0.21	0.15	0.09	0.8	2.2	1.4	0.9
Female								
2-3 years	0.15	0.40	0.35	0.14	2.4	4.6	6.0	3.3
4-8 years	0.12	0.21	0.23	0.14	2.2	4.1	4.1	2.6
9-13 years	0.15	0.36	0.27	0.22	2.0	3.7	5.2	2.8
14-18 years	0.25	0.49	0.49	0.29	3.0	4.2	5.3	3.9
19-30 years	0.13	0.27	0.27	0.20	1.4	3.5	4.2	1.8
31-50 years	0.11	0.26	0.30	0.13	1.6	3.8	4.3	1.8
51-70 years	0.08	0.34	0.27	0.12	1.4	4.7	4.2	1.7
71 + years	0.11	0.32	0.16	0.14	2.2	5.7	3.1	2.8
Total, age adjusted	0.06	0.12	0.14	0.08	0.8	1.8	2.0	0.9

[1] See Table D-35 for sample sizes.

Source: NHANES-III, 1988-94: Healthy Eating Index Data File. Total includes persons with missing food stamp participation or income.

Table D-60—Mean percent of usual energy intake from total fat

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
2-3 years	2,174	32.9	0.19	739	34.1	0.34	446	34.4	0.35	867	›››32.1	0.25
4-8 years	3,448	33.2	0.15	1,068	33.7	0.26	712	34.1	0.33	1,470	›› 32.7	0.23
9-13 years	2,457	33.7	0.15	663	34.3	0.42	–	–	–	1,113	33.5	0.20
14-18 years	1,936	33.7	0.19	484	33.3	0.36	431	33.9	0.44	871	33.6	0.24
19-30 years	4,103	33.4	0.18	756	33.5	0.27	962	32.9	0.29	2,078	33.6	0.23
31-50 years	5,588	34.3	0.19	831	32.8	0.32	935	33.7	0.46	3,469	›››34.5	0.23
51-70 years	4,019	33.0	0.17	453	33.3	0.51	687	› 31.9	0.46	2,533	33.1	0.19
71 + years	2,623	32.2	0.19	239	31.1	0.66	571	31.8	0.33	1,525	› 32.6	0.23
Total, age adjusted	26,348	33.5	0.08	5,233	33.1	0.16	5,282	33.2	0.17	13,926	›› 33.6	0.10
Males												
2-3 years	1,076	32.8	0.21	389	33.8	0.42	217	34.5	0.48	417	›››32.1	0.27
4-8 years	1,707	33.3	0.26	500	33.7	0.38	346	› 35.1	0.50	756	› 32.6	0.36
9-13 years	1,219	33.8	0.24	–	–	–	256	35.3	0.49	555	33.1	0.29
14-18 years	908	33.2	0.31	216	32.7	0.73	203	› 34.8	0.65	403	32.9	0.37
19-30 years	1,902	33.6	0.25	241	33.1	0.52	483	33.5	0.53	1,012	33.9	0.28
31-50 years	2,533	34.3	0.27	281	32.4	0.67	437	32.8	0.70	1,656	›› 34.6	0.29
51-70 years	1,942	33.7	0.24	183	34.6	0.88	324	33.0	0.69	1,284	33.9	0.26
71 + years	1,255	33.2	0.24	106	32.3	1.07	232	32.9	0.44	798	33.3	0.28
Total, age adjusted	12,542	33.8	0.11	2,450	33.5	0.25	2,498	33.5	0.28	6,881	33.8	0.12
Females												
2-3 years	1,098	33.0	0.28	350	34.4	0.50	229	34.4	0.57	450	›››32.1	0.37
4-8 years	1,741	33.1	0.16	568	33.7	0.38	366	33.1	0.41	714	› 32.8	0.26
9-13 years	1,238	33.6	0.21	325	32.9	0.39	–	–	–	558	› 34.0	0.24
14-18 years	1,028	34.1	0.32	268	33.9	0.56	228	33.2	0.64	468	34.4	0.39
19-30 years	2,201	33.2	0.22	515	33.7	0.37	479	› 32.2	0.46	1,066	33.2	0.32
31-50 years	3,055	34.2	0.19	550	33.0	0.33	498	›› 34.5	0.42	1,813	›› 34.3	0.26
51-70 years	2,077	32.3	0.20	270	32.6	0.55	363	› 30.9	0.59	1,249	32.5	0.25
71 + years	1,368	31.5	0.20	133	30.5	0.82	339	31.4	0.37	727	32.0	0.27
Total, age adjusted	13,806	33.3	0.09	2,979	33.0	0.18	2,784	32.9	0.21	7,045	› 33.4	0.12

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-61—Percent of persons meeting Dietary Guidelines recommendation for usual intake of total fat[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
2-3 years	2,174	24.4	1.33	739	19.0	2.05	446	›››7.8	1.66	867	›››30.9	2.11
4-8 years	3,448	18.6	1.21	1,068	9.5	1.44	712	13.5	2.17	1,470	›››24.1	1.97
9-13 years	2,457	14.6	1.27	663	16.2	1.96	–	–	–	1,113	15.2	1.67
14-18 years	1,936	19.4	1.20	484	7.5	2.62	431	›› 18.0	2.99	871	›››21.3	1.46
19-30 years	4,103	22.5	1.28	756	22.2	1.91	962	› 28.6	1.97	2,078	19.5	1.66
31-50 years	5,588	19.9	1.06	831	25.6	2.61	935	24.0	2.62	3,469	› 19.3	1.21
51-70 years	4,019	31.2	1.07	453	25.2	3.54	687	›› 39.1	2.65	2,533	29.8	1.18
71 + years	2,623	35.0	1.30	239	41.4	5.23	571	39.1	2.10	1,525	32.2	1.55
Total, age adjusted	26,348	23.3	0.48	5,233	23.0	1.21	5,282	› 26.4	1.05	13,926	22.9	0.58
Males												
2-3 years	1,076	23.6	1.67	389	19.6	2.84	217	›››6.2	2.62	417	›› 29.9	2.50
4-8 years	1,707	16.6	2.15	500	6.2	2.04	346	9.6	2.56	756	›››23.2	3.27
9-13 years	1,219	10.5	1.80	–	–	–	256	0.2	0.51	555	16.8	2.69
14-18 years	908	21.2	2.45	216	23.6	6.89	203	12.5	3.89	403	22.7	3.03
19-30 years	1,902	16.7	1.72	241	15.6	4.19	483	22.4	3.75	1,012	12.3	1.88
31-50 years	2,533	20.1	1.50	281	30.9	5.31	437	31.1	4.28	1,656	› 18.2	1.53
51-70 years	1,942	27.0	1.55	183	15.8	5.30	324	› 32.7	3.88	1,284	25.8	1.61
71 + years	1,255	28.6	1.71	106	34.0	6.98	232	31.5	2.85	798	27.4	1.91
Total, age adjusted	12,542	20.7	0.70	2,450	19.5	1.78	2,498	24.0	1.70	6,881	20.4	0.77
Females												
2-3 years	1,098	25.5	1.96	350	19.5	2.93	229	› 10.0	2.79	450	›› 31.9	2.98
4-8 years	1,741	20.5	1.15	568	12.1	2.63	366	19.3	2.82	714	›››24.8	1.89
9-13 years	1,238	18.2	1.51	325	28.2	2.71	–	–	–	558	›››13.3	1.63
14-18 years	1,028	17.8	1.70	268	18.7	3.85	228	23.8	4.41	468	19.4	1.94
19-30 years	2,201	26.7	1.54	515	22.3	2.47	479	›› 34.2	3.29	1,066	25.1	2.19
31-50 years	3,055	19.8	1.07	550	19.9	2.65	498	16.6	2.42	1,813	20.3	1.38
51-70 years	2,077	34.9	1.23	270	30.8	3.94	363	›› 44.2	3.36	1,249	33.4	1.55
71 + years	1,368	39.3	1.42	133	47.7	4.55	339	41.9	2.51	727	› 36.3	1.85
Total, age adjusted	13,806	25.4	0.53	2,979	24.7	1.30	2,784	› 28.3	1.30	7,045	24.9	0.70

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Recommended intake of total fat is less than or equal to 30 percent of total calories.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-62—Distribution of usual intake of total fat as a percent of usual energy intake

Both sexes

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	25.7	27.4	28.5	30.1	33.0	35.8	37.3	38.3	39.8	0.23	0.21	0.20	0.19	0.19	0.20	0.20	0.21	0.21
4-8 years	27.3	28.6	29.5	30.8	33.2	35.6	36.9	37.8	39.2	0.18	0.17	0.16	0.15	0.15	0.15	0.16	0.17	0.18
9-13 years	27.8	29.2	30.1	31.4	33.7	36.1	37.4	38.3	39.5	0.23	0.21	0.20	0.18	0.15	0.14	0.13	0.14	0.15
14-18 years	26.6	28.2	29.3	30.8	33.7	36.5	38.1	39.1	40.7	0.22	0.20	0.19	0.19	0.19	0.21	0.22	0.24	0.26
19-30 years	25.8	27.5	28.7	30.4	33.5	36.5	38.1	39.1	40.7	0.23	0.22	0.21	0.20	0.18	0.18	0.18	0.18	0.18
31-50 years	25.8	27.7	29.0	30.9	34.3	37.7	39.5	40.7	42.5	0.20	0.20	0.20	0.20	0.19	0.19	0.20	0.20	0.21
51-70 years	23.0	25.2	26.7	28.9	33.0	37.0	39.2	40.6	42.8	0.22	0.21	0.20	0.19	0.17	0.15	0.15	0.16	0.18
71 + years	22.7	24.8	26.2	28.3	32.2	36.1	38.2	39.6	41.6	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.20
Persons currently receiving food stamps																		
2-3 years	26.1	28.0	29.2	31.0	34.2	37.3	38.9	40.1	41.7	0.46	0.41	0.38	0.36	0.36	0.37	0.36	0.36	0.36
4-8 years	29.1	30.1	30.8	31.8	33.6	35.6	36.6	37.3	38.4	0.24	0.24	0.24	0.24	0.26	0.29	0.31	0.32	0.34
9-13 years	27.2	28.8	29.8	31.3	34.2	37.1	38.7	39.9	41.7	0.32	0.31	0.31	0.32	0.39	0.51	0.60	0.68	0.82
14-18 years	29.5	30.4	30.9	31.8	33.4	34.9	35.7	36.3	37.1	0.45	0.43	0.42	0.40	0.36	0.34	0.33	0.33	0.32
19-30 years	25.2	27.3	28.6	30.5	33.7	36.7	38.3	39.4	41.0	0.43	0.39	0.36	0.32	0.27	0.27	0.28	0.30	0.32
31-50 years	25.9	27.4	28.4	29.9	32.8	35.6	37.1	38.2	39.7	0.39	0.36	0.35	0.34	0.33	0.33	0.33	0.33	0.35
51-70 years	24.8	26.8	28.1	30.0	33.4	36.7	38.4	39.6	41.3	0.65	0.61	0.59	0.56	0.51	0.50	0.50	0.50	0.51
71 + years	22.8	24.6	25.9	27.7	31.1	34.5	36.3	37.5	39.3	0.74	0.72	0.70	0.69	0.68	0.66	0.65	0.64	0.63
Income-eligible, food stamp nonparticipants																		
2-3 years	›››29.3	›››30.4	›› 31.2	32.4	34.5	36.6	37.6	›› 38.4	›››39.4	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.38	0.39
4-8 years	28.2	29.4	30.2	31.6	34.1	36.6	› 38.0	›› 39.0	›› 40.4	0.32	0.34	0.34	0.35	0.34	0.34	0.35	0.36	0.40
9-13 years	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
14-18 years	›››26.8	› 28.4	29.5	31.0	34.0	›› 36.8	›››38.4	›››39.4	›››40.9	0.52	0.51	0.50	0.50	0.49	0.44	0.42	0.42	0.44
19-30 years	24.2	26.2	27.5	29.4	32.9	36.4	38.2	39.4	41.2	0.35	0.33	0.32	0.31	0.30	0.30	0.31	0.32	0.34
31-50 years	24.5	26.6	28.1	30.2	34.0	›› 37.5	›› 39.3	›››40.5	›››42.2	0.49	0.49	0.49	0.48	0.47	0.46	0.47	0.48	0.50
51-70 years	›››20.8	›››23.2	›››24.8	›› 27.3	31.9	36.5	38.9	40.5	42.8	0.57	0.55	0.53	0.50	0.46	0.46	0.48	0.49	0.51
71 + years	21.3	23.6	25.1	27.5	31.8	36.2	› 38.5	›› 40.1	›››42.5	0.46	0.42	0.40	0.37	0.34	0.35	0.38	0.40	0.46
Higher-income, food stamp nonparticipants																		
2-3 years	24.9	› 26.6	›› 27.6	›››29.2	›››32.1	›››35.0	›››36.5	›››37.5	›››39.0	0.31	0.29	0.28	0.27	0.26	0.25	0.25	0.25	0.27
4-8 years	›››26.4	›››27.8	›››28.7	›››30.1	› 32.6	35.2	36.6	37.5	38.9	0.26	0.25	0.24	0.24	0.24	0.25	0.26	0.28	0.30
9-13 years	27.8	29.1	30.0	31.2	33.6	35.9	37.1	› 37.9	› 39.2	0.30	0.27	0.25	0.23	0.19	0.17	0.18	0.18	0.19
14-18 years	›››26.0	›››27.7	›››28.9	30.6	33.6	›››36.7	›››38.4	›››39.5	›››41.3	0.30	0.26	0.24	0.23	0.23	0.27	0.30	0.32	0.36
19-30 years	26.6	28.2	29.2	30.8	33.6	36.4	37.9	38.9	40.3	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.22	0.22
31-50 years	25.9	27.8	29.1	31.0	›››34.5	›››38.0	›››39.8	›››41.1	›››42.9	0.24	0.24	0.24	0.23	0.23	0.24	0.24	0.25	0.26
51-70 years	23.4	25.5	27.0	29.1	33.2	37.1	39.3	40.7	42.8	0.24	0.23	0.22	0.21	0.19	0.18	0.18	0.20	0.24
71 + years	23.3	25.3	26.7	28.8	32.6	36.4	› 38.4	›› 39.8	›› 41.8	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.25

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-62—Distribution of usual intake of total fat as a percent of usual energy intake — Continued

Male

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	25.9	27.6	28.6	30.2	33.0	35.6	37.0	38.0	39.4	0.30	0.27	0.25	0.23	0.20	0.20	0.22	0.23	0.26
4-8 years	27.7	28.9	29.8	31.0	33.3	35.5	36.7	37.5	38.7	0.31	0.30	0.29	0.28	0.26	0.24	0.24	0.24	0.25
9-13 years	28.8	29.9	30.7	31.7	33.8	35.9	37.0	37.8	39.0	0.30	0.28	0.27	0.26	0.23	0.22	0.23	0.24	0.28
14-18 years	26.4	28.0	29.0	30.5	33.3	35.9	37.4	38.3	39.8	0.40	0.38	0.36	0.34	0.31	0.31	0.31	0.31	0.32
19-30 years	27.3	28.8	29.7	31.1	33.7	36.2	37.5	38.4	39.7	0.28	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.27
31-50 years	25.7	27.6	28.9	30.9	34.4	37.9	39.7	40.9	42.7	0.30	0.29	0.28	0.28	0.27	0.27	0.27	0.28	0.29
51-70 years	23.6	25.9	27.4	29.6	33.7	37.8	39.9	41.4	43.5	0.32	0.32	0.31	0.30	0.26	0.22	0.22	0.23	0.27
71 + years	23.8	25.9	27.3	29.4	33.2	37.0	39.0	40.4	42.4	0.33	0.32	0.31	0.30	0.26	0.22	0.21	0.21	0.22
Persons currently receiving food stamps																		
2-3 years	25.8	27.8	29.1	30.9	34.0	37.0	38.6	39.7	41.2	0.66	0.58	0.53	0.47	0.42	0.42	0.42	0.41	0.40
4-8 years	29.7	30.6	31.2	32.0	33.6	35.3	36.2	36.8	37.7	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.40
9-13 years	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
14-18 years	26.7	28.0	28.9	30.2	32.6	35.2	36.5	37.5	38.9	0.90	0.86	0.83	0.80	0.75	0.69	0.66	0.64	0.61
19-30 years	27.9	29.1	29.9	31.1	33.2	35.2	36.3	36.9	38.0	0.62	0.59	0.57	0.55	0.54	0.54	0.54	0.55	0.58
31-50 years	24.8	26.4	27.5	29.2	32.3	35.5	37.3	38.5	40.2	0.79	0.75	0.73	0.71	0.69	0.68	0.69	0.70	0.72
51-70 years	26.5	28.5	29.8	31.7	34.9	37.8	39.3	40.2	41.6	1.05	1.05	1.04	1.01	0.92	0.81	0.76	0.73	0.70
71 + years	22.2	24.4	26.0	28.3	32.6	36.5	38.5	39.7	41.4	1.30	1.31	1.31	1.29	1.18	1.03	0.95	0.91	0.87
Income-eligible, food stamp nonparticipants																		
2-3 years	›››29.7	›› 30.8	› 31.5	32.6	34.6	36.4	37.4	38.0	›› 38.9	0.61	0.58	0.56	0.52	0.48	0.46	0.46	0.47	0.48
4-8 years	28.7	30.1	31.1	32.5	35.1	›› 37.7	››› 39.0	››› 40.0	››› 41.5	0.53	0.54	0.54	0.54	0.50	0.49	0.51	0.53	0.58
9-13 years	32.5	33.1	33.6	34.2	35.3	36.4	37.0	37.3	37.9	0.60	0.58	0.57	0.55	0.50	0.45	0.42	0.40	0.38
14-18 years	27.8	29.4	30.5	32.1	35.0	37.7	› 39.1	› 40.1	› 41.4	0.92	0.85	0.81	0.76	0.66	0.59	0.56	0.54	0.53
19-30 years	25.4	27.3	28.6	30.4	33.7	36.7	› 38.3	›› 39.4	››› 41.1	0.73	0.69	0.66	0.62	0.53	0.47	0.46	0.47	0.48
31-50 years	22.8	25.1	26.6	28.9	33.0	36.9	38.9	40.2	42.2	0.82	0.80	0.79	0.76	0.72	0.69	0.71	0.74	0.79
51-70 years	›› 22.0	› 24.4	› 26.0	28.4	33.1	37.6	39.9	41.4	43.7	0.82	0.80	0.79	0.78	0.73	0.67	0.65	0.64	0.63
71 + years	21.7	24.4	26.1	28.7	33.2	37.3	39.5	41.0	43.4	0.82	0.71	0.64	0.57	0.47	0.39	0.43	0.49	0.62
Higher-income, food stamp nonparticipants																		
2-3 years	25.3	26.8	27.9	29.4	›› 32.1	››› 34.8	››› 36.2	››› 37.2	››› 38.6	0.40	0.36	0.33	0.30	0.27	0.26	0.27	0.29	0.33
4-8 years	›››26.6	››› 27.9	››› 28.9	›› 30.2	32.7	35.0	36.3	37.1	38.3	0.41	0.40	0.40	0.38	0.37	0.35	0.35	0.35	0.35
9-13 years	27.8	29.0	29.8	30.9	33.1	35.3	36.4	37.2	38.3	0.40	0.36	0.34	0.32	0.29	0.26	0.25	0.25	0.26
14-18 years	26.2	27.8	28.8	30.3	33.0	35.6	37.0	38.0	39.5	0.47	0.44	0.42	0.39	0.37	0.38	0.40	0.41	0.42
19-30 years	28.3	29.6	30.4	31.7	33.9	36.2	37.4	38.2	39.3	0.32	0.31	0.30	0.30	0.28	0.28	0.28	0.28	0.28
31-50 years	26.2	28.1	29.3	31.2	› 34.7	›› 38.1	›› 39.9	›› 41.1	›› 42.9	0.32	0.31	0.30	0.30	0.29	0.30	0.31	0.31	0.33
51-70 years	23.9	26.1	27.6	29.8	33.9	37.9	40.0	41.4	43.6	0.36	0.34	0.33	0.31	0.27	0.25	0.26	0.28	0.35
71 + years	24.2	26.2	27.6	29.6	33.3	37.1	39.1	40.5	42.5	0.39	0.36	0.35	0.33	0.29	0.26	0.25	0.25	0.26

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-62—Distribution of usual intake of total fat as a percent of usual energy intake — Continued

Female

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	25.5	27.2	28.3	29.9	33.0	36.1	37.7	38.7	40.3	0.32	0.30	0.29	0.29	0.29	0.31	0.30	0.30	0.31
4-8 years	27.0	28.3	29.2	30.5	33.0	35.6	37.1	38.1	39.6	0.17	0.16	0.15	0.15	0.16	0.19	0.22	0.23	0.26
9-13 years	26.8	28.4	29.5	31.0	33.7	36.4	37.8	38.7	40.2	0.28	0.26	0.25	0.23	0.22	0.20	0.20	0.19	0.19
14-18 years	26.8	28.4	29.5	31.1	34.0	37.1	38.7	39.9	41.6	0.30	0.30	0.30	0.31	0.33	0.35	0.37	0.39	0.44
19-30 years	24.5	26.5	27.8	29.7	33.3	36.7	38.5	39.7	41.5	0.30	0.28	0.26	0.25	0.23	0.22	0.22	0.22	0.22
31-50 years	25.9	27.8	29.0	30.9	34.3	37.7	39.4	40.6	42.3	0.22	0.21	0.20	0.19	0.19	0.20	0.21	0.22	0.24
51-70 years	22.6	24.7	26.1	28.3	32.3	36.3	38.4	39.8	41.9	0.24	0.22	0.21	0.20	0.20	0.21	0.22	0.24	0.26
71 + years	22.1	24.2	25.6	27.7	31.6	35.4	37.5	38.9	41.0	0.23	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.23
Persons currently receiving food stamps																		
2-3 years	26.2	28.0	29.2	30.9	34.4	37.8	39.6	40.8	42.5	0.57	0.54	0.53	0.53	0.54	0.52	0.53	0.54	0.58
4-8 years	28.5	29.7	30.4	31.6	33.7	35.8	37.0	37.8	39.1	0.41	0.40	0.40	0.39	0.39	0.41	0.42	0.44	0.47
9-13 years	24.1	26.1	27.5	29.5	33.0	36.4	38.2	39.4	41.3	0.54	0.50	0.47	0.44	0.40	0.42	0.44	0.44	0.46
14-18 years	26.4	28.1	29.3	31.0	34.0	36.9	38.4	39.4	40.9	0.80	0.72	0.68	0.62	0.56	0.52	0.50	0.50	0.50
19-30 years	25.3	27.2	28.6	30.5	33.8	37.1	38.7	39.9	41.5	0.52	0.49	0.47	0.42	0.37	0.35	0.36	0.37	0.38
31-50 years	27.2	28.4	29.3	30.6	33.0	35.4	36.7	37.5	38.8	0.34	0.33	0.32	0.33	0.34	0.35	0.36	0.36	0.38
51-70 years	24.0	25.9	27.2	29.1	32.6	36.2	38.1	39.4	41.3	0.69	0.67	0.64	0.61	0.55	0.55	0.57	0.59	0.62
71 + years	19.3	21.8	23.4	25.8	30.4	35.1	37.6	39.4	41.9	1.03	0.96	0.91	0.84	0.78	0.82	0.87	0.91	0.98
Income-eligible, food stamp nonparticipants																		
2-3 years	›› 28.8	30.0	30.8	32.0	34.4	36.7	38.0	38.8	› 40.0	0.54	0.55	0.56	0.58	0.60	0.60	0.60	0.61	0.64
4-8 years	27.7	28.8	29.5	30.6	32.9	35.5	36.8	37.7	39.2	0.30	0.31	0.33	0.36	0.42	0.49	0.54	0.58	0.64
9-13 years	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
14-18 years	26.3	27.7	28.7	30.2	33.1	36.1	37.8	38.9	40.5	0.57	0.57	0.60	0.65	0.70	0.70	0.71	0.74	0.82
19-30 years	23.3	25.3	› 26.6	› 28.6	32.2	35.9	37.9	39.2	41.2	0.61	0.55	0.52	0.49	0.47	0.46	0.47	0.48	0.49
31-50 years	26.5	28.4	29.7	31.5	› 34.7	››› 37.8	››› 39.3	››› 40.3	››› 41.8	0.49	0.49	0.48	0.46	0.42	0.42	0.44	0.46	0.49
51-70 years	››› 20.1	›› 22.5	›› 24.1	› 26.5	31.0	35.4	37.8	39.3	41.7	0.73	0.69	0.65	0.59	0.56	0.63	0.68	0.72	0.78
71 + years	21.5	23.6	25.0	27.1	31.3	35.5	37.9	39.5	41.9	0.49	0.47	0.45	0.42	0.39	0.42	0.46	0.48	0.54
Higher-income, food stamp nonparticipants																		
2-3 years	24.6	26.3	27.4	29.1	›› 32.1	››› 35.2	››› 36.8	››› 37.9	››› 39.5	0.47	0.44	0.42	0.40	0.38	0.37	0.38	0.39	0.41
4-8 years	››› 26.3	››› 27.7	››› 28.6	›› 30.0	32.6	35.3	36.9	37.9	39.6	0.27	0.24	0.23	0.23	0.26	0.31	0.35	0.38	0.42
9-13 years	››› 28.0	››› 29.4	››› 30.3	››› 31.6	34.1	36.4	37.7	38.6	39.9	0.35	0.31	0.29	0.26	0.24	0.23	0.24	0.24	0.24
14-18 years	26.0	27.9	29.1	30.9	34.3	37.7	39.6	40.9	43.0	0.42	0.39	0.38	0.37	0.38	0.43	0.48	0.52	0.60
19-30 years	25.0	26.9	28.1	30.0	33.3	36.6	38.3	39.5	41.2	0.39	0.37	0.35	0.34	0.34	0.33	0.32	0.32	0.32
31-50 years	›› 25.6	27.6	28.9	30.8	›› 34.4	››› 37.9	››› 39.8	››› 41.0	››› 42.9	0.29	0.27	0.27	0.26	0.26	0.27	0.29	0.30	0.32
51-70 years	23.2	25.2	26.6	28.6	32.5	36.3	38.3	39.7	41.8	0.29	0.27	0.26	0.25	0.25	0.26	0.28	0.29	0.33
71 + years	› 22.6	› 24.7	› 26.1	28.2	32.0	35.8	37.8	39.2	41.2	0.32	0.30	0.29	0.29	0.28	0.28	0.30	0.31	0.35

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-63—Mean percent of usual energy intake from saturated fat

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
2-3 years	2,174	12.5	0.09	739	12.8	0.12	–	–	–	867	›› 12.3	0.13
4-8 years	3,448	12.5	0.08	1,068	12.6	0.10	712	12.8	0.15	1,470	›› 12.2	0.13
9-13 years	2,457	12.2	0.08	663	12.1	0.18	538	12.4	0.16	1,113	12.1	0.08
14-18 years	1,936	11.8	0.09	484	11.8	0.18	431	11.8	0.20	871	11.7	0.12
19-30 years	4,103	11.5	0.07	756	11.4	0.12	962	11.2	0.15	2,078	11.6	0.09
31-50 years	5,588	11.4	0.07	831	11.1	0.18	935	11.4	0.22	3,469	11.4	0.08
51-70 years	4,019	11.0	0.05	453	11.0	0.20	687	10.7	0.19	2,533	11.0	0.06
71 + years	2,623	10.7	0.07	239	10.7	0.23	571	10.7	0.11	1,525	10.7	0.09
Total, age adjusted	26,348	11.5	0.03	5,233	11.4	0.08	5,282	11.4	0.08	13,926	11.5	0.04
Males												
2-3 years	1,076	12.4	0.10	389	12.5	0.19	217	12.5	0.24	417	12.3	0.16
4-8 years	1,707	12.6	0.13	500	12.5	0.16	346	12.9	0.22	756	12.4	0.20
9-13 years	1,219	12.3	0.12	338	12.4	0.23	256	13.1	0.30	555	12.1	0.14
14-18 years	908	11.9	0.14	216	11.5	0.32	203	12.2	0.25	403	11.7	0.18
19-30 years	1,902	11.6	0.10	241	11.4	0.26	483	11.5	0.24	1,012	11.7	0.11
31-50 years	2,533	11.4	0.09	–	–	–	437	11.1	0.30	1,656	11.4	0.10
51-70 years	1,942	11.2	0.10	183	11.4	0.35	324	11.1	0.37	1,284	11.2	0.11
71 + years	1,255	11.1	0.10	106	11.6	0.52	232	10.9	0.22	798	11.0	0.11
Total, age adjusted	12,542	11.6	0.04	2,254	11.5	0.13	2,498	11.5	0.13	6,881	11.6	0.05
Females												
2-3 years	1,098	12.7	0.12	350	13.3	0.13	229	13.5	0.32	450	››› 12.3	0.17
4-8 years	1,741	12.4	0.08	568	12.8	0.16	366	12.7	0.17	714	››› 12.0	0.13
9-13 years	1,238	12.0	0.10	325	11.8	0.23	282	11.7	0.21	558	12.1	0.14
14-18 years	1,028	11.8	0.14	268	12.0	0.37	228	11.5	0.26	468	11.8	0.18
19-30 years	2,201	11.3	0.09	515	11.3	0.18	479	11.0	0.16	1,066	11.4	0.12
31-50 years	3,055	11.5	0.07	550	11.1	0.17	498	11.7	0.22	1,813	11.5	0.09
51-70 years	2,077	10.7	0.06	270	10.8	0.24	363	10.3	0.19	1,249	10.8	0.08
71 + years	1,368	10.4	0.09	133	10.3	0.27	339	10.6	0.16	727	10.4	0.12
Total, age adjusted	13,806	11.4	0.03	2,979	11.3	0.09	2,784	11.3	0.09	7,045	11.4	0.04

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-64—Percent of persons meeting Dietary Guidelines recommendation for usual intake of saturated fat[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
2-3 years	2,174	12.2	0.87	739	6.5	1.03	–	–	–	867	›››16.4	1.38
4-8 years	3,448	7.1	0.83	1,068	3.2	0.56	712	3.0	0.71	1,470	›››10.8	1.48
9-13 years	2,457	7.3	0.76	663	8.6	1.92	538	› 3.3	0.92	1,113	7.8	1.02
14-18 years	1,936	17.3	1.29	484	10.8	2.10	431	11.2	2.77	871	›››21.0	1.71
19-30 years	4,103	23.5	1.22	756	24.4	1.90	962	29.2	2.28	2,078	21.4	1.54
31-50 years	5,588	24.6	1.07	831	24.0	3.51	935	29.0	3.19	3,469	25.4	1.24
51-70 years	4,019	37.1	0.90	453	30.2	3.80	687	›› 42.7	2.57	2,533	36.1	1.00
71 + years	2,623	42.2	1.12	239	42.4	3.30	571	43.7	1.97	1,525	41.7	1.36
Total, age adjusted	26,348	24.8	0.46	5,233	22.6	1.39	5,282	› 27.1	1.09	13,926	25.2	0.55
Males												
2-3 years	1,076	12.1	1.02	389	8.7	1.85	217	5.5	2.31	417	› 15.0	1.63
4-8 years	1,707	5.0	1.20	500	2.7	0.84	346	› 0.8	0.46	756	› 8.1	2.07
9-13 years	1,219	3.8	0.81	338	3.7	1.44	256	1.4	1.01	555	6.0	1.30
14-18 years	908	16.3	1.97	216	22.3	5.48	203	9.9	3.45	403	18.9	2.77
19-30 years	1,902	16.5	1.60	241	23.4	4.51	483	22.9	3.55	1,012	14.0	1.75
31-50 years	2,533	25.3	1.66	–	–	–	437	32.3	4.94	1,656	24.6	1.80
51-70 years	1,942	33.6	1.53	183	26.9	5.27	324	38.2	4.13	1,284	32.5	1.60
71 + years	1,255	36.6	1.52	106	32.8	6.51	232	37.0	3.03	798	38.0	1.74
Total, age adjusted	12,542	22.2	0.69	2,254	22.8	2.20	2,498	25.2	1.86	6,881	22.2	0.77
Females												
2-3 years	1,098	12.1	1.20	350	3.7	0.64	229	3.8	1.27	450	›››17.9	2.13
4-8 years	1,741	9.0	0.78	568	4.0	0.79	366	3.2	0.68	714	›››13.4	1.55
9-13 years	1,238	11.1	1.20	325	14.3	3.14	282	14.6	3.08	558	9.1	1.40
14-18 years	1,028	18.6	1.75	268	18.2	3.81	228	12.4	3.94	468	22.3	2.29
19-30 years	2,201	29.1	1.37	515	25.2	2.61	479	› 35.1	2.90	1,066	28.0	1.91
31-50 years	3,055	25.6	1.02	550	20.6	3.91	498	25.7	2.99	1,813	26.1	1.33
51-70 years	2,077	40.2	0.94	270	32.0	5.06	363	› 46.4	3.01	1,249	39.2	1.01
71 + years	1,368	46.1	1.45	133	49.6	3.77	339	45.8	2.23	727	45.0	1.88
Total, age adjusted	13,806	27.4	0.48	2,979	23.6	1.67	2,784	› 28.7	1.26	7,045	› 27.8	0.63

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Recommended intake of saturated fat is less than 10 percent of total calories.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-65—Distribution of usual intake of saturated fat as a percent of usual energy intake

Both sexes

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	9.0	9.8	10.3	11.0	12.5	14.0	14.8	15.3	16.2	0.10	0.09	0.09	0.09	0.08	0.09	0.09	0.10	0.10
4-8 years	9.7	10.3	10.7	11.3	12.4	13.6	14.2	14.7	15.4	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08
9-13 years	9.7	10.2	10.6	11.1	12.1	13.2	13.7	14.1	14.6	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
14-18 years	8.8	9.4	9.8	10.5	11.7	13.0	13.8	14.3	15.2	0.10	0.09	0.09	0.09	0.08	0.09	0.11	0.13	0.17
19-30 years	8.3	8.9	9.4	10.1	11.4	12.8	13.5	14.0	14.8	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.09
31-50 years	8.2	8.9	9.3	10.0	11.4	12.7	13.5	14.0	14.8	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08
51-70 years	6.9	7.7	8.3	9.2	10.8	12.6	13.6	14.3	15.4	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.07	0.11
71 + years	6.5	7.3	7.9	8.8	10.5	12.3	13.4	14.2	15.4	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.10	0.12
Persons currently receiving food stamps																		
2-3 years	9.8	10.4	10.9	11.6	12.8	14.1	14.8	15.3	16.0	0.16	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13
4-8 years	10.3	10.8	11.1	11.6	12.6	13.6	14.2	14.6	15.2	0.10	0.10	0.10	0.10	0.11	0.11	0.12	0.13	0.14
9-13 years	9.6	10.1	10.5	11.0	12.1	13.1	13.7	14.1	14.7	0.18	0.17	0.17	0.17	0.18	0.21	0.23	0.25	0.27
14-18 years	9.4	9.9	10.3	10.8	11.8	12.8	13.4	13.8	14.4	0.18	0.16	0.16	0.16	0.18	0.22	0.25	0.27	0.30
19-30 years	8.2	8.9	9.4	10.0	11.3	12.6	13.4	13.9	14.6	0.13	0.12	0.12	0.12	0.12	0.14	0.15	0.16	0.17
31-50 years	8.6	9.1	9.5	10.1	11.1	12.2	12.8	13.2	13.9	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.20	0.22
51-70 years	8.0	8.6	9.1	9.7	11.0	12.2	12.9	13.4	14.2	0.22	0.21	0.20	0.20	0.20	0.22	0.23	0.23	0.24
71 + years	6.2	7.1	7.7	8.7	10.5	12.5	13.6	14.4	15.6	0.30	0.29	0.27	0.25	0.23	0.24	0.26	0.27	0.29
Income-eligible, food stamp nonparticipants																		
2-3 years	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4-8 years	10.3	10.8	11.2	11.7	12.7	13.8	14.4	14.9	15.6	0.15	0.14	0.14	0.14	0.15	0.17	0.18	0.18	0.18
9-13 years	10.2	10.7	11.1	11.5	12.4	13.3	13.8	14.1	14.6	0.15	0.15	0.15	0.15	0.16	0.17	0.18	0.19	0.20
14-18 years	9.4	9.9	10.3	10.8	11.8	12.8	13.4	13.8	14.3	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21
19-30 years	7.9	8.6	9.0	9.7	11.1	12.6	13.4	14.0	14.9	0.12	0.12	0.13	0.13	0.14	0.17	0.20	0.22	0.25
31-50 years	›››7.5	› 8.3	8.9	9.7	11.3	13.0	›› 14.0	››› 14.6	››› 15.5	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.26	0.28
51-70 years	›››6.2	›››7.1	›››7.7	›››8.6	10.5	12.5	13.6	› 14.4	›› 15.6	0.18	0.18	0.18	0.18	0.19	0.20	0.23	0.25	0.31
71 + years	6.3	7.1	7.7	8.6	10.4	12.5	13.6	14.5	16.0	0.16	0.16	0.15	0.15	0.13	0.12	0.14	0.18	0.29
Higher-income, food stamp nonparticipants																		
2-3 years	›››8.5	›››9.3	›››9.9	›››10.7	12.3	13.9	14.7	15.3	16.2	0.15	0.14	0.13	0.13	0.14	0.15	0.16	0.16	0.17
4-8 years	›››9.3	›››9.9	›››10.3	›› 11.0	12.2	13.4	14.1	14.5	15.3	0.14	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.16
9-13 years	9.7	10.2	10.5	11.1	12.1	13.1	13.6	14.0	14.6	0.11	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.09
14-18 years	›››8.4	›››9.1	›››9.5	10.3	11.6	13.1	13.9	14.5	› 15.5	0.13	0.12	0.12	0.12	0.11	0.12	0.15	0.17	0.25
19-30 years	8.4	9.1	9.5	10.2	11.5	12.8	13.6	14.1	14.9	0.10	0.10	0.10	0.10	0.09	0.10	0.10	0.10	0.11
31-50 years	8.1	8.8	9.3	10.0	11.4	› 12.8	›› 13.6	››› 14.2	››› 15.1	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09
51-70 years	›››7.0	›› 7.8	›› 8.4	9.2	10.9	12.6	› 13.6	›› 14.3	››› 15.4	0.07	0.07	0.07	0.07	0.06	0.06	0.08	0.09	0.13
71 + years	6.6	7.4	8.0	8.8	10.5	12.3	13.4	14.1	15.3	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.12	0.15

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-65—Distribution of usual intake of saturated fat as a percent of usual energy intake — Continued

Male

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	9.0	9.8	10.3	11.0	12.4	13.8	14.6	15.1	15.9	0.12	0.11	0.10	0.10	0.10	0.12	0.12	0.13	0.14
4-8 years	10.0	10.6	10.9	11.5	12.5	13.6	14.2	14.6	15.2	0.16	0.15	0.15	0.14	0.13	0.12	0.12	0.12	0.13
9-13 years	10.2	10.6	10.9	11.4	12.3	13.2	13.6	14.0	14.5	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
14-18 years	8.8	9.5	9.9	10.6	11.8	13.1	13.8	14.3	15.0	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16
19-30 years	8.9	9.5	9.9	10.5	11.6	12.8	13.4	13.8	14.5	0.11	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.12
31-50 years	8.1	8.8	9.3	10.0	11.3	12.7	13.5	14.0	14.8	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.10	0.10
51-70 years	7.1	7.9	8.5	9.4	11.1	12.9	13.9	14.6	15.6	0.12	0.11	0.11	0.11	0.10	0.10	0.11	0.12	0.14
71 + years	6.9	7.7	8.3	9.2	10.9	12.7	13.8	14.6	15.9	0.13	0.12	0.12	0.11	0.09	0.10	0.12	0.14	0.17
Persons currently receiving food stamps																		
2-3 years	9.5	10.1	10.6	11.3	12.5	13.8	14.4	14.9	15.5	0.23	0.21	0.21	0.20	0.19	0.19	0.19	0.19	0.20
4-8 years	10.4	10.8	11.1	11.6	12.5	13.3	13.8	14.2	14.7	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.19	0.20
9-13 years	10.2	10.7	11.0	11.5	12.4	13.4	13.8	14.2	14.7	0.20	0.20	0.21	0.21	0.23	0.26	0.27	0.29	0.31
14-18 years	8.2	8.9	9.4	10.2	11.5	12.9	13.6	14.1	14.9	0.50	0.44	0.41	0.38	0.33	0.29	0.27	0.26	0.28
19-30 years	8.3	9.0	9.4	10.1	11.4	12.7	13.5	14.0	14.7	0.27	0.27	0.28	0.28	0.28	0.27	0.27	0.26	0.26
31-50 years	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
51-70 years	7.6	8.5	9.0	9.9	11.4	12.9	13.7	14.2	15.0	0.35	0.36	0.36	0.36	0.36	0.37	0.38	0.39	0.40
71 + years	6.3	7.3	8.0	9.2	11.6	13.9	15.1	15.8	16.9	0.69	0.71	0.69	0.64	0.53	0.50	0.51	0.52	0.52
Income-eligible, food stamp nonparticipants																		
2-3 years	9.9	10.5	10.9	11.4	12.4	13.5	14.0	14.4	15.0	0.28	0.27	0.26	0.25	0.24	0.25	0.26	0.28	0.30
4-8 years	10.9	11.3	11.6	12.0	12.9	13.8	14.3	14.7	15.2	0.22	0.22	0.22	0.22	0.23	0.25	0.25	0.26	0.28
9-13 years	10.8	11.3	11.7	12.2	13.1	14.0	14.4	14.8	15.3	0.31	0.30	0.30	0.29	0.29	0.30	0.32	0.33	0.34
14-18 years	9.4	10.0	10.4	11.0	12.2	13.3	13.9	14.4	15.0	0.32	0.30	0.29	0.28	0.26	0.25	0.26	0.26	0.27
19-30 years	8.4	9.0	9.5	10.1	11.4	12.7	13.5	14.1	14.9	0.20	0.21	0.21	0.22	0.24	0.27	0.29	0.32	0.36
31-50 years	7.4	8.2	8.7	9.5	11.0	12.6	13.4	14.0	14.8	0.29	0.30	0.30	0.31	0.32	0.32	0.32	0.32	0.33
51-70 years	› 6.1	› 7.0	7.7	8.8	11.0	13.2	14.4	15.3	16.6	0.36	0.37	0.37	0.37	0.36	0.40	0.47	0.52	0.64
71 + years	6.5	7.5	8.2	9.1	10.9	12.7	13.7	14.5	15.6	0.29	0.26	0.24	0.22	0.20	0.23	0.27	0.31	0.39
Higher-income, food stamp nonparticipants																		
2-3 years	8.7	9.5	10.0	10.8	12.3	13.8	14.7	15.2	16.1	0.18	0.16	0.15	0.15	0.16	0.19	0.21	0.22	0.23
4-8 years	› 9.6	10.2	10.6	11.2	12.4	13.5	14.2	14.6	15.3	0.22	0.21	0.20	0.20	0.19	0.20	0.20	0.21	0.22
9-13 years	9.9	10.4	10.7	11.1	12.0	12.9	13.4	13.8	14.3	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.16	0.17
14-18 years	8.5	9.2	9.7	10.4	11.7	13.0	13.8	14.3	15.1	0.20	0.19	0.19	0.19	0.18	0.18	0.19	0.20	0.21
19-30 years	9.1	9.7	10.1	10.6	11.7	12.8	13.4	13.8	14.5	0.13	0.12	0.12	0.12	0.11	0.11	0.12	0.12	0.12
31-50 years	8.2	8.9	9.3	10.0	11.3	12.7	13.5	14.1	14.9	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12
51-70 years	7.2	8.0	8.6	9.5	11.1	12.9	13.8	14.5	15.5	0.13	0.12	0.12	0.11	0.11	0.11	0.12	0.13	0.15
71 + years	6.9	7.7	8.2	9.1	10.8	12.7	13.7	14.5	15.8	0.15	0.14	0.14	0.13	0.11	0.11	0.13	0.15	0.19

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-65—Distribution of usual intake of saturated fat as a percent of usual energy intake — Continued

Female

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	9.0	9.8	10.3	11.1	12.6	14.2	15.0	15.6	16.5	0.15	0.14	0.13	0.13	0.12	0.13	0.13	0.13	0.14
4-8 years	9.5	10.1	10.5	11.1	12.3	13.5	14.2	14.7	15.4	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10
9-13 years	9.3	9.9	10.3	10.9	12.0	13.1	13.7	14.1	14.7	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.13
14-18 years	8.7	9.3	9.7	10.4	11.6	13.0	13.8	14.4	15.4	0.12	0.12	0.12	0.12	0.13	0.16	0.19	0.22	0.28
19-30 years	7.7	8.5	9.0	9.7	11.2	12.7	13.6	14.2	15.1	0.10	0.09	0.09	0.09	0.08	0.10	0.12	0.13	0.14
31-50 years	8.0	8.7	9.2	10.0	11.4	12.9	13.7	14.3	15.1	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09
51-70 years	6.8	7.6	8.1	9.0	10.6	12.4	13.4	14.1	15.2	0.07	0.06	0.06	0.05	0.06	0.07	0.09	0.11	0.16
71 + years	6.3	7.1	7.7	8.6	10.2	12.1	13.1	13.9	15.1	0.08	0.08	0.08	0.09	0.09	0.10	0.11	0.13	0.17
Persons currently receiving food stamps																		
2-3 years	10.2	10.9	11.3	12.0	13.2	14.5	15.2	15.7	16.4	0.14	0.14	0.13	0.13	0.12	0.15	0.17	0.18	0.20
4-8 years	10.2	10.7	11.1	11.6	12.7	13.9	14.5	15.0	15.6	0.13	0.14	0.15	0.16	0.17	0.17	0.18	0.18	0.19
9-13 years	9.1	9.7	10.1	10.6	11.7	12.9	13.5	13.9	14.6	0.26	0.24	0.22	0.21	0.22	0.25	0.28	0.30	0.33
14-18 years	8.7	9.3	9.8	10.4	11.8	13.3	14.3	14.9	16.0	0.27	0.26	0.27	0.29	0.36	0.44	0.51	0.56	0.66
19-30 years	8.1	8.8	9.3	10.0	11.3	12.6	13.4	13.8	14.6	0.18	0.17	0.16	0.16	0.18	0.21	0.22	0.23	0.24
31-50 years	8.9	9.4	9.7	10.2	11.1	12.0	12.5	12.9	13.4	0.19	0.18	0.18	0.18	0.17	0.18	0.18	0.19	0.21
51-70 years	8.1	8.7	9.1	9.7	10.8	11.9	12.6	13.0	13.7	0.23	0.23	0.23	0.23	0.24	0.26	0.28	0.29	0.32
71 + years	5.6	6.5	7.1	8.1	10.0	12.2	13.4	14.3	15.7	0.36	0.34	0.32	0.29	0.28	0.32	0.32	0.32	0.33
Income-eligible, food stamp nonparticipants																		
2-3 years	10.2	10.9	11.4	12.1	13.4	14.8	15.5	16.1	16.9	0.29	0.28	0.28	0.29	0.32	0.36	0.38	0.40	0.42
4-8 years	10.3	10.8	11.1	11.6	12.6	13.7	14.3	14.7	15.4	0.12	0.12	0.13	0.14	0.16	0.20	0.23	0.25	0.28
9-13 years	9.1	9.6	10.0	10.6	11.7	12.8	13.4	13.8	14.4	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.22
14-18 years	9.4	9.8	10.2	10.6	11.5	12.4	12.9	13.2	› 13.8	0.24	0.24	0.25	0.25	0.26	0.28	0.28	0.28	0.29
19-30 years	7.5	8.2	8.7	9.4	10.8	12.4	13.3	13.9	14.9	0.20	0.18	0.18	0.17	0.16	0.16	0.18	0.19	0.24
31-50 years	›››7.7	› 8.5	9.1	9.9	11.6	›››13.3	›››14.2	›››14.9	›››15.8	0.22	0.22	0.22	0.22	0.24	0.25	0.26	0.28	0.31
51-70 years	›››6.4	›››7.2	›››7.7	›› 8.6	10.2	11.9	12.9	13.6	14.6	0.20	0.19	0.18	0.18	0.19	0.22	0.24	0.27	0.31
71 + years	6.2	7.0	7.6	8.5	10.3	12.3	13.6	14.5	16.1	0.20	0.19	0.19	0.17	0.15	0.16	0.22	0.30	0.50
Higher-income, food stamp nonparticipants																		
2-3 years	›››8.3	›››9.2	›››9.7	›››10.6	›››12.3	13.9	14.9	15.5	16.4	0.22	0.21	0.20	0.19	0.18	0.18	0.19	0.20	0.22
4-8 years	›››9.1	›››9.7	›››10.1	›››10.7	›› 11.9	› 13.2	› 13.8	› 14.3	15.1	0.12	0.12	0.12	0.12	0.13	0.15	0.16	0.17	0.18
9-13 years	9.5	10.1	10.5	11.1	12.1	13.2	13.8	14.2	14.8	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16
14-18 years	8.2	9.0	9.5	10.2	11.6	13.1	14.1	14.8	15.8	0.17	0.16	0.16	0.16	0.17	0.19	0.23	0.28	0.39
19-30 years	7.8	8.5	9.0	9.8	11.3	12.8	13.7	14.3	15.2	0.13	0.12	0.12	0.12	0.12	0.14	0.15	0.16	0.18
31-50 years	›››7.9	›› 8.7	9.2	9.9	11.4	›››12.9	›››13.8	›››14.4	›››15.2	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.12
51-70 years	›››6.8	›››7.6	›› 8.2	› 9.0	10.7	12.4	13.4	›› 14.1	›››15.2	0.09	0.08	0.07	0.07	0.06	0.08	0.11	0.14	0.21
71 + years	6.4	7.2	7.8	8.6	10.3	12.1	13.1	13.8	14.9	0.11	0.11	0.11	0.12	0.12	0.13	0.15	0.16	0.20

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).* 'Total Persons' includes persons with missing FSP participation or income.

Table D-66—Mean usual intake of cholesterol in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
2-3 years	2,174	185	2.6	739	227	5.1	446	› 210	6.2	867	››› 162	4.0
4-8 years	3,448	209	3.6	1,068	229	9.4	712	225	6.5	1,470	›› 198	4.7
9-13 years	2,457	249	4.8	663	263	8.2	538	249	8.7	1,113	246	6.1
14-18 years	1,938	271	6.1	485	283	9.3	431	267	10.7	871	269	8.5
19-30 years	4,103	316	5.7	756	330	13.8	962	323	10.4	2,078	312	7.6
31-50 years	5,588	300	4.4	831	320	11.4	935	› 356	12.9	3,469	› 292	4.9
51-70 years	4,019	256	3.7	453	282	11.7	687	›› 235	9.0	2,533	› 256	4.6
71 + years	2,623	216	3.3	239	239	10.8	571	››› 197	4.8	1,525	221	4.6
Total, age adjusted	26,350	271	1.9	5,234	291	5.0	5,282	286	4.9	13,926	››› 267	2.4
Males												
2-3 years	1,076	192	4.1	389	241	7.5	217	›› 210	8.4	417	››› 166	6.4
4-8 years	1,707	218	4.6	500	238	11.0	346	231	9.2	756	› 209	6.4
9-13 years	1,219	274	7.9	338	289	12.9	256	301	14.6	555	262	10.0
14-18 years	909	332	9.5	217	314	16.2	203	338	17.8	403	342	13.6
19-30 years	1,902	392	8.6	241	398	23.2	483	409	15.8	1,012	392	11.5
31-50 years	2,533	365	6.8	281	448	21.7	437	440	20.8	1,656	››› 353	7.5
51-70 years	1,942	315	5.3	183	359	24.3	324	››› 271	9.4	1,284	315	6.9
71 + years	1,255	273	6.3	106	333	20.8	232	››› 259	8.5	798	›› 275	7.8
Total, age adjusted	12,543	327	3.0	2,255	370	9.3	2,498	348	7.5	6,881	››› 322	3.6
Females												
2-3 years	1,098	178	3.2	350	209	9.0	229	212	8.8	450	››› 159	4.2
4-8 years	1,741	200	3.9	568	223	11.0	366	218	8.6	714	››› 183	4.6
9-13 years	1,238	224	4.3	325	235	8.7	–	–	–	558	225	5.9
14-18 years	1,029	211	5.2	268	259	10.8	228	›› 212	11.4	468	››› 196	6.5
19-30 years	2,201	243	5.2	515	302	18.0	479	›› 236	9.5	1,066	››› 230	6.9
31-50 years	3,055	240	3.7	550	242	8.6	498	›› 286	12.7	1,813	231	3.5
51-70 years	2,077	203	3.4	270	245	17.0	363	209	15.2	1,249	›› 199	3.1
71 + years	1,368	178	3.1	133	193	13.2	339	174	5.2	727	176	4.2
Total, age adjusted	13,807	221	1.7	2,979	247	5.4	2,784	234	5.3	7,045	››› 212	1.9

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-67—Percent of persons meeting Dietary Guidelines recommendation for usual intake of cholesterol[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
2-3 years	2,174	93.0	0.6	739	81.2	1.7	446	›››90.7	1.8	867	›››96.8	0.6
4-8 years	3,448	88.1	1.1	1,068	84.3	3.7	712	86.3	2.3	1,470	90.8	1.2
9-13 years	2,457	76.7	1.8	663	72.0	3.9	538	78.2	3.8	1,113	77.1	2.1
14-18 years	1,938	67.1	2.3	485	62.5	4.4	431	71.1	5.2	871	68.0	3.0
19-30 years	4,103	53.3	1.6	756	51.0	2.9	962	50.8	2.9	2,078	53.4	2.3
31-50 years	5,588	57.7	1.3	831	52.6	3.1	935	› 42.8	3.0	3,469	› 60.2	1.5
51-70 years	4,019	71.0	1.1	453	61.6	3.5	687	›› 75.4	2.6	2,533	› 71.3	1.4
71 + years	2,623	83.0	0.9	239	73.7	3.1	571	›››86.8	1.2	1,525	›› 82.5	1.4
Total, age adjusted	26,350	66.9	0.6	5,234	61.1	1.4	5,282	63.2	1.3	13,926	›››68.1	0.7
Males												
2-3 years	1,076	91.4	1.0	389	81.3	3.0	217	95.4	2.0	417	›››95.0	1.2
4-8 years	1,707	86.2	1.3	500	83.4	4.4	346	85.6	3.5	756	86.7	1.7
9-13 years	1,219	69.1	3.5	338	61.9	9.8	256	55.1	6.5	555	72.1	3.8
14-18 years	909	42.1	3.6	217	50.1	6.0	203	26.9	10.7	403	42.2	4.3
19-30 years	1,902	30.0	1.8	241	22.2	5.7	483	30.4	3.5	1,012	24.2	2.5
31-50 years	2,533	37.0	1.8	281	26.1	4.1	437	22.4	3.3	1,656	›› 39.8	2.2
51-70 years	1,942	51.6	1.6	183	36.3	7.2	324	›››64.8	2.9	1,284	› 51.4	2.2
71 + years	1,255	65.3	2.1	106	38.7	8.4	232	›› 67.4	3.0	798	›› 64.8	2.6
Total, age adjusted	12,543	48.9	0.8	2,255	38.6	2.4	2,498	› 44.8	1.6	6,881	›››49.1	1.0
Females												
2-3 years	1,098	94.5	0.6	350	82.2	2.6	229	86.8	2.6	450	›››98.3	0.5
4-8 years	1,741	90.7	1.4	568	84.5	4.3	366	87.0	2.7	714	› 95.6	1.0
9-13 years	1,238	83.8	1.6	325	80.0	3.1	–	–	–	558	83.6	2.0
14-18 years	1,029	91.6	1.4	268	71.5	4.3	228	94.3	2.8	468	›››95.6	1.3
19-30 years	2,201	77.5	2.0	515	57.7	4.5	479	›››80.9	3.6	1,066	›››83.0	2.6
31-50 years	3,055	78.2	1.4	550	75.5	2.8	498	›› 60.5	4.2	1,813	› 82.7	1.3
51-70 years	2,077	88.3	1.0	270	73.0	5.1	363	86.3	4.7	1,249	›› 89.6	0.8
71 + years	1,368	94.2	0.6	133	84.4	3.4	339	›› 95.2	0.9	727	›› 95.3	0.7
Total, age adjusted	13,807	84.1	0.6	2,979	73.8	1.6	2,784	› 79.4	1.7	7,045	›››87.5	0.6

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 National Research Council's Diet and Health recommendation for intake of cholesterol is less than or equal to 300 milligrams.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-68—Distribution of usual intake of cholesterol in milligrams

Both sexes

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	90	104	115	133	174	225	257	281	318	1.67	1.79	1.88	2.04	2.50	3.23	3.73	4.13	4.80
4-8 years	108	124	136	155	197	250	284	311	355	1.72	1.92	2.10	2.38	3.10	4.55	5.73	6.73	8.36
9-13 years	131	150	164	186	234	294	334	365	417	1.99	2.21	2.41	2.78	3.80	5.85	8.10	10.40	15.20
14-18 years	134	156	172	198	255	326	372	406	462	2.85	3.15	3.43	3.98	5.64	7.93	9.38	10.40	12.00
19-30 years	137	163	182	215	289	388	452	502	584	2.04	2.45	2.79	3.39	5.04	7.61	9.44	10.90	13.20
31-50 years	131	155	174	205	276	369	430	477	554	1.73	1.95	2.18	2.65	3.95	5.85	7.07	7.96	9.49
51-70 years	106	127	144	171	234	316	370	411	479	1.67	1.90	2.11	2.43	3.01	4.65	6.24	7.60	9.88
71 + years	93	111	125	148	200	267	311	343	396	1.94	2.13	2.28	2.52	3.16	4.01	4.64	5.22	6.39
Persons currently receiving food stamps																		
2-3 years	110	128	141	164	215	278	316	342	384	2.95	3.26	3.59	4.21	5.36	6.23	6.79	7.28	8.22
4-8 years	131	146	158	176	217	269	303	328	370	3.46	4.12	4.66	5.64	8.38	12.60	15.30	17.10	20.00
9-13 years	155	174	188	209	255	308	340	363	400	4.48	4.99	5.37	6.03	7.71	10.10	11.60	12.70	14.50
14-18 years	165	186	200	224	274	332	367	392	432	6.04	6.76	7.31	8.12	9.57	11.00	11.90	12.50	13.50
19-30 years	126	153	174	209	296	415	492	550	648	4.77	5.31	5.81	6.87	10.80	19.90	26.60	31.10	38.50
31-50 years	117	145	166	203	290	406	481	536	625	5.78	6.63	7.34	8.61	11.50	15.10	17.10	18.20	19.40
51-70 years	105	131	150	182	259	360	423	467	534	5.76	6.51	7.10	8.31	11.50	15.80	18.10	19.90	24.10
71 + years	76	98	116	145	215	306	366	410	483	5.13	5.63	6.04	6.98	10.60	15.10	17.60	19.30	22.40
Income-eligible, food stamp nonparticipants																		
2-3 years	119	134	146	164	202	› 249	›› 277	›› 297	››› 328	3.94	4.27	4.57	5.08	6.21	7.66	8.59	9.28	10.40
4-8 years	130	146	157	176	215	264	295	318	354	4.20	4.70	4.90	4.98	5.92	8.45	10.00	11.20	13.50
9-13 years	144	162	175	196	239	291	323	347	386	4.99	5.30	5.62	6.27	8.04	10.80	12.50	13.90	15.90
14-18 years	165	182	195	215	258	310	341	364	400	6.87	7.41	7.83	8.60	10.50	13.00	14.40	15.40	17.10
19-30 years	123	151	173	211	297	408	478	529	612	5.39	6.20	6.79	7.83	10.50	13.40	15.00	16.20	18.10
31-50 years	››› 147	›› 177	›› 201	› 239	325	435	510	571	674	5.00	5.29	5.96	7.57	11.00	17.10	22.90	27.50	34.90
51-70 years	›› 82	›› 104	›› 121	› 150	› 214	› 298	› 352	› 393	457	4.14	4.69	5.18	6.10	8.52	11.70	13.80	15.50	18.80
71 + years	75	93	107	131	183	›› 249	››› 291	››› 320	››› 367	3.18	3.47	3.69	4.10	5.05	6.13	6.74	7.18	7.91
Higher-income, food stamp nonparticipants																		
2-3 years	››› 79	››› 92	››› 102	››› 117	››› 152	››› 196	››› 224	››› 245	››› 278	2.52	2.69	2.79	2.98	3.74	5.22	6.22	6.91	8.05
4-8 years	››› 100	››› 116	››› 127	››› 145	›› 186	237	270	295	336	2.46	2.76	2.98	3.34	4.18	5.64	6.86	7.84	9.41
9-13 years	››› 125	››› 143	››› 157	››› 178	› 228	292	336	369	426	2.51	2.68	2.82	3.09	4.19	7.40	10.70	13.90	20.60
14-18 years	››› 124	››› 147	››› 163	›› 190	249	326	376	415	480	4.07	4.46	4.83	5.58	7.78	11.00	13.10	14.80	17.90
19-30 years	››› 149	› 173	192	222	290	378	435	479	550	2.99	3.40	3.75	4.44	6.47	9.91	12.40	14.30	17.30
31-50 years	131	154	172	201	269	› 358	›› 416	›› 459	››› 531	2.09	2.35	2.61	3.10	4.45	6.35	7.65	8.66	10.20
51-70 years	109	131	146	173	234	315	› 368	408	475	1.81	2.02	2.24	2.69	3.94	5.83	7.28	8.55	11.00
71 + years	››› 100	› 118	132	154	205	270	› 313	› 344	›› 396	2.57	2.87	3.08	3.43	4.31	5.68	6.75	7.65	9.32

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-68—Distribution of usual intake of cholesterol in milligrams — Continued

Male

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	93	108	120	138	180	234	267	292	330	2.32	2.43	2.58	2.96	4.12	5.19	6.00	6.67	7.89
4-8 years	112	129	142	162	206	260	294	321	365	2.96	3.21	3.41	3.76	4.46	5.45	6.26	6.95	8.19
9-13 years	166	184	197	217	261	316	352	379	425	3.38	3.72	3.98	4.46	6.06	10.50	14.50	17.80	23.70
14-18 years	190	213	230	258	319	391	436	469	521	5.11	5.77	6.31	7.24	9.32	11.80	13.30	14.40	16.30
19-30 years	194	224	246	283	367	474	543	594	677	4.18	4.46	4.75	5.43	7.67	11.30	13.80	15.50	18.10
31-50 years	177	206	227	263	341	440	505	554	635	3.52	3.89	4.19	4.80	6.44	8.64	9.90	10.80	12.40
51-70 years	151	177	195	226	295	382	438	479	547	3.58	3.63	3.65	3.74	4.52	6.76	8.71	10.30	13.20
71 + years	123	145	162	190	255	336	388	426	487	3.25	3.65	3.98	4.54	5.94	7.88	9.18	10.30	12.30
Persons currently receiving food stamps																		
2-3 years	141	158	171	191	234	283	312	333	365	5.46	5.92	6.22	6.66	7.53	8.62	9.37	9.95	10.90
4-8 years	145	161	172	190	230	277	306	327	362	6.91	7.66	8.19	9.01	10.70	13.00	14.50	15.70	17.50
9-13 years	215	229	239	254	285	320	340	355	378	8.14	8.92	9.51	10.50	12.60	15.10	16.50	17.50	19.10
14-18 years	162	187	205	235	300	377	425	459	515	12.00	12.60	13.10	13.90	15.80	18.70	21.00	22.90	26.20
19-30 years	221	252	274	309	382	471	525	564	627	13.90	16.00	17.60	19.60	23.20	27.20	30.30	32.80	37.80
31-50 years	169	210	242	294	416	570	664	732	835	14.30	16.00	17.30	19.50	24.90	28.50	28.20	27.20	26.30
51-70 years	149	184	211	255	352	456	509	543	592	14.00	16.50	18.70	22.60	29.00	29.60	27.80	26.40	25.10
71 + years	193	219	237	267	326	392	430	457	498	14.10	15.90	17.10	18.90	21.70	23.60	24.60	25.50	27.30
Income-eligible, food stamp nonparticipants																		
2-3 years	137	150	160	175	206	› 241	›› 261	››› 275	››› 298	5.69	6.26	6.70	7.38	8.65	9.87	10.50	11.00	11.70
4-8 years	140	156	167	184	222	268	298	320	355	5.65	6.27	6.62	7.13	8.45	10.90	12.90	14.60	17.60
9-13 years	183	203	217	240	289	350	388	416	461	8.36	9.12	9.73	10.80	13.60	18.00	20.90	23.10	26.40
14-18 years	››› 251	››› 267	›› 279	› 297	334	374	397	414	439	13.60	14.50	15.10	16.00	17.80	19.70	20.70	21.40	22.50
19-30 years	› 165	202	230	277	382	512	593	652	748	10.80	11.80	12.60	14.00	16.70	19.60	21.20	22.40	25.30
31-50 years	211	245	269	310	404	533	618	682	788	10.30	10.80	11.40	13.00	18.40	28.70	34.70	38.90	46.60
51-70 years	› 98	›› 125	›› 144	›› 176	›› 249	›› 344	›› 404	› 447	514	7.36	7.30	7.55	8.32	10.40	11.70	13.00	14.60	18.60
71 + years	››› 96	››› 121	››› 141	››› 173	›› 245	330	380	415	469	6.53	6.89	7.29	8.16	10.10	11.10	11.30	11.60	12.90
Higher-income, food stamp nonparticipants																		
2-3 years	››› 76	››› 89	››› 99	››› 115	››› 153	››› 202	››› 235	››› 260	›› 300	3.46	3.74	3.96	4.41	5.93	8.50	10.30	11.70	14.20
4-8 years	››› 99	››› 116	››› 129	››› 150	› 195	253	291	320	367	3.90	4.37	4.66	5.05	5.77	7.50	9.11	10.40	12.30
9-13 years	››› 148	››› 166	››› 179	››› 201	248	309	347	376	423	3.67	4.00	4.26	4.78	6.90	12.30	17.80	23.00	33.60
14-18 years	177	201	220	252	322	410	466	508	578	6.76	7.55	8.21	9.48	12.90	17.40	20.30	22.50	26.00
19-30 years	222	249	269	302	374	462	517	558	623	5.22	5.79	6.35	7.43	10.60	15.40	18.00	19.70	22.10
31-50 years	174	201	222	256	›› 331	››› 426	››› 487	››› 532	››› 607	3.88	4.32	4.67	5.36	7.23	9.62	11.00	12.00	13.50
51-70 years	155	179	198	228	296	381	436	476	543	3.54	3.81	4.07	4.57	6.08	8.64	10.60	12.20	15.00
71 + years	››› 130	››› 152	›› 169	›› 196	› 258	336	385	422	481	4.14	4.62	5.01	5.65	7.20	9.61	11.40	12.80	15.60

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-68—Distribution of usual intake of cholesterol in milligrams — Continued

Female

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	87	101	111	128	167	216	246	269	305	1.99	2.16	2.27	2.48	3.21	4.22	4.73	5.07	5.61
4-8 years	108	121	132	149	187	238	271	296	338	1.51	1.63	1.76	2.05	3.09	5.33	7.15	8.57	10.90
9-13 years	115	132	144	165	211	269	305	332	375	2.42	2.50	2.60	2.87	3.92	5.64	6.87	7.84	9.51
14-18 years	122	138	149	167	204	247	274	292	323	3.87	4.09	4.24	4.49	5.16	6.22	6.87	7.33	8.00
19-30 years	124	143	156	178	227	291	332	363	414	2.13	2.42	2.67	3.11	4.42	6.81	9.18	11.30	14.60
31-50 years	120	139	153	176	226	289	329	360	410	1.55	1.70	1.91	2.38	3.45	4.75	5.85	6.86	8.65
51-70 years	96	113	125	146	191	247	283	310	354	1.64	1.85	2.03	2.37	3.15	4.20	5.03	5.75	7.14
71 + years	85	100	111	129	168	217	247	270	308	2.04	2.21	2.32	2.49	2.95	3.75	4.34	4.82	5.74
Persons currently receiving food stamps																		
2-3 years	84	101	114	135	191	269	314	345	391	4.33	4.72	5.10	6.26	10.10	12.50	12.60	12.80	13.80
4-8 years	120	135	146	164	207	264	303	332	383	3.08	3.50	3.98	5.11	9.22	16.10	20.10	23.00	28.00
9-13 years	119	138	152	175	224	284	320	347	389	5.32	6.18	6.69	7.34	8.43	10.30	12.00	13.50	15.90
14-18 years	136	156	171	195	247	311	350	379	424	6.06	6.89	7.52	8.61	11.30	13.80	14.90	15.60	16.60
19-30 years	121	145	163	193	272	381	449	499	583	4.10	4.38	4.82	6.14	13.50	28.20	35.70	40.70	49.60
31-50 years	108	128	143	168	225	298	345	380	437	5.42	5.81	6.14	6.76	8.47	10.90	12.50	13.60	15.20
51-70 years	95	117	134	161	225	308	362	401	464	6.92	8.62	9.86	11.80	15.80	21.80	25.80	29.00	34.10
71 + years	51	69	83	107	164	246	305	352	435	6.22	6.82	7.16	7.61	10.20	18.60	25.70	31.50	42.60
Income-eligible, food stamp nonparticipants																		
2-3 years	› 105	121	133	153	200	256	292	318	360	5.43	6.14	6.60	7.37	8.65	10.90	12.50	14.00	16.40
4-8 years	120	135	146	165	205	257	291	317	360	4.53	5.16	5.56	6.19	7.81	10.90	13.10	15.00	18.30
14-18 years	139	152	161	176	207	›› 243	››› 264	››› 280	››› 305	8.05	8.65	9.10	9.83	11.40	13.10	14.30	15.20	16.70
19-30 years	126	144	158	180	227	›› 282	›› 315	›› 339	››› 376	5.40	6.10	6.63	7.52	9.42	11.60	12.80	13.70	14.90
31-50 years	128	151	› 169	› 198	› 267	› 355	408	447	508	5.80	6.09	6.36	7.20	11.10	17.20	20.80	23.90	29.70
51-70 years	95	112	126	147	195	256	294	322	368	6.30	7.35	8.21	9.78	13.70	19.20	23.00	26.10	31.60
71 + years	›› 78	› 94	105	125	166	215	244	265	› 298	3.76	4.01	4.20	4.52	5.26	6.24	6.95	7.53	8.58
Higher-income, food stamp nonparticipants																		
2-3 years	84	96	105	120	›› 151	››› 189	››› 213	››› 231	››› 259	2.55	2.73	2.88	3.17	4.05	5.48	6.46	7.22	8.51
4-8 years	››› 104	››› 117	››› 126	›› 141	›› 174	› 216	› 242	› 262	› 294	2.59	2.79	2.96	3.25	4.08	5.62	6.84	7.86	9.69
9-13 years	117	133	146	166	211	268	306	336	385	3.42	3.50	3.58	3.83	5.17	7.37	9.17	10.90	14.50
14-18 years	117	› 131	›› 141	›› 157	››› 190	››› 229	››› 252	››› 269	››› 295	4.76	5.09	5.32	5.66	6.40	7.41	8.14	8.74	9.81
19-30 years	124	141	153	173	›› 217	›› 273	›› 308	›› 335	››› 378	3.23	3.56	3.85	4.43	6.08	8.62	10.60	12.20	15.10
31-50 years	124	142	155	175	219	274	310	› 336	›› 380	2.14	2.32	2.42	2.57	3.08	4.23	5.26	6.21	8.06
51-70 years	95	111	123	142	186	› 241	›› 276	›› 303	›› 346	1.71	1.85	2.00	2.29	2.98	3.86	4.54	5.21	6.73
71 + years	››› 89	››› 103	››› 114	130	166	212	241	› 262	› 297	2.63	2.88	3.04	3.30	3.97	5.03	5.79	6.39	7.46

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).* 'Total Persons' includes persons with missing FSP participation or income.

Table D-69—Mean usual intake of sodium in milligrams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
2-3 years	2,174	2,258	20.6	739	2,472	42.2	446	2,401	59.0	867	›››2,156	31.9
4-8 years	3,448	2,856	26.1	1,068	3,037	54.5	712	3,077	58.0	1,470	›››2,766	33.5
9-13 years	2,457	3,493	45.4	663	3,452	68.8	538	3,385	70.8	1,113	3,544	61.9
14-18 years	1,938	3,876	64.9	485	3,784	118.7	431	3,672	111.8	871	3,936	81.2
19-30 years	4,103	3,960	34.4	756	3,810	103.4	962	3,770	97.4	2,078	› 4,050	47.7
31-50 years	5,588	3,719	30.0	831	3,595	113.8	935	3,514	84.3	3,469	3,769	34.4
51-70 years	4,019	3,177	20.0	453	2,867	127.9	687	2,968	90.4	2,533	›› 3,250	27.5
71 + years	2,623	2,712	24.9	239	2,572	112.5	571	2,361	43.3	1,525	› 2,852	30.6
Total, age adjusted	26,350	3,463	13.3	5,234	3,339	48.3	5,282	3,295	37.0	13,926	›››3,518	16.6
Males												
2-3 years	1,076	2,335	26.5	389	2,556	51.1	217	2,455	79.0	417	›››2,225	46.1
4-8 years	1,707	3,044	40.8	500	3,233	84.5	346	3,390	80.8	756	›› 2,946	50.4
9-13 years	1,219	3,808	77.2	338	3,663	131.9	256	3,887	95.3	555	3,868	101.8
14-18 years	909	4,638	93.8	217	4,002	164.6	203	4,214	150.2	403	›››4,917	120.9
19-30 years	1,902	4,746	68.0	241	4,640	197.4	483	4,650	143.4	1,012	4,836	92.4
31-50 years	2,533	4,448	45.6	281	4,712	351.1	437	4,261	143.5	1,656	4,473	48.5
51-70 years	1,942	3,814	35.1	183	3,326	234.7	324	3,782	147.8	1,284	› 3,861	42.1
71 + years	1,255	3,186	37.5	106	3,091	134.5	232	›› 2,651	84.5	798	3,323	46.4
Total, age adjusted	12,543	4,076	21.8	2,255	4,006	124.5	2,498	3,951	59.9	6,881	4,134	26.4
Females												
2-3 years	1,098	2,177	35.2	350	2,364	80.7	229	2,357	81.8	450	›› 2,085	43.3
4-8 years	1,741	2,650	25.2	568	2,870	44.3	366	2,738	51.1	714	›››2,541	29.7
9-13 years	1,238	3,178	53.1	325	3,247	105.5	282	›› 2,907	71.8	558	3,208	72.6
14-18 years	1,029	3,130	65.5	268	3,624	144.2	–	–	–	468	›››2,943	67.2
19-30 years	2,201	3,212	36.9	515	3,447	96.5	479	›››2,868	80.0	1,066	3,236	58.0
31-50 years	3,055	3,034	29.1	550	2,917	89.9	498	2,879	76.9	1,813	3,072	33.1
51-70 years	2,077	2,615	19.8	270	2,644	137.4	363	› 2,292	91.6	1,249	2,665	27.6
71 + years	1,368	2,394	30.2	133	2,313	130.2	339	2,247	46.4	727	2,468	40.5
Total, age adjusted	13,807	2,897	13.6	2,979	2,960	44.7	2,784	›››2,726	36.1	7,045	2,907	17.3

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-70—Percent of persons meeting Dietary Guidelines recommendation for usual intake of sodium[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
2-3 years	2,174	63.4	1.3	739	49.4	2.6	446	55.2	3.2	867	›››70.4	2.3
4-8 years	3,448	26.6	1.3	1,068	17.0	2.0	712	20.0	1.9	1,470	›››31.0	1.9
9-13 years	2,457	9.9	0.7	663	12.3	1.3	538	›››5.5	1.3	1,113	10.8	0.9
14-18 years	1,938	10.9	0.9	485	4.4	1.4	431	6.8	1.8	871	›››12.7	1.1
19-30 years	4,103	10.6	0.4	756	18.6	1.6	962	15.5	1.4	2,078	›››7.8	0.5
31-50 years	5,588	13.9	0.5	831	23.0	1.6	935	21.3	1.7	3,469	›››12.2	0.6
51-70 years	4,019	25.5	0.6	453	38.9	4.1	687	36.1	2.2	2,533	›››22.5	0.7
71 + years	2,623	41.0	1.1	239	48.2	4.4	571	› 58.0	2.2	1,525	›› 35.0	1.3
Total, age adjusted	26,350	19.6	0.3	5,234	25.5	1.0	5,282	24.8	0.8	13,926	›››18.3	0.3
Males												
2-3 years	1,076	58.4	1.9	389	41.7	4.0	217	51.7	4.5	417	›››66.8	3.6
4-8 years	1,707	20.7	1.7	500	7.9	1.9	346	› 13.4	1.6	756	›››24.9	2.4
9-13 years	1,219	4.9	0.8	338	0.8	0.6	256	1.2	0.5	555	›››6.6	1.1
14-18 years	909	1.8	0.4	217	0.5	0.6	203	›› 4.9	1.3	403	1.6	0.5
19-30 years	1,902	2.0	0.3	241	7.9	2.1	483	3.7	0.8	1,012	›› 1.0	0.2
31-50 years	2,533	3.3	0.3	281	7.3	1.8	437	8.3	1.5	1,656	› 2.5	0.3
51-70 years	1,942	9.0	0.5	183	24.1	5.6	324	14.2	1.6	1,284	›› 7.0	0.5
71 + years	1,255	22.7	1.1	106	25.9	4.4	232	›› 43.2	3.5	798	19.0	1.3
Total, age adjusted	12,543	8.7	0.2	2,255	12.1	1.3	2,498	12.5	0.7	6,881	›› 8.2	0.3
Females												
2-3 years	1,098	68.2	2.1	350	57.0	3.8	229	58.0	4.7	450	›››74.4	2.8
4-8 years	1,741	34.9	1.7	568	26.4	2.2	366	28.3	3.4	714	›››41.6	2.4
9-13 years	1,238	13.9	1.3	325	19.6	2.8	282	›› 7.9	3.3	558	13.2	1.9
14-18 years	1,029	15.6	2.0	268	0.9	0.8	–	–	–	468	›››25.7	2.8
19-30 years	2,201	16.6	1.0	515	22.9	1.6	479	29.2	3.2	1,066	›››11.2	1.3
31-50 years	3,055	23.2	1.1	550	33.1	3.0	498	32.4	3.0	1,813	›››20.5	1.1
51-70 years	2,077	41.7	0.9	270	45.7	5.3	363	59.6	5.0	1,249	38.6	1.2
71 + years	1,368	55.2	1.7	133	61.4	5.7	339	64.4	2.4	727	50.3	2.2
Total, age adjusted	13,807	29.1	0.5	2,979	33.0	1.5	2,784	35.6	1.5	7,045	›› 27.8	0.6

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

[1] National Research Council's Diet and Health recommendation for intake of sodium is less than or equal to 2400 milligrams.

– Estimate of usual intake could not be obtained for the gender-age group cell. The cell was pooled with a neighboring age group to determine its contribution to the 'Total, age-adjusted' row.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-71—Distribution of usual sodium intake in milligrams

Both sexes

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	1,379	1,539	1,652	1,829	2,193	2,617	2,875	3,063	3,363	16.10	15.90	15.90	16.40	19.00	24.30	29.20	33.70	42.10
4-8 years	1,841	2,027	2,161	2,371	2,796	3,271	3,554	3,759	4,085	22.50	22.80	23.20	23.90	26.10	30.00	33.50	36.70	42.50
9-13 years	2,174	2,405	2,568	2,824	3,361	4,014	4,428	4,739	5,254	23.60	25.30	27.00	30.50	38.00	51.60	71.50	93.50	137.00
14-18 years	2,043	2,356	2,586	2,952	3,730	4,640	5,187	5,583	6,206	39.50	43.20	45.60	49.60	61.80	80.80	94.20	104.00	119.00
19-30 years	2,062	2,368	2,596	2,965	3,768	4,734	5,339	5,789	6,529	19.40	19.90	20.90	23.20	29.40	43.40	56.90	69.00	91.60
31-50 years	1,922	2,224	2,443	2,792	3,540	4,448	5,017	5,440	6,127	17.80	18.90	20.00	22.20	28.40	39.00	48.00	55.60	69.70
51-70 years	1,638	1,900	2,089	2,387	3,019	3,786	4,274	4,642	5,252	17.20	16.20	15.60	15.00	17.10	26.10	34.50	42.10	57.70
71 + years	1,393	1,619	1,784	2,045	2,596	3,242	3,644	3,943	4,435	19.40	19.90	20.40	22.00	25.70	29.30	35.60	41.90	55.30
Persons currently receiving food stamps																		
2-3 years	1,485	1,669	1,799	2,000	2,411	2,878	3,155	3,355	3,670	31.30	31.60	32.60	35.40	42.30	50.70	58.40	65.80	81.50
4-8 years	2,024	2,218	2,353	2,560	2,973	3,447	3,735	3,943	4,270	43.00	43.40	44.20	46.30	53.10	63.30	70.00	74.90	82.50
9-13 years	2,053	2,309	2,493	2,779	3,368	4,032	4,423	4,703	5,141	42.80	43.90	45.80	51.00	69.20	93.00	107.00	119.00	141.00
14-18 years	2,439	2,691	2,870	3,148	3,712	4,339	4,706	4,968	5,378	91.20	95.90	99.50	106.00	119.00	135.00	144.00	152.00	165.00
19-30 years	1,632	1,985	2,243	2,646	3,492	4,602	5,387	6,009	7,072	60.20	62.90	64.60	67.90	89.70	138.00	169.00	196.00	251.00
31-50 years	1,598	1,897	2,115	2,465	3,276	4,421	5,177	5,735	6,640	53.80	54.30	54.50	57.40	97.50	172.00	205.00	231.00	284.00
51-70 years	1,287	1,538	1,725	2,029	2,694	3,512	4,028	4,412	5,039	64.10	70.90	77.10	89.90	124.00	164.00	189.00	210.00	249.00
71 + years	1,237	1,453	1,613	1,873	2,440	3,127	3,551	3,861	4,357	59.50	62.40	65.10	71.80	100.00	151.00	186.00	214.00	266.00
Income-eligible, food stamp nonparticipants																		
2-3 years	1,353	1,537	1,668	1,874	2,308	2,829	3,154	3,393	3,775	51.40	50.60	50.20	50.20	55.10	72.70	85.90	95.90	112.00
4-8 years	1,910	2,120	2,273	2,515	3,006	3,552	3,876	4,112	4,493	39.00	39.60	41.20	45.50	59.10	73.60	84.60	95.40	116.00
9-13 years	›››2,377	›› 2,571	› 2,703	2,905	3,319	3,799	4,090	4,298	› 4,619	63.20	60.90	59.80	60.10	68.60	83.00	91.10	96.30	103.00
14-18 years	2,297	2,544	2,717	2,986	3,554	4,235	4,657	4,966	5,453	95.30	94.40	94.60	97.00	107.00	126.00	140.00	150.00	168.00
19-30 years	›› 1,874	2,159	2,378	2,747	3,566	4,551	5,174	5,645	6,420	41.00	47.20	54.60	67.80	93.00	125.00	151.00	173.00	207.00
31-50 years	1,610	1,925	2,157	2,529	3,327	4,290	4,890	5,334	6,055	51.80	54.10	57.20	63.60	81.20	109.00	127.00	143.00	172.00
51-70 years	1,337	1,601	1,794	2,103	2,766	3,592	4,132	4,548	5,265	51.90	53.30	53.40	53.80	63.60	111.00	157.00	196.00	273.00
71 + years	1,196	1,399	1,542	1,765	2,241	2,816	3,180	3,457	3,926	30.70	27.00	27.00	30.60	41.80	59.70	77.30	93.90	128.00
Higher-income, food stamp nonparticipants																		
2-3 years	› 1,362	›››1,509	›››1,613	›››1,776	›››2,108	›››2,480	›››2,701	›››2,862	›››3,121	22.90	22.50	22.80	24.60	31.00	39.10	44.30	48.50	55.90
4-8 years	›››1,790	›››1,968	›››2,095	›››2,295	›››2,706	›› 3,170	›› 3,443	›› 3,641	› 3,951	30.90	31.20	31.20	31.20	32.40	38.40	43.50	47.60	54.70
9-13 years	2,140	2,371	2,538	2,804	3,378	4,093	4,557	4,911	5,508	29.70	30.80	32.60	36.80	49.50	73.00	97.80	124.00	182.00
14-18 years	›››1,932	›››2,262	› 2,507	2,902	3,754	4,772	›› 5,392	›››5,844	›››6,562	49.20	54.10	57.80	64.30	80.30	105.00	120.00	132.00	150.00
19-30 years	›››2,214	›››2,515	›››2,736	›››3,092	›› 3,866	4,809	5,394	5,825	6,515	26.60	29.00	31.40	35.80	45.30	59.70	73.00	84.90	107.00
31-50 years	›››1,999	›››2,300	›››2,518	›››2,863	› 3,600	4,489	5,042	5,452	6,117	22.20	23.40	24.50	26.40	32.20	42.20	50.40	57.80	73.40
51-70 years	›››1,729	›››1,988	›››2,174	›››2,469	› 3,094	3,853	4,336	4,700	5,302	19.00	18.40	18.30	19.10	24.60	37.50	47.20	55.00	69.50
71 + years	›› 1,482	›››1,721	›››1,894	›› 2,166	› 2,733	3,404	3,821	4,130	4,631	23.90	24.90	25.90	27.40	30.30	38.20	46.60	54.00	68.10

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-71—Distribution of usual sodium intake in milligrams — Continued

Male

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	1,486	1,643	1,754	1,926	2,279	2,684	2,926	3,101	3,375	22.10	22.00	22.20	22.90	26.10	32.90	38.20	42.10	48.30
4-8 years	1,898	2,109	2,259	2,493	2,970	3,516	3,843	4,078	4,445	37.70	38.70	39.20	39.20	40.50	46.40	51.80	56.30	63.90
9-13 years	2,404	2,649	2,823	3,097	3,672	4,365	4,802	5,128	5,669	46.60	48.90	50.60	53.20	60.80	90.80	129.00	162.00	222.00
14-18 years	2,785	3,117	3,354	3,728	4,522	5,434	5,956	6,320	6,875	69.40	71.10	72.70	76.70	92.50	114.00	126.00	134.00	147.00
19-30 years	2,753	3,100	3,352	3,753	4,596	5,575	6,162	6,585	7,253	49.80	51.90	53.70	57.30	67.00	81.90	95.10	105.00	118.00
31-50 years	2,560	2,885	3,121	3,497	4,304	5,245	5,801	6,199	6,827	30.00	31.00	32.80	36.30	44.50	57.10	67.40	76.00	92.00
51-70 years	2,167	2,448	2,651	2,974	3,657	4,473	4,984	5,368	6,003	25.20	24.20	24.20	24.70	30.40	46.30	59.00	69.40	89.20
71 + years	1,686	1,961	2,158	2,464	3,078	3,784	4,223	4,545	5,058	25.80	28.00	29.40	31.50	36.30	47.20	54.80	61.40	75.40
Persons currently receiving food stamps																		
2-3 years	1,697	1,864	1,980	2,158	2,515	2,909	3,137	3,300	3,552	45.80	47.40	49.40	52.60	55.70	55.60	56.80	59.10	66.00
4-8 years	2,289	2,464	2,589	2,783	3,181	3,633	3,893	4,074	4,351	61.90	66.90	70.70	76.60	86.40	95.90	102.00	106.00	114.00
9-13 years	2,751	2,928	3,053	3,244	3,626	4,041	4,279	4,446	4,703	97.50	103.00	107.00	114.00	130.00	151.00	165.00	176.00	194.00
14-18 years	2,901	3,110	3,259	3,488	3,949	4,459	4,753	4,960	5,282	143.00	148.00	151.00	156.00	164.00	176.00	184.00	191.00	203.00
19-30 years	2,140	2,552	2,850	3,320	4,335	5,628	6,459	7,081	8,116	157.00	160.00	158.00	160.00	197.00	236.00	257.00	287.00	393.00
31-50 years	2,228	2,568	2,831	3,288	4,413	5,833	6,678	7,287	8,239	123.00	140.00	158.00	196.00	301.00	433.00	557.00	678.00	929.00
51-70 years	1,617	1,900	2,103	2,428	3,143	4,045	4,609	5,017	5,654	119.00	133.00	147.00	169.00	230.00	311.00	353.00	376.00	400.00
71 + years	1,579	1,870	2,071	2,375	3,020	3,765	4,153	4,398	4,761	109.00	113.00	118.00	123.00	148.00	178.00	182.00	185.00	222.00
Income-eligible, food stamp nonparticipants																		
2-3 years	›››1,391	›››1,573	›› 1,706	› 1,918	2,368	2,897	3,217	3,449	3,816	49.70	54.20	58.70	66.20	80.40	102.00	118.00	129.00	140.00
4-8 years	› 2,027	2,275	2,451	2,723	3,280	3,940	4,351	› 4,653	›› 5,135	53.60	50.30	49.30	53.00	78.70	112.00	138.00	159.00	192.00
9-13 years	2,743	2,963	3,117	3,358	3,846	4,381	4,677	4,878	5,170	84.40	84.30	85.80	90.00	99.70	109.00	113.00	115.00	116.00
14-18 years	2,409	2,726	2,951	3,306	4,056	4,954	5,507	›› 5,912	›››6,559	111.00	120.00	125.00	130.00	151.00	185.00	206.00	222.00	246.00
19-30 years	2,531	2,888	3,152	3,570	4,450	5,523	6,198	6,690	7,458	83.80	92.40	99.60	112.00	142.00	181.00	208.00	229.00	262.00
31-50 years	2,132	2,514	2,788	3,219	4,108	5,133	5,751	6,200	6,913	108.00	106.00	109.00	117.00	140.00	172.00	198.00	221.00	262.00
51-70 years	1,898	2,208	2,432	2,786	3,540	4,482	5,109	5,598	6,456	58.30	60.20	62.80	68.20	99.00	178.00	245.00	305.00	434.00
71 + years	› 1,209	› 1,467	› 1,654	› 1,949	2,562	3,257	3,663	3,951	4,397	67.40	64.90	66.00	72.20	87.30	105.00	125.00	143.00	177.00
Higher-income, food stamp nonparticipants																		
2-3 years	›››1,465	›››1,607	›››1,708	›››1,863	›››2,177	›››2,533	›››2,747	›››2,902	›››3,149	32.90	33.80	35.10	38.00	46.00	56.00	63.40	69.40	79.50
4-8 years	›››1,802	›››2,014	›››2,165	›››2,401	› 2,876	3,414	3,736	3,969	4,332	49.10	50.90	51.70	51.30	48.80	55.30	63.60	70.30	81.70
9-13 years	›››2,305	› 2,567	2,757	3,058	3,700	4,486	› 4,988	›› 5,368	›› 6,001	54.40	57.30	59.60	63.50	76.20	114.00	160.00	208.00	314.00
14-18 years	2,860	3,224	3,487	3,905	›››4,792	›››5,793	›››6,366	›››6,771	›››7,399	101.00	98.40	98.40	102.00	120.00	147.00	160.00	169.00	187.00
19-30 years	›››2,948	›››3,280	›› 3,521	›› 3,904	4,707	5,629	6,174	6,563	7,169	66.90	71.90	75.90	82.50	94.90	107.00	116.00	124.00	140.00
31-50 years	›› 2,653	› 2,973	3,205	3,571	4,338	5,226	5,758	6,142	6,751	35.40	36.60	38.20	41.00	47.70	60.50	68.60	75.60	90.70
51-70 years	›››2,273	›››2,545	›››2,741	›› 3,051	3,704	4,494	4,993	5,366	5,983	27.40	26.90	27.20	29.40	41.30	59.60	70.30	78.50	93.80
71 + years	1,795	2,071	2,268	2,573	3,205	3,949	4,400	4,725	5,239	36.00	39.00	40.40	41.90	46.30	55.40	63.40	71.20	88.30

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).* 'Total Persons' includes persons with missing FSP participation or income.

Table D-71—Distribution of usual sodium intake in milligrams — Continued

Female

	Percentiles									Standard errors of percentiles								
	5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																		
2-3 years	1,274	1,437	1,552	1,731	2,102	2,538	2,807	3,008	3,334	21.90	22.50	23.30	25.20	31.50	43.10	52.50	60.60	75.60
4-8 years	1,812	1,971	2,083	2,256	2,605	2,993	3,220	3,383	3,639	24.80	24.90	24.70	24.10	24.40	27.60	31.30	34.30	38.90
9-13 years	2,098	2,292	2,428	2,643	3,093	3,625	3,944	4,175	4,539	32.40	31.80	32.20	35.10	48.30	69.50	81.40	89.30	101.00
14-18 years	2,037	2,240	2,384	2,609	3,067	3,583	3,886	4,102	4,440	47.10	49.60	51.80	55.90	65.30	75.70	81.30	85.40	92.60
19-30 years	1,992	2,205	2,357	2,599	3,110	3,712	4,078	4,345	4,777	24.30	24.90	25.70	27.50	33.20	44.70	55.00	64.50	82.90
31-50 years	1,817	2,038	2,195	2,440	2,944	3,525	3,877	4,136	4,553	21.80	22.20	22.80	24.10	27.90	34.30	40.40	47.20	63.40
51-70 years	1,527	1,729	1,872	2,095	2,546	3,056	3,362	3,584	3,939	18.50	17.90	17.40	16.70	17.00	23.60	30.70	36.80	48.20
71 + years	1,361	1,546	1,678	1,884	2,310	2,805	3,110	3,336	3,709	24.10	24.10	24.30	25.10	28.80	36.30	44.10	52.30	69.70
Persons currently receiving food stamps																		
2-3 years	1,218	1,411	1,551	1,774	2,257	2,844	3,204	3,466	3,877	56.50	57.00	58.00	61.10	73.90	103.00	124.00	139.00	164.00
4-8 years	1,814	2,015	2,156	2,374	2,807	3,288	3,580	3,798	4,156	55.20	48.90	45.80	42.40	39.20	48.00	58.20	67.00	82.40
9-13 years	1,778	2,053	2,249	2,554	3,167	3,853	4,258	4,546	4,993	82.70	79.90	79.20	81.50	100.00	135.00	155.00	167.00	185.00
14-18 years	2,748	2,930	3,055	3,243	3,603	3,982	4,196	4,345	4,574	117.00	122.00	125.00	131.00	144.00	159.00	168.00	175.00	185.00
19-30 years	1,576	1,889	2,115	2,469	3,205	4,125	4,765	5,280	6,175	55.40	53.50	52.20	52.20	75.70	130.00	177.00	218.00	294.00
31-50 years	1,541	1,781	1,952	2,218	2,764	3,443	3,895	4,240	4,813	64.90	66.10	65.90	65.20	71.80	116.00	152.00	176.00	215.00
51-70 years	1,249	1,473	1,642	1,913	2,501	3,209	3,652	3,982	4,525	68.60	76.30	82.50	94.20	128.00	175.00	205.00	231.00	284.00
71 + years	1,162	1,352	1,489	1,706	2,168	2,753	3,142	3,444	3,957	66.90	68.10	71.10	79.90	110.00	164.00	215.00	262.00	350.00
Income-eligible, food stamp nonparticipants																		
2-3 years	1,332	1,520	1,652	1,854	2,263	2,757	3,077	3,319	3,712	74.10	70.90	68.50	65.80	73.70	103.00	125.00	142.00	171.00
4-8 years	1,894	2,053	2,168	2,348	2,711	3,096	›› 3,308	››› 3,454	››› 3,677	44.80	46.30	47.70	50.10	54.50	56.30	56.10	56.00	58.10
9-13 years	››› 2,324	›› 2,443	2,524	2,647	2,888	››› 3,146	››› 3,293	››› 3,396	››› 3,555	69.50	69.10	68.90	69.00	70.60	75.30	79.90	84.20	92.30
19-30 years	› 1,786	1,973	2,107	2,320	››› 2,778	››› 3,319	››› 3,644	››› 3,879	››› 4,253	44.30	42.90	45.50	54.00	78.10	106.00	123.00	135.00	157.00
31-50 years	1,556	1,790	1,959	2,228	2,787	3,429	3,811	4,086	4,520	48.70	51.20	54.00	60.70	79.30	98.10	110.00	120.00	140.00
51-70 years	1,263	1,448	1,582	1,795	2,231	2,717	3,001	› 3,205	› 3,529	66.30	70.00	71.90	74.90	85.40	107.00	125.00	140.00	170.00
71 + years	1,246	1,420	1,541	1,732	2,140	2,635	2,948	3,188	3,602	36.30	33.50	33.30	35.00	40.90	56.40	76.80	98.00	143.00
Higher-income, food stamp nonparticipants																		
2-3 years	1,278	1,429	1,535	1,699	2,031	›› 2,410	››› 2,640	››› 2,808	››› 3,076	30.50	29.70	30.40	32.70	41.60	53.60	60.90	67.00	79.10
4-8 years	1,811	1,948	2,045	›› 2,195	››› 2,499	››› 2,841	››› 3,043	››› 3,188	››› 3,416	28.40	28.40	28.30	28.30	28.90	32.30	36.00	39.20	45.30
9-13 years	›› 2,120	2,309	2,444	2,657	3,107	3,649	3,986	4,235	4,639	45.30	46.00	47.30	50.50	65.50	90.60	106.00	118.00	141.00
14-18 years	››› 1,792	››› 2,001	››› 2,151	››› 2,386	››› 2,872	› 3,424	3,749	3,980	4,339	51.00	53.40	55.40	59.10	68.20	78.70	83.90	87.40	93.30
19-30 years	››› 2,170	››› 2,363	››› 2,501	›› 2,716	3,161	› 3,673	››› 3,980	››› 4,203	››› 4,558	34.90	37.20	39.40	43.70	54.50	69.70	81.60	92.00	113.00
31-50 years	››› 1,895	››› 2,110	››› 2,263	››› 2,501	› 2,989	3,549	3,887	4,133	4,530	24.90	25.30	25.90	27.00	30.90	38.80	47.30	56.50	77.50
51-70 years	››› 1,588	››› 1,787	›› 1,929	2,150	2,599	3,108	3,410	3,627	3,969	20.20	19.50	19.50	20.20	24.60	34.60	42.90	50.00	63.30
71 + years	›› 1,426	›› 1,615	›› 1,751	› 1,962	2,394	2,885	3,182	3,402	3,760	30.50	31.20	31.60	32.50	36.60	48.70	60.70	71.80	94.10

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants. The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).* 'Total Persons' includes persons with missing FSP participation or income.

Table D-72—Percent of persons using table salt[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
2-3 years	2,148	26.3	1.7	726	28.6	3.2	439	28.5	3.4	861	25.6	2.4
4-8 years	3,386	33.9	1.7	1,052	31.6	2.8	694	36.0	4.8	1,448	34.9	2.4
9-13 years	2,304	54.3	2.0	617	55.0	4.1	507	52.7	6.4	1,051	54.9	2.5
14-18 years	1,890	64.1	1.9	469	65.0	4.2	419	64.6	4.9	855	64.1	2.4
19-30 years	4,018	62.0	1.5	740	68.2	3.0	927	63.8	3.8	2,050	› 60.6	2.0
31-50 years	5,517	56.0	1.5	815	64.5	3.9	908	61.5	3.2	3,448	› 55.4	1.7
51-70 years	3,950	42.7	1.8	437	38.6	4.3	670	43.8	2.6	2,514	43.1	1.9
71+ years	2,571	37.5	1.5	227	37.0	4.9	547	33.4	2.7	1,510	37.8	1.6
Total, age adjusted	25,784	51.0	0.9	5,083	53.9	1.7	5,111	53.0	1.9	13,737	50.7	1.0
Male												
2-3 years	1,064	28.1	2.0	385	28.6	4.2	213	24.0	4.7	413	29.9	3.4
4-8 years	1,679	31.6	2.2	494	28.5	2.9	338	32.2	5.9	746	32.9	2.9
9-13 years	1,150	54.1	2.8	317	56.3	5.1	247	47.7	9.0	524	54.8	3.4
14-18 years	879	67.4	2.9	208	64.0	4.8	197	61.0	8.2	391	69.9	3.2
19-30 years	1,850	62.3	2.0	233	69.1	4.1	462	64.9	4.9	993	61.3	2.6
31-50 years	2,503	59.2	1.6	275	73.9	5.3	425	67.9	3.8	1,645	› 58.2	2.0
51-70 years	1,909	47.5	2.4	175	51.0	7.6	315	51.9	4.7	1,275	46.9	2.6
71+ years	1,225	45.1	2.2	99	56.0 *	8.6	220	42.9	4.2	788	44.8	2.5
Total, age adjusted	12,259	53.7	1.0	2,186	60.7	2.8	2,417	56.4	2.0	6,775	› 53.4	1.2
Female												
2-3 years	1,084	24.3	2.2	341	28.8	3.9	226	32.6	5.6	448	21.2	3.0
4-8 years	1,707	36.4	1.8	558	34.2	4.1	356	40.1	6.2	702	37.4	2.9
9-13 years	1,154	54.5	2.7	300	53.8	5.1	260	58.0	5.3	527	55.0	3.6
14-18 years	1,011	60.8	2.4	261	65.7	5.5	222	67.6	5.8	464	58.3	3.0
19-30 years	2,168	61.7	1.8	507	67.8	3.5	465	62.6	3.9	1,057	60.0	2.3
31-50 years	3,014	53.0	1.8	540	59.0	4.4	483	56.0	4.6	1,803	52.6	2.2
51-70 years	2,041	38.4	1.9	262	32.8	4.2	355	36.9	4.1	1,239	39.4	1.7
71+ years	1,346	32.4	2.3	128	28.5	5.6	327	29.9	3.5	722	32.0	2.6
Total, age adjusted	13,525	48.6	0.9	2,897	50.4	1.8	2,694	50.5	2.2	6,962	48.2	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Does not include use of salt substitutes.

Source: NHANES-III, 1988-94: Exam file, 24-hour dietary recall. Total includes persons with missing food stamp participation or income.

Table D-73—Mean usual intake of dietary fiber in grams

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error	Sample size	Mean	Standard error
Both sexes												
2-3 years	2,174	10.1	0.12	739	10.5	0.34	446	10.2	0.26	867	10.0	0.13
4-8 years	3,448	12.4	0.12	1,068	13.0	0.34	712	13.2	0.31	1,470	› 12.1	0.16
9-13 years	2,457	14.4	0.16	663	14.9	0.39	538	14.0	0.29	1,113	14.4	0.23
14-18 years	1,938	15.1	0.26	485	14.5	0.45	431	15.2	0.70	871	15.0	0.32
19-30 years	4,103	16.3	0.17	756	15.4	0.48	962	›› 17.3	0.42	2,078	16.2	0.23
31-50 years	5,588	17.0	0.14	831	15.3	0.83	935	16.4	0.48	3,469	› 17.3	0.14
51-70 years	4,019	16.8	0.15	453	13.3	0.52	687	›› 15.1	0.41	2,533	››› 17.4	0.17
71 + years	2,623	16.1	0.15	239	13.5	0.83	571	13.7	0.23	1,525	››› 17.0	0.24
Total, age adjusted	26,350	15.9	0.06	5,234	14.4	0.30	5,282	›› 15.4	0.19	13,926	››› 16.1	0.08
Males												
2-3 years	1,076	10.6	0.16	389	10.8	0.42	217	10.8	0.39	417	10.5	0.21
4-8 years	1,707	13.0	0.18	500	14.0	0.42	346	13.6	0.39	756	› 12.8	0.25
9-13 years	1,219	15.4	0.28	338	15.3	0.48	256	14.4	0.46	555	15.9	0.37
14-18 years	909	17.4	0.40	217	15.1	0.70	203	16.7	0.79	403	›› 17.7	0.47
19-30 years	1,902	19.4	0.29	241	20.6	0.86	483	20.6	0.70	1,012	19.1	0.39
31-50 years	2,533	19.8	0.21	281	20.1	1.96	437	19.6	0.72	1,656	19.9	0.22
51-70 years	1,942	19.2	0.26	183	15.7	1.16	324	16.7	0.67	1,284	››› 19.7	0.27
71 + years	1,255	18.1	0.27	106	16.8	2.12	232	15.2	0.47	798	18.7	0.38
Total, age adjusted	12,543	18.2	0.10	2,255	17.7	0.70	2,498	17.6	0.30	6,881	18.4	0.12
Females												
2-3 years	1,098	9.6	0.18	350	10.2	0.52	229	9.7	0.28	450	9.4	0.19
4-8 years	1,741	11.7	0.16	568	12.2	0.36	366	12.8	0.44	714	› 11.2	0.22
9-13 years	1,238	13.3	0.26	325	14.3	0.66	282	13.5	0.56	558	› 12.9	0.29
14-18 years	1,029	13.0	0.31	268	14.0	0.59	228	13.9	1.11	468	› 12.4	0.39
19-30 years	2,201	13.4	0.16	515	13.2	0.39	479	14.0	0.51	1,066	13.2	0.20
31-50 years	3,055	14.3	0.14	550	12.5	0.37	498	13.6	0.51	1,813	››› 14.7	0.15
51-70 years	2,077	14.8	0.16	270	12.1	0.42	363	›› 13.8	0.49	1,249	››› 15.2	0.19
71 + years	1,368	14.8	0.16	133	11.5	0.41	339	›› 13.2	0.31	727	››› 15.6	0.22
Total, age adjusted	13,807	13.8	0.07	2,979	12.6	0.17	2,784	›› 13.5	0.23	7,045	››› 13.9	0.08

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-74—Percent of persons with usual intake of dietary fiber at or above reference standard[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipant			Higher-income Nonparticipant		
	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error	Sample size	Percent	Standard error
Both sexes												
2-3 years	2,174	84.3	0.90	739	83.3	1.93	446	81.4	2.25	867	87.2	1.12
4-8 years	3,448	83.0	0.96	1,068	85.8	1.88	712	›› 93.1	1.49	1,470	› 80.8	1.40
9-13 years	2,457	47.1	1.39	663	52.3	3.31	538	› 43.8	2.63	1,113	47.4	2.09
14-18 years	1,938	21.1	1.59	485	15.5	2.51	431	20.0	4.48	871	20.6	1.92
19-30 years	4,103	12.1	0.64	756	11.5	1.52	962	›› 18.4	1.49	2,078	10.4	0.83
31-50 years	5,588	11.2	0.52	831	11.3	2.71	935	12.9	1.47	3,469	11.1	0.58
51-70 years	4,019	11.5	0.50	453	3.9	0.95	687	› 7.3	1.32	2,533	››› 12.3	0.64
71 + years	2,623	10.0	0.66	239	8.1	2.45	571	3.2	0.50	1,525	12.6	0.98
Total, age adjusted	26,350	22.0	0.28	5,234	20.6	0.99	5,282	22.6	0.71	13,926	22.0	0.36
Males												
2-3 years	1,076	89.5	0.98	389	85.4	2.33	217	87.3	2.46	417	›› 93.6	1.10
4-8 years	1,707	89.3	1.16	500	96.1	1.01	346	92.7	1.88	756	››› 87.9	1.70
9-13 years	1,219	56.6	1.97	338	60.5	5.04	256	48.8	5.08	555	58.2	2.47
14-18 years	909	33.7	2.74	217	20.3	3.84	203	30.8	4.94	403	›› 36.4	3.39
19-30 years	1,902	23.2	1.24	241	28.8	3.85	483	30.8	2.70	1,012	20.8	1.56
31-50 years	2,533	20.5	1.02	281	25.4	5.99	437	22.0	2.93	1,656	19.9	1.11
51-70 years	1,942	19.9	1.11	183	10.6	3.30	324	12.5	2.34	1,284	›› 21.0	1.29
71 + years	1,255	16.6	1.09	106	15.5	6.75	232	7.6	1.47	798	18.0	1.67
Total, age adjusted	12,543	31.2	0.52	2,255	31.5	2.21	2,498	30.1	1.24	6,881	31.2	0.62
Females												
2-3 years	1,098	78.4	1.59	350	82.5	3.51	229	75.9	2.92	450	79.8	2.01
4-8 years	1,741	75.6	1.49	568	74.1	2.48	366	››› 93.1	2.09	714	71.2	1.99
9-13 years	1,238	38.1	2.46	325	46.8	5.55	282	39.5	4.71	558	› 34.2	3.04
14-18 years	1,029	8.1	1.40	268	17.4	2.98	228	2.5	4.97	468	›› 7.5	1.72
19-30 years	2,201	2.5	0.32	515	4.1	0.85	479	4.3	0.94	1,066	› 1.7	0.37
31-50 years	3,055	3.3	0.27	550	3.1	0.63	498	5.6	1.22	1,813	2.9	0.30
51-70 years	2,077	4.4	0.43	270	1.3	0.46	363	2.4	0.70	1,249	››› 4.6	0.59
71 + years	1,368	5.6	0.51	133	2.5	0.99	339	1.1	0.38	727	››› 8.0	0.78
Total, age adjusted	13,807	13.9	0.28	2,979	14.6	0.58	2,784	15.1	0.69	7,045	› 13.3	0.35

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Recommended fiber intake (in gm) is equivalent to age in years plus five, up to a maximum of 25 gm.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-75—Distribution of usual dietary fiber intake in grams

Both sexes

	Std[1] (g/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
2-3 years	7.0	5.6	6.4	6.9	7.8	9.7	11.9	13.3	14.3	15.9	0.09	0.09	0.09	0.09	0.12	0.15	0.17	0.19	0.23
4-8 years	6.0	7.2	8.1	8.8	9.8	12.0	14.5	16.0	17.1	18.9	0.10	0.10	0.11	0.11	0.13	0.15	0.17	0.19	0.23
9-13 years	11.0	8.0	9.1	9.8	11.1	13.7	16.9	18.9	20.4	23.0	0.09	0.10	0.10	0.12	0.15	0.20	0.26	0.32	0.43
14-18 years	16.0	7.8	8.9	9.8	11.2	14.3	18.2	20.6	22.4	25.3	0.13	0.15	0.17	0.19	0.25	0.33	0.40	0.46	0.55
19-30 years	24.5	7.5	8.9	9.9	11.6	15.2	19.8	22.8	25.1	28.9	0.11	0.12	0.12	0.13	0.16	0.21	0.27	0.32	0.41
31-50 years	25.0	8.1	9.6	10.7	12.4	16.1	20.6	23.4	25.6	29.0	0.10	0.10	0.09	0.09	0.12	0.17	0.22	0.25	0.33
51-70 years	25.0	7.7	9.2	10.3	12.1	15.9	20.6	23.5	25.7	29.3	0.11	0.12	0.12	0.12	0.14	0.18	0.22	0.25	0.31
71 + years	25.0	7.1	8.6	9.6	11.3	15.0	19.7	22.7	25.0	28.9	0.08	0.08	0.09	0.09	0.12	0.22	0.31	0.37	0.45
Persons currently receiving food stamps																			
2-3 years	7.0	5.3	6.2	6.8	7.8	10.1	12.7	14.3	15.5	17.4	0.19	0.20	0.20	0.23	0.30	0.44	0.53	0.61	0.73
4-8 years	6.0	7.4	8.4	9.1	10.2	12.6	15.3	16.9	18.2	20.2	0.22	0.24	0.25	0.27	0.33	0.41	0.46	0.50	0.56
9-13 years	11.0	8.5	9.6	10.3	11.6	14.3	17.5	19.6	21.0	23.4	0.18	0.20	0.22	0.26	0.37	0.52	0.61	0.67	0.75
14-18 years	16.0	8.0	9.1	9.9	11.2	13.8	17.1	19.1	20.6	23.1	0.34	0.35	0.36	0.38	0.44	0.54	0.61	0.66	0.74
19-30 years	24.5	6.4	7.7	8.7	10.3	14.0	19.1	22.4	24.8	28.9	0.29	0.31	0.32	0.35	0.46	0.64	0.74	0.80	0.89
31-50 years	25.0	5.6	6.9	7.8	9.5	13.4	18.9	22.8	26.0	31.6	0.26	0.29	0.31	0.36	0.64	1.19	1.58	1.92	2.58
51-70 years	25.0	5.9	7.0	7.9	9.2	12.3	16.4	19.0	20.9	23.9	0.26	0.28	0.31	0.36	0.52	0.71	0.83	0.90	1.03
71 + years	25.0	4.6	5.8	6.7	8.1	11.5	16.4	20.1	23.3	29.1	0.27	0.28	0.29	0.31	0.46	1.01	1.55	2.08	3.21
Income-eligible, food stamp nonparticipants																			
2-3 years	7.0	5.1	6.0	6.6	7.6	9.8	12.3	13.9	14.9	16.7	0.22	0.22	0.22	0.23	0.27	0.30	0.33	0.36	0.41
4-8 years	6.0	›› 8.6	› 9.5	10.1	11.0	12.9	15.0	16.4	17.3	18.9	0.23	0.25	0.26	0.28	0.31	0.36	0.39	0.42	0.47
9-13 years	11.0	› 7.6	8.7	9.5	10.7	13.3	16.5	18.5	20.0	22.5	0.26	0.26	0.26	0.26	0.28	0.33	0.37	0.41	0.49
14-18 years	16.0	8.3	9.5	10.3	11.7	14.6	18.0	20.2	21.7	24.1	0.44	0.47	0.50	0.55	0.67	0.85	0.96	1.04	1.15
19-30 years	24.5	6.7	8.2	9.3	11.3	› 15.8	› 21.7	› 25.5	› 28.3	› 32.8	0.22	0.25	0.28	0.32	0.44	0.55	0.65	0.75	0.94
31-50 years	25.0	6.4	7.9	9.0	10.9	15.0	20.4	24.0	26.7	31.0	0.29	0.32	0.34	0.37	0.47	0.63	0.72	0.79	0.92
51-70 years	25.0	6.3	7.7	8.8	› 10.6	› 14.3	18.5	21.3	23.4	26.9	0.31	0.33	0.34	0.35	0.37	0.48	0.67	0.80	1.02
71 + years	25.0	››› 6.5	››› 7.7	››› 8.5	››› 10.0	› 13.1	16.7	18.9	20.5	23.3	0.14	0.15	0.16	0.19	0.24	0.32	0.38	0.42	0.51
Higher-income, food stamp nonparticipants																			
2-3 years	7.0	› 6.0	6.7	7.2	8.0	9.7	11.6	12.8	› 13.6	› 15.0	0.12	0.12	0.12	0.12	0.13	0.15	0.16	0.17	0.20
4-8 years	6.0	7.0	7.9	8.5	9.6	11.7	14.2	15.7	16.7	› 18.4	0.13	0.14	0.14	0.15	0.16	0.19	0.22	0.25	0.31
9-13 years	11.0	8.1	9.1	9.9	11.1	13.7	16.9	18.9	20.5	23.0	0.12	0.13	0.14	0.16	0.22	0.30	0.40	0.49	0.63
14-18 years	16.0	7.6	8.8	9.6	11.0	14.2	18.1	20.5	22.3	25.3	0.15	0.18	0.20	0.24	0.31	0.41	0.49	0.55	0.70
19-30 years	24.5	››› 8.0	››› 9.3	››› 10.2	›› 11.8	15.2	19.4	22.1	24.2	27.7	0.16	0.16	0.17	0.18	0.21	0.29	0.35	0.41	0.56
31-50 years	25.0	››› 8.6	››› 10.1	››› 11.1	››› 12.8	››› 16.5	20.8	23.5	25.5	28.7	0.10	0.10	0.09	0.10	0.12	0.18	0.22	0.26	0.34
51-70 years	25.0	››› 8.4	››› 9.9	››› 11.0	››› 12.7	››› 16.4	››› 21.0	››› 23.9	››› 26.1	››› 29.6	0.11	0.12	0.12	0.13	0.16	0.22	0.26	0.30	0.37
71 + years	25.0	››› 7.7	››› 9.2	››› 10.2	››› 12.0	››› 15.9	››› 20.8	23.9	26.4	30.4	0.12	0.13	0.14	0.14	0.19	0.32	0.43	0.50	0.64

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

1 Recommended fiber intake (in gm) is equivalent to age in years plus five, up to a maximum of 25 gm.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-75—Distribution of usual dietary fiber intake in grams — Continued

Male

	Std[1] (g/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
2-3 years	7.0	6.1	6.9	7.5	8.4	10.2	12.4	13.7	14.6	16.2	0.12	0.12	0.12	0.13	0.15	0.19	0.22	0.25	0.30
4-8 years	6.0	7.9	8.9	9.6	10.6	12.7	15.1	16.5	17.4	19.0	0.16	0.17	0.17	0.18	0.18	0.20	0.23	0.25	0.29
9-13 years	11.0	9.0	10.0	10.8	12.1	14.7	18.0	20.1	21.7	24.4	0.17	0.18	0.18	0.18	0.22	0.39	0.58	0.69	0.83
14-18 years	16.0	9.6	10.9	11.9	13.4	16.7	20.5	22.9	24.6	27.4	0.27	0.29	0.30	0.32	0.38	0.48	0.55	0.61	0.70
19-30 years	24.5	9.4	10.9	12.1	14.0	18.2	23.5	26.9	29.4	33.7	0.19	0.21	0.22	0.23	0.28	0.36	0.40	0.46	0.64
31-50 years	25.0	10.1	11.7	12.9	14.8	18.9	23.8	26.8	29.1	32.7	0.12	0.13	0.13	0.14	0.19	0.27	0.35	0.41	0.52
51-70 years	25.0	8.6	10.4	11.7	13.7	18.1	23.5	26.8	29.3	33.2	0.17	0.18	0.19	0.20	0.23	0.33	0.41	0.47	0.56
71 + years	25.0	7.9	9.5	10.7	12.6	16.8	22.2	25.7	28.3	32.7	0.16	0.17	0.18	0.20	0.25	0.37	0.46	0.54	0.68
Persons currently receiving food stamps																			
2-3 years	7.0	5.5	6.4	7.0	8.1	10.3	13.0	14.6	15.8	17.7	0.23	0.25	0.26	0.29	0.37	0.54	0.67	0.77	0.97
4-8 years	6.0	9.3	10.1	10.7	11.7	13.7	15.9	17.2	18.2	19.7	0.27	0.30	0.32	0.36	0.43	0.50	0.54	0.57	0.62
9-13 years	11.0	10.2	11.1	11.7	12.7	14.9	17.5	19.1	20.2	22.0	0.34	0.35	0.36	0.39	0.47	0.58	0.64	0.67	0.72
14-18 years	16.0	7.8	9.0	9.9	11.2	14.2	18.0	20.4	22.3	25.5	0.49	0.50	0.50	0.52	0.64	0.85	1.00	1.12	1.33
19-30 years	24.5	10.1	11.8	13.1	15.2	19.7	25.0	28.1	30.5	34.4	0.75	0.77	0.79	0.83	0.88	0.96	1.03	1.11	1.28
31-50 years	25.0	6.3	8.0	9.3	11.6	17.1	25.2	31.0	35.7	44.0	0.58	0.68	0.76	0.96	1.60	2.67	3.58	4.34	5.60
51-70 years	25.0	6.2	7.5	8.6	10.4	14.6	19.9	23.0	25.3	28.8	0.59	0.68	0.77	0.93	1.27	1.53	1.65	1.74	1.92
71 + years	25.0	6.5	7.8	8.9	10.8	15.0	21.0	25.3	28.5	33.8	0.45	0.59	0.74	1.05	1.81	3.02	3.86	4.45	5.24
Income-eligible, food stamp nonparticipants																			
2-3 years	7.0	5.8	6.7	7.3	8.2	10.4	12.9	14.4	15.5	17.2	0.26	0.27	0.28	0.32	0.40	0.46	0.53	0.60	0.76
4-8 years	6.0	8.5	9.5	10.2	11.3	13.2	15.5	16.9	18.0	19.8	0.33	0.35	0.36	0.36	0.35	0.43	0.51	0.57	0.68
9-13 years	11.0	› 8.7	9.8	10.5	11.6	13.9	16.6	18.4	19.8	21.9	0.39	0.38	0.38	0.40	0.47	0.59	0.66	0.71	0.79
14-18 years	16.0	7.8	9.2	10.3	12.1	15.7	20.3	23.1	25.3	28.8	0.44	0.47	0.49	0.52	0.71	1.08	1.32	1.50	1.76
19-30 years	24.5	8.1	10.0	11.4	13.6	18.8	26.0	30.4	33.6	38.5	0.44	0.46	0.47	0.50	0.66	0.96	1.15	1.28	1.51
31-50 years	25.0	›› 8.8	› 10.6	11.9	14.0	18.6	24.1	27.5	30.0	34.0	0.50	0.52	0.55	0.60	0.73	0.90	1.01	1.08	1.18
51-70 years	25.0	6.6	8.3	9.5	11.5	15.5	20.4	23.8	26.5	31.1	0.36	0.40	0.44	0.49	0.52	0.81	1.14	1.44	2.04
71 + years	25.0	6.2	7.7	8.8	10.6	14.4	18.6	21.4	23.5	27.2	0.36	0.36	0.36	0.37	0.42	0.61	0.78	0.91	1.08
Higher-income, food stamp nonparticipants																			
2-3 years	7.0	››› 6.8	›› 7.5	› 8.0	8.8	10.3	12.0	13.1	13.8	15.1	0.18	0.18	0.18	0.18	0.20	0.23	0.25	0.27	0.31
4-8 years	6.0	››› 7.8	›› 8.7	›› 9.4	› 10.4	12.6	14.9	16.2	17.2	18.6	0.21	0.22	0.23	0.24	0.26	0.28	0.30	0.33	0.39
9-13 years	11.0	›› 8.8	› 9.9	10.7	12.1	15.0	18.6	21.0	22.9	›› 26.0	0.22	0.23	0.24	0.25	0.30	0.49	0.65	0.76	1.00
14-18 years	16.0	›› 9.9	›› 11.2	›› 12.2	›› 13.7	›› 17.1	› 20.9	23.2	24.8	27.5	0.33	0.37	0.39	0.41	0.46	0.56	0.64	0.71	0.81
19-30 years	24.5	9.8	11.3	12.3	14.1	18.0	22.9	25.9	28.1	31.8	0.25	0.28	0.29	0.31	0.35	0.43	0.52	0.63	0.95
31-50 years	25.0	››› 10.6	››› 12.2	››› 13.4	›› 15.2	19.1	23.7	26.5	28.6	31.8	0.15	0.15	0.16	0.17	0.20	0.28	0.35	0.41	0.52
51-70 years	25.0	››› 9.5	››› 11.2	››› 12.4	››› 14.4	› 18.7	23.9	27.1	29.4	33.1	0.17	0.18	0.18	0.20	0.25	0.36	0.44	0.50	0.58
71 + years	25.0	››› 8.5	›› 10.2	› 11.4	13.3	17.5	22.8	26.2	28.8	33.2	0.20	0.22	0.23	0.25	0.34	0.53	0.66	0.77	0.92

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.
[1] Recommended fiber intake (in gm) is equivalent to age in years plus five, up to a maximum of 25 gm.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-75—Distribution of usual dietary fiber intake in grams — Continued

Female

	Std[1] (g/dy)	Percentiles									Standard errors of percentiles								
		5th	10th	15th	25th	50th	75th	85th	90th	95th	5th	10th	15th	25th	50th	75th	85th	90th	95th
Total persons																			
2-3 years	7.0	5.1	5.9	6.4	7.3	9.2	11.5	12.8	13.8	15.4	0.12	0.12	0.12	0.13	0.18	0.24	0.28	0.32	0.38
4-8 years	6.0	6.6	7.4	8.1	9.1	11.2	13.8	15.4	16.6	18.5	0.11	0.12	0.13	0.14	0.16	0.21	0.25	0.28	0.34
9-13 years	11.0	7.5	8.4	9.1	10.2	12.7	15.7	17.5	18.8	20.9	0.15	0.16	0.17	0.19	0.25	0.32	0.37	0.40	0.46
14-18 years	16.0	7.4	8.3	9.0	10.1	12.4	15.3	17.0	18.4	20.5	0.18	0.19	0.21	0.23	0.29	0.37	0.44	0.50	0.64
19-30 years	24.5	7.0	8.1	8.9	10.1	12.8	15.9	17.9	19.4	21.8	0.11	0.11	0.12	0.12	0.14	0.19	0.24	0.27	0.34
31-50 years	25.0	7.1	8.4	9.3	10.7	13.7	17.3	19.5	21.0	23.6	0.14	0.14	0.14	0.13	0.14	0.17	0.20	0.22	0.26
51-70 years	25.0	7.5	8.7	9.6	11.1	14.1	17.8	20.1	21.8	24.5	0.13	0.13	0.13	0.12	0.14	0.18	0.22	0.27	0.36
71 + years	25.0	6.9	8.2	9.2	10.7	14.0	18.0	20.6	22.4	25.5	0.10	0.10	0.10	0.11	0.15	0.22	0.28	0.32	0.40
Persons currently receiving food stamps																			
2-3 years	7.0	5.2	6.1	6.7	7.7	9.8	12.3	13.8	14.9	16.6	0.32	0.33	0.34	0.38	0.49	0.66	0.78	0.87	1.03
4-8 years	6.0	5.8	6.9	7.7	8.9	11.6	14.8	16.8	18.3	20.9	0.25	0.25	0.25	0.28	0.33	0.44	0.56	0.65	0.77
9-13 years	11.0	7.7	8.8	9.6	10.9	13.6	17.0	19.2	20.8	23.3	0.22	0.29	0.35	0.44	0.61	0.85	1.02	1.15	1.34
14-18 years	16.0	6.5	7.7	8.6	10.2	13.4	17.3	19.7	21.3	23.8	0.38	0.42	0.44	0.48	0.58	0.74	0.82	0.85	0.88
19-30 years	24.5	6.1	7.3	8.1	9.5	12.4	16.0	18.4	20.2	23.2	0.22	0.23	0.24	0.26	0.36	0.52	0.61	0.68	0.80
31-50 years	25.0	5.4	6.5	7.3	8.7	11.6	15.4	17.8	19.7	22.8	0.20	0.22	0.24	0.27	0.37	0.45	0.53	0.60	0.77
51-70 years	25.0	5.8	6.8	7.6	8.8	11.5	14.8	16.8	18.3	20.7	0.27	0.28	0.29	0.32	0.42	0.54	0.62	0.67	0.78
71 + years	25.0	4.1	5.2	6.0	7.4	10.6	14.6	17.2	19.1	22.1	0.32	0.36	0.38	0.41	0.47	0.54	0.66	0.81	1.18
Income-eligible, food stamp nonparticipants																			
2-3 years	7.0	4.5	5.4	6.0	7.1	9.3	11.9	13.4	14.5	16.2	0.28	0.27	0.26	0.27	0.30	0.33	0.36	0.38	0.45
4-8 years	6.0	›››8.7	›››9.4	›››9.9	›››10.8	12.5	14.6	15.8	16.7	18.1	0.26	0.29	0.32	0.36	0.44	0.54	0.59	0.62	0.66
9-13 years	11.0	7.0	8.1	8.8	10.1	12.8	16.1	18.2	19.8	22.5	0.36	0.38	0.40	0.44	0.53	0.68	0.81	0.91	1.10
14-18 years	16.0	›››10.3	›› 11.0	› 11.5	12.2	13.7	15.4	16.4	17.0	›› 18.1	0.85	0.90	0.93	0.99	1.10	1.23	1.30	1.35	1.43
19-30 years	24.5	6.8	8.0	8.8	10.2	13.3	17.0	19.3	20.9	23.5	0.25	0.30	0.33	0.40	0.54	0.67	0.72	0.75	0.78
31-50 years	25.0	5.4	6.6	7.6	9.1	12.6	16.9	19.8	22.0	25.5	0.31	0.34	0.36	0.38	0.47	0.66	0.81	0.92	1.11
51-70 years	25.0	6.8	8.0	8.9	› 10.4	› 13.3	16.7	18.8	20.3	22.7	0.37	0.40	0.42	0.46	0.49	0.55	0.62	0.69	0.81
71 + years	25.0	›››7.1	›››8.2	›››8.9	›››10.1	›› 12.7	15.7	17.5	18.8	20.9	0.18	0.20	0.21	0.25	0.32	0.39	0.45	0.50	0.61
Higher-income, food stamp nonparticipants																			
2-3 years	7.0	5.4	6.1	6.6	7.4	9.0	11.0	12.3	13.1	14.5	0.15	0.15	0.15	0.16	0.20	0.24	0.25	0.26	0.30
4-8 years	6.0	6.3	7.1	7.7	8.7	10.7	› 13.2	› 14.8	› 15.9	›› 17.7	0.14	0.15	0.15	0.16	0.20	0.28	0.36	0.42	0.56
9-13 years	11.0	7.7	8.6	9.3	10.3	12.5	15.1	16.6	17.7	19.4	0.18	0.20	0.22	0.24	0.29	0.35	0.38	0.41	0.46
14-18 years	16.0	6.9	7.8	8.4	9.4	11.7	› 14.6	› 16.5	› 18.0	20.4	0.18	0.20	0.22	0.26	0.35	0.48	0.60	0.71	0.98
19-30 years	24.5	›››7.2	›› 8.3	› 9.0	10.2	12.7	15.6	17.4	18.8	20.9	0.16	0.16	0.17	0.17	0.19	0.24	0.29	0.34	0.43
31-50 years	25.0	›››7.7	›››9.0	›››9.9	›››11.3	›››14.2	›››17.6	› 19.5	21.0	23.3	0.14	0.14	0.13	0.13	0.14	0.18	0.22	0.24	0.28
51-70 years	25.0	›››8.0	›››9.2	›››10.1	›››11.5	›››14.5	›››18.1	›››20.3	›››22.0	›››24.7	0.15	0.15	0.14	0.14	0.16	0.22	0.29	0.35	0.48
71 + years	25.0	›››7.2	›››8.5	›››9.5	›››11.1	›››14.7	›››19.1	›››21.9	›››23.9	›››27.2	0.14	0.14	0.14	0.15	0.18	0.26	0.34	0.42	0.58

Notes: Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
The Bonferroni adjustment was used to adjust levels of significant and control for multiplicity in the number of tests.

1 Recommended fiber intake (in gm) is equivalent to age in years plus five, up to a maximum of 25 gm.

Source: NHANES-III, 1988-94 Exam file, 24-hour dietary recall. Data reflect nutrient intake from foods. Does not include the contribution of vitamin and mineral supplements. Usual intake was estimated using *C-SIDE: Software for Intake Distribution Estimation,* accounting for within-person variance as estimated from the *Continuing Survey of Food Intakes by Individuals (CSFII).*
'Total Persons' includes persons with missing FSP participation or income.

Table D-76—Mean Body Mass Index: Age 2-19 years old

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean BMI	Std Error	Sample size	Mean BMI	Std Error	Sample size	Mean BMI	Std Error	Sample size	Mean BMI	Std Error
Both sexes												
2 years	1,224	16.4	0.06	400	16.4	0.09	229	16.7	0.18	524	16.4	0.08
3-5 years	3,214	16.0	0.08	1,028	16.3	0.29	681	16.1	0.10	1,344	15.8	0.05
6-11 years	3,256	17.8	0.14	958	17.8	0.24	670	17.8	0.18	1,437	17.7	0.19
12-19 years	3,033	22.2	0.18	726	23.0	0.36	682	23.0	0.45	1,388	›››21.8	0.21
Total, age adjusted	10,727	19.4	0.10	3,112	19.8	0.20	2,262	19.8	0.20	4,693	›› 19.2	0.12
Male												
2 years	627	16.4	0.07	222	16.4	0.10	106	16.8	0.27	266	16.4	0.10
3-5 years	1,556	15.9	0.07	497	16.2	0.24	326	16.1	0.10	651	15.8	0.06
6-11 years	1,646	17.7	0.15	466	17.9	0.26	332	17.7	0.19	751	17.6	0.22
12-19 years	1,493	22.1	0.24	351	22.2	0.44	354	23.0	0.71	659	21.9	0.30
Total, age adjusted	5,322	19.3	0.11	1,536	19.4	0.24	1,118	19.8	0.30	2,327	19.1	0.15
Female												
2 years	597	16.4	0.08	178	16.4	0.17	123	16.6	0.20	258	16.3	0.11
3-5 years	1,658	16.0	0.11	531	16.5	0.36	355	16.1	0.14	693	15.7	0.09
6-11 years	1,610	17.9	0.19	492	17.6	0.34	338	18.0	0.26	686	17.9	0.28
12-19 years	1,540	22.3	0.21	375	23.7	0.45	328	22.9	0.47	729	›››21.8	0.21
Total, age adjusted	5,405	19.5	0.13	1,576	20.1	0.25	1,144	19.8	0.24	2,366	›››19.2	0.15

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-77—Percent overweight and at risk of overweight: Age 2-19 years old

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error
	Percent of children overweight[1]											
Both sexes												
2 years	1,224	5.2	0.85	400	6.2 *	1.74	229	9.4	2.52	524	3.8 *	1.23
3-5 years	3,214	8.0	0.92	1,028	11.3	2.54	681	7.8	1.20	1,344	6.6	1.15
6-11 years	3,256	11.4	1.02	958	11.6	1.67	670	10.2	2.08	1,437	11.4	1.33
12-19 years	3,031	10.4	0.93	726	14.2	2.40	682	15.8	2.59	1,387	› 8.1	1.05
Total, age adjusted	10,725	10.1	0.55	3,112	12.4	1.43	2,262	12.2	1.28	4,692	› 8.8	0.71
Male												
2 years	627	5.1	1.33	222	3.8 *	1.65	106	11.8 *	4.53	266	4.4 *	1.88
3-5 years	1,556	6.5	1.11	497	6.7	1.62	326	5.3 *	1.04	651	6.3	1.64
6-11 years	1,646	11.8	1.44	466	12.3	2.28	332	10.6	2.97	751	11.3	2.01
12-19 years	1,492	11.2	1.38	351	15.6	4.69	354	18.1	4.50	659	8.8	1.33
Total, age adjusted	5,321	10.3	0.73	1,536	12.4	2.31	1,118	13.2	2.21	2,327	9.0	0.88
Female												
2 years	597	5.3	1.08	178	9.2 *	3.55	123	7.6 *	2.86	258	3.2 *	1.13
3-5 years	1,658	9.5	1.23	531	15.6	3.88	355	10.5	2.02	693	› 6.8	1.47
6-11 years	1,610	11.1	1.39	492	10.8	2.21	338	9.8	2.50	686	11.5	2.12
12-19 years	1,539	9.5	1.04	375	12.9	2.37	328	13.3	3.17	728	› 7.4	1.19
Total, age adjusted	5,404	9.8	0.79	1,576	12.4	1.37	1,144	11.4	1.85	2,365	› 8.5	1.12
	Percent of children at risk of overweight[2]											
Both sexes												
2 years	1,224	11.1	1.13	400	8.2 *	1.48	229	15.2	3.68	524	11.2	1.62
3-5 years	3,214	10.7	0.76	1,028	10.5	1.85	681	12.2	2.19	1,344	10.0	0.78
6-11 years	3,256	13.5	1.03	958	14.7	2.67	670	14.1	1.96	1,437	13.0	1.29
12-19 years	3,031	13.6	1.11	726	17.6	2.79	682	17.2	2.67	1,387	12.2	1.51
Total, age adjusted	10,725	13.0	0.76	3,112	15.0	1.82	2,262	15.3	1.53	4,692	12.0	0.85
Male												
2 years	627	10.2	1.63	222	9.8 *	1.87	106	15.7 *	5.73	266	9.0	2.20
3-5 years	1,556	10.7	1.09	497	10.9	2.22	326	12.0	3.13	651	9.8	1.38
6-11 years	1,646	13.8	1.56	466	17.2	3.90	332	13.4	3.54	751	13.0	1.53
12-19 years	1,492	12.8	1.41	351	12.6	2.98	354	17.2	3.17	659	12.2	1.99
Total, age adjusted	5,321	12.6	0.88	1,536	13.8	1.68	1,118	15.0	2.31	2,327	11.9	1.11
Female												
2 years	597	12.1	2.09	178	6.2 *	2.46	123	14.8 *	4.82	258	13.5	3.09
3-5 years	1,658	10.7	1.15	531	10.2	2.31	355	12.4	3.10	693	10.1	1.07
6-11 years	1,610	13.3	1.50	492	12.4	2.62	338	14.8	3.22	686	13.1	2.05
12-19 years	1,539	14.5	1.59	375	22.2	4.95	328	17.3	3.81	728	› 12.1	1.95
Total, age adjusted	5,404	13.3	1.00	1,576	16.1	2.61	1,144	15.6	1.99	2,365	12.2	1.22

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Overweight is defined by BMI ≥ 95th percentile of the BMI-for-age growth chart, as determined by age at measurement.
2 Risk of overweight is defined by BMI between the 85th and 95th percentile of the BMI-for-age growth chart, as determined by age at measurement.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-78—Percent underweight and percent growth retarded: Age 2-19 years old

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error
Percent underweight[1]												
Both sexes												
2 years	1,224	3.6	0.54	400	4.6	1.15	229	2.9 *	1.27	524	3.4	0.94
3-5 years	3,214	4.5	0.55	1,028	3.7	0.98	681	3.2 *	1.09	1,344	5.2	0.89
6-11 years	3,256	3.9	0.55	958	3.5	0.86	670	2.0 *	0.85	1,437	4.4	0.76
12-19 years	3,031	4.0	0.61	726	2.5	0.47	682	6.0	2.08	1,387	4.1	0.78
Total, age adjusted	10,725	4.0	0.35	3,112	3.2	0.39	2,262	4.0	1.12	4,692	› 4.3	0.45
Male												
2 years	627	3.9	0.76	222	6.1	1.52	106	4.9 *	2.68	266	2.8 *	1.13
3-5 years	1,556	5.3	0.74	497	3.0	0.94	326	4.1 *	1.67	651	› 6.5	1.05
6-11 years	1,646	3.5	0.83	466	2.2 *	0.66	332	1.9 *	1.07	751	4.2	1.22
12-19 years	1,492	4.3	0.76	351	2.6 *	0.69	354	4.7 *	2.04	659	4.8	1.04
Total, age adjusted	5,321	4.2	0.47	1,536	2.7	0.47	1,118	3.6	1.11	2,327	›› 4.8	0.63
Female												
2 years	597	3.3	0.91	178	2.7 *	1.74	123	1.4 *	0.67	258	4.1 *	1.38
3-5 years	1,658	3.7	0.69	531	4.4	1.68	355	2.1 *	0.94	693	3.9	1.17
6-11 years	1,610	4.3	0.83	492	4.7	1.49	338	› 2.0 *	1.28	686	4.7	1.10
12-19 years	1,539	3.8	0.84	375	2.5 *	0.66	328	7.3 *	3.48	728	3.3	0.96
Total, age adjusted	5,404	3.9	0.48	1,576	3.6	0.60	1,144	4.4	1.65	2,365	3.9	0.62
Percent growth retarded[2]												
Both sexes												
2 years	1,229	4.9	0.69	401	6.9	1.80	230	5.6 *	1.79	526	4.1	0.96
3-5 years	3,232	4.0	0.75	1,032	7.9 *	2.42	689	5.6	1.67	1,347	› 1.9	0.45
6-11 years	3,276	3.8	0.63	966	4.1	1.05	679	2.9 *	1.02	1,437	3.8	0.85
12-19 years	3,071	4.1	0.54	739	7.0	1.18	691	5.5	1.32	1,403	›› 2.6	0.69
Total, age adjusted	10,808	4.0	0.32	3,138	6.1	0.87	2,289	4.6	0.76	4,713	›› 3.0	0.37
Male												
2 years	628	5.1	0.94	222	8.4 *	2.87	106	7.7 *	2.97	266	3.6 *	1.31
3-5 years	1,563	4.0	1.11	498	8.9 *	4.14	330	5.7 *	2.72	653	2.1 *	0.77
6-11 years	1,657	3.7	0.88	470	3.6	1.07	337	2.5 *	1.02	751	3.8	1.14
12-19 years	1,507	4.4	0.76	356	6.3	1.47	358	5.3	1.49	664	› 3.0 *	0.99
Total, age adjusted	5,355	4.1	0.50	1,546	5.9	1.11	1,131	4.6	0.91	2,334	›› 3.2	0.53
Female												
2 years	601	4.7	1.00	179	5.0 *	1.63	124	4.0 *	1.99	260	4.7 *	1.56
3-5 years	1,669	4.0	0.84	534	7.0 *	2.36	359	5.6	1.25	694	› 1.7 *	0.60
6-11 years	1,619	3.9	0.75	496	4.4 *	1.58	342	3.2 *	1.31	686	3.8	1.06
12-19 years	1,564	3.8	0.65	383	7.6	1.95	333	5.7 *	2.19	739	› 2.2 *	0.85
Total, age adjusted	5,453	3.9	0.41	1,592	6.3	1.17	1,158	4.7	1.06	2,379	›› 2.8	0.52

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Underweight is defined by BMI < 5th percentile of the BMI-for-age growth chart, as determined by age at measurement.
2 Growth retardation is identified as < 5th percentile of the CDC height-for-age growth chart.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-79—Mean Body Mass Index: Age 20 and over[1]

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
20-29 years	3,158	24.7	0.15	532	25.5	0.49	744	24.9	0.41	1,640	24.6	0.18
30-39 years	3,162	26.4	0.21	515	28.1	0.67	562	27.0	0.42	1,897	›› 26.2	0.23
40-49 years	2,571	27.1	0.22	352	30.0	0.61	390	›› 27.7	0.43	1,652	››› 26.8	0.24
50-59 years	1,864	28.1	0.18	207	29.8	0.73	258	› 28.3	0.44	1,254	› 28.0	0.21
60-69 years	2,353	27.5	0.15	275	29.4	0.61	453	›› 27.2	0.46	1,403	›› 27.4	0.22
70-79 years	1,855	26.8	0.16	169	28.7	0.77	388	27.2	0.32	1,115	› 26.7	0.20
80 + years	1,476	25.1	0.14	129	25.1	0.53	363	25.2	0.30	778	25.3	0.23
Total, age adjusted	16,439	26.6	0.10	2,179	28.3	0.28	3,158	››› 26.9	0.17	9,739	››› 26.4	0.12
Male												
20-29 years	1,639	25.2	0.16	213	24.7	0.41	406	25.4	0.60	876	25.3	0.20
30-39 years	1,470	26.5	0.23	176	25.9	0.60	261	26.0	0.41	945	26.7	0.29
40-49 years	1,222	27.3	0.21	130	28.5	0.96	202	26.9	0.41	806	27.3	0.21
50-59 years	858	27.8	0.18	77	28.0 *	0.83	118	27.0	0.72	601	28.0	0.21
60-69 years	1,179	27.4	0.20	115	26.5	0.68	221	27.1	0.60	742	27.5	0.23
70-79 years	870	26.6	0.23	76	27.7 *	1.47	163	26.8	0.62	558	26.6	0.23
80 + years	695	25.0	0.19	53	23.5 *	0.68	142	› 25.3	0.47	419	› 25.1	0.21
Total, age adjusted	7,933	26.7	0.10	840	26.6	0.31	1,513	26.4	0.17	4,947	26.7	0.13
Female												
20-29 years	1,519	24.2	0.22	319	26.0	0.78	338	› 24.4	0.38	764	›› 23.8	0.28
30-39 years	1,692	26.3	0.32	339	29.6	0.95	301	27.8	0.64	952	››› 25.7	0.36
40-49 years	1,349	27.0	0.34	222	30.9	0.84	188	› 28.6	0.78	846	››› 26.4	0.34
50-59 years	1,006	28.4	0.28	130	30.8	0.96	140	29.5	0.46	653	›› 28.0	0.32
60-69 years	1,174	27.6	0.20	160	30.4	0.72	232	›› 27.3	0.70	661	››› 27.2	0.29
70-79 years	985	27.0	0.24	93	29.3	0.95	225	27.5	0.40	557	› 26.7	0.35
80 + years	781	25.2	0.18	76	25.6 *	0.68	221	25.2	0.34	359	25.5	0.31
Total, age adjusted	8,506	26.5	0.14	1,339	29.3	0.41	1,645	››› 27.4	0.27	4,792	››› 26.1	0.16

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Body Mass Index (BMI) = [Weight in kilograms] / [Height in meters]^2.
For children and adolescents, see BMI-for-age tables.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-80—Percent healthy weight: Age 20 and over[1]

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	3,158	57.8	1.47	532	52.2	4.56	744	52.4	3.75	1,640	59.5	1.63
30-39 years	3,162	44.7	1.60	515	41.0	5.88	562	43.1	3.81	1,897	45.3	1.74
40-49 years	2,571	39.3	1.98	352	25.3	4.26	390	33.2	4.68	1,652	›› 41.2	2.21
50-59 years	1,864	30.0	1.60	207	26.1	6.11	258	35.8	4.95	1,254	29.7	1.77
60-69 years	2,353	31.2	1.59	275	25.9	3.53	453	29.3	3.94	1,403	32.0	1.84
70-79 years	1,855	38.0	1.49	169	24.0	4.33	388	33.0	3.37	1,115	››› 39.7	1.67
80 + years	1,476	43.8	1.60	129	37.5	6.44	363	43.8	3.30	778	42.5	1.58
Total, age adjusted	16,439	41.7	0.82	2,179	34.3	1.83	3,158	›› 39.4	1.39	9,739	››› 42.7	0.91
Male												
20-29 years	1,639	54.7	2.23	213	60.4	6.92	406	53.4	5.21	876	53.9	2.64
30-39 years	1,470	41.2	1.83	176	54.3	8.59	261	48.6	5.86	945	39.6	2.09
40-49 years	1,222	33.8	2.41	130	41.7	7.65	202	35.5	6.02	806	33.3	2.69
50-59 years	858	26.6	2.28	77	30.2 *	7.39	118	41.2	8.44	601	24.2	2.43
60-69 years	1,179	28.5	1.87	115	31.0	5.23	221	33.7	6.40	742	27.8	2.27
70-79 years	870	35.7	2.38	76	33.8 *	8.34	163	35.0	4.69	558	35.5	2.84
80 + years	695	44.5	2.19	53	41.8 *	7.31	142	47.9	5.28	419	43.2	2.21
Total, age adjusted	7,933	38.2	0.97	840	44.3	3.00	1,513	42.8	2.05	4,947	› 37.1	1.06
Female												
20-29 years	1,519	61.3	1.86	319	47.2	5.14	338	51.3	4.99	764	››› 66.4	2.20
30-39 years	1,692	48.4	2.30	339	32.3	5.78	301	38.6	5.31	952	››› 51.9	2.69
40-49 years	1,349	44.6	2.56	222	15.4	4.01	188	30.8	6.32	846	››› 49.0	2.79
50-59 years	1,006	33.1	1.93	130	23.8	6.34	140	30.7	5.25	653	35.0	2.30
60-69 years	1,174	33.5	2.13	160	24.1	4.88	232	25.8	5.03	661	› 36.0	2.50
70-79 years	985	39.7	1.91	93	18.1 *	5.21	225	› 32.2	4.50	557	››› 43.4	2.05
80 + years	781	43.4	1.98	76	35.9 *	7.58	221	42.3	4.18	359	42.0	2.20
Total, age adjusted	8,506	45.1	1.04	1,339	28.3	1.99	1,645	›› 36.4	2.44	4,792	››› 48.5	1.11

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Healthy weight for adults is defined by BMI greater than or equal to 18.5 and less than 25.
For children and adolescents, see BMI-for-age tables.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-81—Percent obese: Age 20 and over[1]

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	3,158	13.4	0.91	532	19.3	2.91	744	14.7	2.84	1,640	› 12.5	1.09
30-39 years	3,162	21.4	1.18	515	33.6	3.89	562	›› 22.6	3.08	1,897	››› 20.3	1.30
40-49 years	2,571	24.8	1.33	352	48.8	4.48	390	›› 31.2	3.90	1,652	››› 21.8	1.47
50-59 years	1,864	32.3	1.59	207	47.6	4.82	258	›› 35.7	4.41	1,254	›› 30.6	1.93
60-69 years	2,353	27.6	1.24	275	39.5	4.16	453	› 27.9	2.93	1,403	›› 26.8	1.62
70-79 years	1,855	22.9	1.28	169	35.5	5.31	388	28.3	3.33	1,115	›› 20.9	1.57
80 + years	1,476	12.6	1.05	129	13.9 *	3.57	363	13.1	2.06	778	13.1	1.61
Total, age adjusted	16,439	22.7	0.67	2,179	36.2	1.67	3,158	››› 25.6	1.53	9,739	››› 21.2	0.81
Male												
20-29 years	1,639	12.5	1.14	213	11.4	3.75	406	15.1	3.93	876	12.4	1.37
30-39 years	1,470	17.2	1.39	176	18.9	4.19	261	14.8	3.93	945	17.8	1.75
40-49 years	1,222	23.1	1.57	130	42.7	7.47	202	› 23.0	4.36	806	› 21.7	1.74
50-59 years	858	28.9	1.94	77	25.9	6.94	118	26.2	6.80	601	29.7	2.42
60-69 years	1,179	24.8	2.19	115	19.5	6.91	221	27.4	5.76	742	25.9	2.62
70-79 years	870	20.0	2.41	76	43.1	9.29	163	22.6	4.89	558	› 18.8	2.54
80 + years	695	8.0	1.17	53	2.8 *	1.72	142	› 9.7 *	2.76	419	› 8.7	1.31
Total, age adjusted	7,933	20.0	0.70	840	25.0	2.35	1,513	20.1	1.48	4,947	20.0	0.81
Female												
20-29 years	1,519	14.4	1.33	319	24.1	4.47	338	› 14.2	2.93	764	› 12.5	1.76
30-39 years	1,692	25.7	2.10	339	43.2	5.47	301	› 29.0	4.30	952	››› 23.2	2.18
40-49 years	1,349	26.5	1.99	222	52.4	5.37	188	39.8	6.19	846	››› 22.0	1.94
50-59 years	1,006	35.5	2.06	130	60.3	6.60	140	› 44.8	5.33	653	››› 31.4	2.43
60-69 years	1,174	29.8	1.53	160	46.5	4.94	232	›› 28.2	4.25	661	›› 27.6	1.99
70-79 years	985	25.0	1.51	93	31.0	5.94	225	30.9	3.91	557	22.8	2.27
80 + years	781	15.1	1.41	76	18.0 *	4.88	221	14.4	2.63	359	16.1	2.38
Total, age adjusted	8,506	25.2	0.93	1,339	42.4	2.55	1,645	››› 30.4	2.32	4,792	››› 22.3	1.09

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

[1] Obese is defined by BMI greater than or equal to 30.
For children and adolescents, see BMI-for-age tables.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-82—Percent overweight: Age 20 and over[1]

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	3,158	24.9	1.29	532	25.9	4.08	744	26.9	2.46	1,640	24.4	1.60
30-39 years	3,162	31.6	1.08	515	23.8	3.46	562	32.2	3.85	1,897	› 31.9	1.34
40-49 years	2,571	34.0	1.12	352	23.0	3.78	390	› 34.1	4.43	1,652	›› 35.0	1.39
50-59 years	1,864	36.3	1.70	207	25.0	5.44	258	27.5	4.68	1,254	› 38.2	2.20
60-69 years	2,353	39.3	1.49	275	32.2	4.17	453	37.4	3.50	1,403	39.8	1.57
70-79 years	1,855	37.2	1.26	169	36.2	4.87	388	34.6	3.80	1,115	38.0	1.55
80 + years	1,476	37.7	1.19	129	41.4	6.15	363	38.5	2.08	778	38.8	1.72
Total, age adjusted	16,439	33.1	0.59	2,179	26.9	1.50	3,158	›› 31.9	1.60	9,739	››› 33.8	0.72
Male												
20-29 years	1,639	30.6	2.08	213	27.8	6.47	406	29.1	3.80	876	31.6	2.65
30-39 years	1,470	40.9	1.82	176	26.6	7.54	261	34.5	5.38	945	› 42.2	2.07
40-49 years	1,222	42.4	1.77	130	15.6 *	4.65	202	›› 40.8	6.87	806	››› 44.1	2.35
50-59 years	858	44.1	2.58	77	41.9 *	10.37	118	31.2	8.78	601	45.8	3.11
60-69 years	1,179	45.4	2.28	115	45.6	7.79	221	36.4	5.84	742	45.3	2.62
70-79 years	870	43.1	2.44	76	17.1 *	5.55	163	›› 39.5	4.63	558	››› 44.8	3.22
80 + years	695	42.7	2.38	53	38.7 *	7.04	142	39.4	4.82	419	44.2	2.40
Total, age adjusted	7,933	40.5	0.79	840	28.6	3.05	1,513	35.2	2.15	4,947	››› 41.8	0.92
Female												
20-29 years	1,519	18.3	1.62	319	24.8	4.59	338	24.2	3.71	764	15.6	1.72
30-39 years	1,692	21.8	1.36	339	21.9	3.37	301	30.4	4.92	952	20.3	1.72
40-49 years	1,349	25.9	1.83	222	27.5	5.19	188	27.1	5.67	846	25.9	2.13
50-59 years	1,006	28.9	1.69	130	15.0 *	3.64	140	24.0	5.30	653	››› 30.8	2.36
60-69 years	1,174	34.2	1.80	160	27.5	5.26	232	38.1	5.40	661	34.6	1.97
70-79 years	985	32.8	1.42	93	47.5	6.35	225	› 32.3	4.86	557	› 32.1	1.47
80 + years	781	35.0	1.51	76	42.4 *	7.60	221	38.1	2.80	359	35.1	2.48
Total, age adjusted	8,506	25.9	0.75	1,339	26.2	2.01	1,645	28.9	2.40	4,792	25.4	0.92

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Overweight is defined by BMI greater than or equal to 25 and less than 30.
For children and adolescents, see BMI-for-age tables.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-83—Percent underweight: Age 20 and over[1]

	Total			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error
Both sexes												
20-29 years	3,158	4.0	0.52	532	2.6 *	0.99	744	6.0	1.89	1,640	3.7	0.60
30-39 years	3,162	2.4	0.49	515	1.6 *	0.77	562	2.1 *	0.86	1,897	2.4	0.60
40-49 years	2,571	1.9	0.46	352	2.9 *	1.74	390	1.5 *	0.88	1,652	2.0	0.57
50-59 years	1,864	1.5	0.33	207	1.3 *	0.71	258	1.0 *	0.51	1,254	1.6	0.41
60-69 years	2,353	1.9	0.37	275	2.4 *	1.17	453	5.5	2.36	1,403	1.5	0.35
70-79 years	1,855	1.9	0.44	169	4.4 *	2.67	388	4.1 *	1.58	1,115	1.4 *	0.44
80 + years	1,476	5.9	1.03	129	7.2 *	2.58	363	4.5 *	1.30	778	5.6	1.35
Total, age adjusted	16,439	2.5	0.19	2,179	2.6	0.52	3,158	3.1	0.53	9,739	2.4	0.23
Male												
20-29 years	1,639	2.2	0.55	213	0.4 *	0.26	406	2.5 *	1.30	876	› 2.1	0.63
30-39 years	1,470	0.6 *	0.22	176	0.2 *	0.19	261	2.1 *	1.12	945	0.5 *	0.24
40-49 years	1,222	0.8 *	0.47	130	0.0	0.00	202	0.6 *	0.42	806	0.8 *	0.56
50-59 years	858	0.4 *	0.17	77	2.0 *	1.50	118	1.4 *	0.87	601	0.3 *	0.18
60-69 years	1,179	1.2 *	0.42	115	3.8 *	2.00	221	2.5 *	1.66	742	1.0 *	0.46
70-79 years	870	1.2 *	0.42	76	6.0 *	5.17	163	3.0 *	1.58	558	0.9 *	0.44
80 + years	695	4.9	1.19	53	16.7 *	7.33	142	3.0 *	1.37	419	4.0	1.09
Total, age adjusted	7,933	1.2	0.18	840	2.1	0.77	1,513	1.9	0.40	4,947	1.1	0.18
Female												
20-29 years	1,519	6.0	0.89	319	3.9 *	1.56	338	10.3	3.38	764	5.6	1.00
30-39 years	1,692	4.2	0.98	339	2.6 *	1.25	301	2.0 *	1.27	952	4.6	1.25
40-49 years	1,349	3.0	0.73	222	4.7 *	2.76	188	2.3 *	1.73	846	3.1	0.92
50-59 years	1,006	2.4	0.61	130	0.9 *	0.62	140	0.5 *	0.55	653	2.9	0.77
60-69 years	1,174	2.5	0.59	160	1.9 *	1.43	232	7.8 *	3.48	661	1.9 *	0.54
70-79 years	985	2.4	0.70	93	3.4 *	2.81	225	4.6 *	2.15	557	1.8 *	0.71
80 + years	781	6.5	1.16	76	3.7 *	2.11	221	5.1 *	1.75	359	6.8	1.83
Total, age adjusted	8,506	3.8	0.32	1,339	3.1	0.71	1,645	4.3	0.91	4,792	3.8	0.39

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Underweight is defined by BMI less than 18.5.
For children and adolescents, see BMI-for-age tables.

Source: NHANES-III, 1988-94: Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-84—Mean weight gain since age 25: Age 26 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
26-29 years	1,271	6.0	0.9	208	7.4 *	3.5	233	6.2 *	2.2	747	6.0	0.9
30-39 years	3,225	16.4	0.7	508	22.1	2.4	524	18.5	1.6	2,003	› 15.5	0.9
40-49 years	2,595	23.4	0.7	326	41.2	2.8	367	›› 30.7	1.5	1,728	››› 21.4	0.8
50-59 years	1,921	28.1	1.2	196	35.6	3.9	236	› 25.0	3.6	1,335	27.9	1.3
60-69 years	2,336	25.6	0.9	243	31.9	3.2	407	28.0	2.0	1,471	› 24.9	1.0
70-79 years	1,897	21.7	0.8	152	30.1	2.4	364	››› 21.4	1.4	1,178	›› 21.4	0.9
80 + years	1,409	10.0	0.9	93	12.4	2.4	330	8.5	1.9	781	11.6	1.2
Total,age adjusted	14,654	20.5	0.4	1,726	29.2	1.1	2,461	››› 22.4	0.9	9,243	››› 19.7	0.5
Male												
26-29 years	646	6.9	1.3	82	8.0	2.2	127	8.9 *	3.1	396	6.6	1.4
30-39 years	1,528	15.0	0.7	178	15.9	3.7	247	16.9	1.9	1,018	14.8	0.9
40-49 years	1,248	21.1	1.2	123	35.9	5.4	193	23.1	2.7	853	›› 19.8	1.2
50-59 years	910	24.4	1.7	76	32.7	6.1	118	› 19.0	4.1	652	24.7	1.9
60-69 years	1,206	23.2	1.2	106	19.6	5.0	204	28.2	2.8	793	22.9	1.3
70-79 years	898	20.2	1.2	67	21.8 *	7.1	156	17.2	4.2	592	20.3	1.3
80 + years	676	8.5	1.3	40	11.5 *	5.1	133	5.1 *	2.7	422	9.8	1.3
Total,age adjusted	7,112	18.5	0.6	672	23.7	1.8	1,178	›› 18.8	1.0	4,726	›› 18.2	0.6
Female												
26-29 years	625	5.0	1.1	126	7.1 *	5.3	106	2.8 *	2.6	351	5.2	0.8
30-39 years	1,697	17.8	1.4	330	26.1	3.8	277	19.9	2.4	985	› 16.3	1.5
40-49 years	1,347	25.7	1.0	203	44.4	3.8	174	38.1	2.7	875	››› 23.0	1.1
50-59 years	1,011	31.7	1.3	120	37.6	4.1	118	31.3	5.4	683	31.2	1.4
60-69 years	1,130	27.7	1.1	137	37.0	3.4	203	› 27.8	2.6	678	›› 26.7	1.4
70-79 years	999	22.9	0.9	85	34.8	3.9	208	› 23.2	1.8	586	›› 22.4	1.0
80 + years	733	10.9	1.1	53	12.7 *	3.2	197	9.8	2.2	359	12.9	1.6
Total,age adjusted	7,542	22.3	0.7	1,054	32.3	1.8	1,283	›› 25.6	1.3	4,517	››› 21.2	0.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Respondents age 26 and over were asked to report their weight at age 25; this response was compared to current weight reported in the household interview.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-85—Distribution of weight gain since age 25: Age 26 and over[1]

Total persons

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25 lbs	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
26-29 years	1,271	2.7	3.9	3.8	49.9	13.1	17.6	6.5	2.1	0.8	0.7	0.6	2.8	1.6	1.7	1.4	0.7
30-39 years	3,225	1.8	3.7	3.5	26.5	13.3	27.1	17.2	6.7	0.3	0.4	0.5	1.6	0.9	1.4	1.2	0.6
40-49 years	2,595	1.8	2.5	2.2	15.1	10.6	29.0	26.8	11.9	0.4	0.4	0.5	1.0	0.8	1.6	1.2	0.9
50-59 years	1,921	2.8	2.8	2.2	13.0	6.8	23.6	29.4	19.4	0.6	0.6	0.5	1.2	0.8	1.5	1.4	1.6
60-69 years	2,336	2.5	4.1	3.2	13.2	7.2	23.3	32.1	14.2	0.4	0.5	0.5	0.9	0.9	1.2	1.4	1.3
70-79 years	1,897	3.5	5.1	3.6	16.7	6.5	24.2	27.9	12.3	0.5	0.6	0.6	1.2	0.8	1.3	1.2	0.9
80 + years	1,409	7.1	10.7	5.7	20.7	9.7	21.4	18.2	6.0	0.6	1.0	0.8	1.0	0.8	1.5	1.2	0.8
Total,age adjusted	14,654	2.6	3.8	3.1	20.6	10.0	25.2	23.5	11.1	0.2	0.2	0.2	0.6	0.4	0.7	0.6	0.5
Male																	
26-29 years	646	2.6	4.4	3.2	50.7	13.5	15.4	7.1	2.8	1.1	1.1	1.0	2.9	2.0	2.5	1.7	1.2
30-39 years	1,528	1.4	3.2	3.2	26.5	14.6	30.3	16.0	4.5	0.3	0.6	0.8	2.1	1.5	2.1	1.5	0.7
40-49 years	1,248	2.6	3.1	2.8	15.9	9.9	31.5	23.7	10.2	0.7	0.6	0.8	1.4	1.5	2.3	1.9	1.3
50-59 years	910	4.3	3.3	2.8	14.8	7.3	23.4	28.1	16.0	1.3	0.8	0.8	1.5	1.2	2.2	2.5	2.1
60-69 years	1,206	3.2	4.6	3.2	14.8	6.8	23.4	32.6	11.4	0.7	1.0	0.8	1.1	1.1	1.9	2.1	1.5
70-79 years	898	5.6	4.8	3.2	16.2	5.8	25.9	27.3	11.0	0.9	0.8	0.7	2.1	1.2	1.7	2.1	1.0
80 + years	676	10.3	10.2	5.4	21.2	8.0	20.5	18.3	5.6	1.4	1.2	1.1	1.3	1.2	1.9	1.7	0.9
Total,age adjusted	7,112	3.4	4.0	3.2	21.3	10.0	26.4	22.3	9.2	0.3	0.3	0.3	0.7	0.7	0.9	0.9	0.5
Female																	
26-29 years	625	2.9	3.4	4.5	49.0	12.7	20.2	5.8	1.2	1.1	0.8	1.0	4.3	2.4	2.7	1.7	0.6
30-39 years	1,697	2.1	4.2	3.8	26.5	11.8	23.8	18.5	9.1	0.4	0.7	0.9	2.2	1.2	1.2	1.6	1.1
40-49 years	1,347	1.0	1.9	1.5	14.3	11.4	26.6	29.8	13.5	0.4	0.6	0.4	1.5	1.1	1.9	1.5	1.3
50-59 years	1,011	1.3	2.3	1.6	11.2	6.4	23.8	30.7	22.6	0.4	0.6	0.4	1.3	1.0	1.9	1.9	2.0
60-69 years	1,130	1.9	3.6	3.2	11.9	7.4	23.2	31.7	16.7	0.6	0.6	0.6	1.3	1.5	1.7	1.8	1.7
70-79 years	999	2.0	5.4	3.8	17.1	6.9	22.9	28.3	13.4	0.5	1.0	0.8	1.4	0.9	1.8	1.6	1.3
80 + years	733	5.3	11.0	6.0	20.4	10.6	21.9	18.1	6.2	0.9	1.2	1.1	1.5	1.2	1.8	1.5	1.0
Total,age adjusted	7,542	1.9	3.6	3.0	19.9	9.8	23.9	24.7	13.0	0.3	0.3	0.3	0.8	0.5	0.8	0.7	0.8

See footnotes at end of table.

Table D-85—Distribution of weight gain since age 25: Age 26 and over[1] — Continued

Persons currently receiving food stamps

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25 lbs	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
26-29 years	208	2.6	2.1	5.1	39.8	9.1	25.5	15.3	0.5	1.8	0.9	1.6	7.7	2.8	4.3	5.0	0.4
30-39 years	508	3.0	6.1	6.4	17.2	10.3	18.1	22.6	16.0	1.1	3.0	2.6	2.9	2.6	2.1	3.2	2.8
40-49 years	326	1.8	1.4	1.4	8.3	2.0	16.3	32.0	36.8	1.0	0.4	0.4	2.2	1.0	4.0	3.5	4.6
50-59 years	196	3.8	4.3	3.6	8.4	4.2	15.5	30.9	29.4	1.6	1.8	1.9	2.6	1.7	4.1	4.9	4.4
60-69 years	243	3.1	6.9	2.0	8.1	4.4	17.1	36.1	22.2	1.8	2.7	0.9	2.2	1.8	3.2	5.3	3.5
70-79 years	152	6.1	3.0	3.1	12.2	2.8	14.0	31.1	26.2	2.1	2.0	1.7	3.6	1.0	3.7	5.4	3.2
80 + years	93	4.3	5.3	9.7	23.1	8.9	24.1	17.2	7.4	1.3	2.3	2.6	6.7	3.9	4.8	4.0	3.2
Total,age adjusted	1,726	3.2	4.1	4.0	14.2	5.7	17.6	27.8	23.3	0.5	0.9	0.7	1.0	0.8	1.3	1.7	1.6
Male																	
26-29 years	82	1.0	0.8	5.2	41.5	6.2	34.8	10.6	0.0	1.0	0.8	2.4	8.0	2.6	8.9	6.1	0.0
30-39 years	178	1.6	11.2	7.9	16.5	14.0	18.3	19.3	10.9	0.7	7.0	5.7	4.4	6.0	3.7	5.7	3.3
40-49 years	123	1.7	1.1	2.6	9.6	0.7	19.5	40.7	24.1	1.0	0.7	0.8	3.5	0.6	6.0	8.5	9.2
50-59 years	76	3.4	4.2	7.0	8.8	2.6	23.3	25.6	25.0	2.6	2.1	4.2	3.0	1.5	8.5	7.0	6.7
60-69 years	106	6.5	11.2	1.0	8.0	3.2	22.4	38.6	9.2	2.9	4.4	0.8	2.8	1.6	8.4	9.2	6.0
70-79 years	67	6.5	6.2	1.5	26.5	0.5	8.9	36.6	13.3	3.5	5.2	1.3	8.3	0.4	3.9	11.0	6.8
80 + years	40	7.1	13.3	5.5	15.2	0.0	31.3	18.1	9.4	3.9	7.2	3.9	7.8	0.0	8.6	7.3	4.7
Total,age adjusted	672	3.2	6.3	4.7	15.4	4.9	21.1	28.6	15.6	0.8	1.8	1.6	1.8	1.4	2.5	2.9	2.1
Female																	
26-29 years	126	3.5	2.8	5.1	38.7	10.9	19.8	18.2	0.9	2.8	1.4	1.7	10.2	4.5	6.4	7.8	0.6
30-39 years	330	3.9	2.8	5.4	17.6	7.9	18.0	24.8	19.3	1.7	1.1	2.5	4.0	1.7	2.9	3.9	4.5
40-49 years	203	2.0	1.6	0.7	7.5	2.8	14.4	26.8	44.3	1.4	0.7	0.5	3.2	1.5	4.2	6.0	7.2
50-59 years	120	4.0	4.3	1.2	8.1	5.2	10.2	34.5	32.4	1.7	2.7	0.8	3.9	3.0	4.1	6.1	6.1
60-69 years	137	1.8	5.2	2.4	8.2	4.9	14.9	35.1	27.6	1.6	2.9	1.3	2.8	2.4	3.6	7.0	4.0
70-79 years	85	5.9	1.3	4.0	4.4	4.1	16.8	28.1	33.3	3.0	1.0	2.4	2.8	1.6	5.6	5.1	5.1
80 + years	53	3.2	2.2	11.3	26.1	12.3	21.4	16.9	6.6	0.6	1.5	3.2	8.1	5.4	6.6	5.6	4.0
Total,age adjusted	1,054	3.3	2.9	3.3	13.4	6.0	15.6	27.5	27.7	0.6	0.7	0.7	1.2	1.1	1.6	2.5	2.8

See footnotes at end of table.

Table D-85—Distribution of weight gain since age 25: Age 26 and over[1] — Continued

Income-eligible, food stamp nonparticipants

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25 lbs	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
26-29 years	233	4.5	5.6	6.5	48.0	10.1	' 12.2	7.6	4.6	3.5	2.4	3.1	5.6	3.6	2.0	3.8	2.7
30-39 years	524	3.5	1.8	3.6	21.0	18.3	24.1	18.2	9.4	1.4	0.9	1.5	3.3	3.9	4.2	2.7	1.6
40-49 years	367	1.4	2.4	1.7	11.5	5.4	22.6	36.5	'' 18.3	0.9	1.2	1.5	2.3	2.3	3.8	4.6	2.9
50-59 years	236	4.6	1.2	2.9	18.3	5.4	19.4	28.8	19.4	1.7	0.9	1.5	4.9	2.3	4.5	3.7	3.8
60-69 years	407	2.9	6.7	3.7	10.5	3.0	22.7	33.0	17.6	1.0	2.0	1.4	2.7	1.5	3.4	4.7	2.8
70-79 years	364	4.2	7.4	2.6	17.4	5.9	21.3	27.8	'' 13.4	1.3	1.8	1.0	3.0	1.5	2.8	3.0	2.0
80 + years	330	' 9.2	11.8	5.3	19.1	8.2	18.6	22.9	4.0	1.5	1.8	1.4	2.3	1.9	2.2	3.1	1.1
Total,age adjusted	2,461	3.6	3.8	3.3	' 18.8	8.8	21.2	26.4	''' 13.9	0.6	0.5	0.5	1.3	0.9	1.5	1.6	1.1
Male																	
26-29 years	127	1.0	7.4	3.8	49.7	9.8	13.7	7.1	7.4	0.7	4.6	2.9	8.1	4.9	3.2	3.4	4.8
30-39 years	247	4.4	1.0	3.0	20.5	16.9	28.5	17.2	8.6	2.5	0.4	2.3	5.3	4.9	5.5	3.2	3.1
40-49 years	193	3.0	3.3	3.4	18.4	3.3	27.4	27.6	13.4	1.9	1.9	3.0	4.7	2.8	4.4	5.6	3.2
50-59 years	118	5.9	2.2	4.0	26.6	5.5	19.5	24.0	12.3	2.5	1.7	2.3	8.0	2.4	6.2	5.6	3.8
60-69 years	204	5.1	2.2	7.8	8.9	1.5	17.4	41.4	15.7	2.3	1.1	3.6	3.6	0.5	3.4	5.4	4.5
70-79 years	156	10.7	9.2	1.7	14.0	3.5	25.4	21.3	14.2	4.2	2.8	0.8	3.2	2.1	5.7	6.1	4.2
80 + years	133	13.5	12.5	5.1	24.9	5.6	14.5	18.3	5.4	2.6	3.0	2.4	3.9	2.3	3.6	4.0	2.1
Total,age adjusted	1,178	5.2	3.8	3.9	21.8	7.4	23.2	23.3	11.5	0.7	0.8	0.9	2.3	1.2	1.8	2.1	1.3
Female																	
26-29 years	106	8.9	3.4	10.0	45.9	10.4	10.4	8.3	1.1	7.9	1.8	6.0	7.0	5.1	2.4	4.7	0.8
30-39 years	277	2.8	2.5	4.2	21.5	19.4	20.4	19.1	10.1	1.7	1.5	2.0	4.1	5.4	4.5	3.6	2.1
40-49 years	174	0.0	1.6	0.1	4.9	7.5	17.9	45.1	23.0	0.0	1.5	0.1	1.9	2.4	4.4	6.4	5.0
50-59 years	118	3.3	0.0	1.8	9.4	5.3	19.3	34.0	26.9	2.4	0.0	1.8	3.4	2.9	5.5	7.0	6.6
60-69 years	203	1.2	9.9	0.7	11.6	4.1	26.4	26.9	18.9	0.9	3.3	0.4	3.6	2.5	5.6	5.5	3.3
70-79 years	208	1.6	6.6	3.0	' 18.8	6.9	19.6	30.4	'' 13.1	0.9	2.3	1.5	4.1	1.6	3.1	3.5	2.4
80 + years	197	7.5	'' 11.6	5.3	16.7	9.3	20.3	24.8	3.5	1.8	2.2	1.5	3.4	2.6	2.6	4.2	1.4
Total,age adjusted	1,283	2.6	3.6	2.8	15.8	9.9	19.4	29.3	'' 16.4	0.9	0.6	0.5	1.4	1.6	1.8	2.2	1.8

See footnotes at end of table.

Table D-85—Distribution of weight gain since age 25: Age 26 and over[1] — Continued

Higher-income, food stamp nonparticipants

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25 lbs	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
26-29 years	747	2.4	3.8	3.0	51.7	13.9	17.7	5.4	1.8	0.8	0.9	0.6	3.0	1.9	2.2	1.3	0.7
30-39 years	2,003	1.4	3.8	3.2	›› 28.4	12.3	››› 28.3	16.7	›› 5.5	0.4	0.6	0.6	1.9	1.0	1.6	1.4	0.7
40-49 years	1,728	2.0	2.5	2.3	› 16.1	››› 12.2	›› 29.9	25.2	››› 9.8	0.5	0.5	0.6	1.2	1.0	1.8	1.6	0.9
50-59 years	1,335	2.6	2.8	2.0	12.8	7.7	24.3	29.2	18.6	0.8	0.7	0.6	1.3	1.0	1.7	1.5	1.8
60-69 years	1,471	2.5	3.9	2.9	13.8	7.9	23.9	32.0	13.0	0.5	0.6	0.6	1.2	1.1	1.4	1.6	1.5
70-79 years	1,178	3.2	4.7	3.7	17.4	6.7	› 25.1	27.7	››› 11.4	0.5	0.6	0.8	1.4	1.1	1.8	1.6	1.0
80 + years	781	6.8	8.4	5.7	20.9	10.7	22.9	17.1	7.4	0.8	1.4	0.9	1.2	1.3	2.7	1.6	1.1
Total,age adjusted	9,243	2.4	3.6	2.9	››› 21.5	››› 10.5	››› 26.0	› 22.8	››› 10.0	0.2	0.3	0.3	0.6	0.4	0.7	0.6	0.6
Male																	
26-29 years	396	3.0	4.3	2.3	52.5	13.8	14.4	6.9	2.3	1.4	1.4	0.9	3.4	2.2	3.0	1.9	1.1
30-39 years	1,018	1.1	3.0	3.0	28.2	13.3	› 31.4	15.6	3.8	0.5	0.7	0.8	2.6	1.6	2.4	1.8	0.8
40-49 years	853	2.8	3.0	2.9	16.7	››› 11.5	31.8	21.4	9.5	0.8	0.7	1.0	1.7	1.7	2.7	2.1	1.3
50-59 years	652	4.3	3.1	2.4	13.9	› 8.2	23.2	28.6	16.1	1.6	0.9	0.9	1.6	1.4	2.4	2.7	2.5
60-69 years	793	2.9	4.8	2.7	15.7	7.3	23.6	32.0	11.0	0.8	1.2	0.7	1.4	1.2	2.2	2.4	1.5
70-79 years	592	5.0	4.5	3.6	16.2	›› 6.3	››› 25.9	28.0	10.3	1.0	0.8	0.9	2.4	1.5	2.0	2.3	1.2
80 + years	422	9.2	9.8	5.6	20.3	››› 8.3	21.6	19.1	5.7	1.6	1.5	1.2	1.5	1.6	2.5	2.2	0.9
Total,age adjusted	4,726	3.2	3.8	3.0	›› 22.0	››› 10.4	26.8	21.8	› 8.7	0.4	0.4	0.4	0.8	0.7	0.9	0.9	0.6
Female																	
26-29 years	351	1.8	3.2	3.8	50.6	13.9	21.9	3.6	1.2	0.8	1.0	1.2	4.7	2.9	3.2	1.2	0.8
30-39 years	985	1.7	4.8	3.4	28.5	11.1	24.8	18.0	› 7.5	0.4	0.9	1.0	2.6	1.3	1.8	2.0	1.0
40-49 years	875	1.1	2.0	1.6	15.4	››› 13.0	27.9	29.0	››› 10.0	0.5	0.6	0.5	2.0	1.3	2.3	2.1	1.2
50-59 years	683	0.8	2.4	1.5	11.7	7.2	›› 25.5	29.7	21.0	0.4	0.8	0.5	1.5	1.3	2.2	2.1	2.1
60-69 years	678	2.2	2.9	3.1	11.8	8.5	24.1	32.0	15.0	0.8	0.8	0.8	1.7	1.8	1.9	2.1	2.2
70-79 years	586	1.6	4.8	3.7	››› 18.5	7.0	24.4	27.4	››› 12.4	0.5	1.0	1.0	1.5	1.2	2.3	2.3	1.5
80 + years	359	5.0	7.4	5.8	21.3	12.4	23.9	15.5	8.6	1.2	1.8	1.3	1.7	1.6	3.6	1.9	1.5
Total,age adjusted	4,517	1.6	3.5	2.8	››› 21.0	›› 10.5	››› 25.2	23.8	››› 11.3	0.3	0.3	0.4	1.1	0.6	1.0	0.9	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

1 Respondents age 26 and over were asked to report their weight at age 25; this response was compared to current weight reported in the household interview.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-86—Mean weight gain over past 10 years: Age 36 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
36-39 years	1,232	15.4	1.2	190	21.4	3.2	181	15.5	2.4	783	14.8	1.5
40-49 years	2,624	12.5	0.6	338	23.4	3.2	374	18.1	1.7	1,735	›››11.0	0.6
50-59 years	1,941	9.0	0.9	202	10.8 *	4.1	247	7.6 *	2.5	1,331	8.6	0.9
60-69 years	2,424	4.2	0.5	264	4.4 *	2.8	441	5.6	1.7	1,487	4.0	0.7
70-79 years	1,985	-0.2	0.5	166	2.2 *	3.0	388	<0	1.4	1,218	-0.2	0.6
80 + years	1,582	-6.4	0.8	119	-10.2	2.5	372	-6.5	1.5	849	-5.6	1.0
Total,age adjusted	11,788	8.1	0.4	1,279	12.7	1.6	2,003	9.8	1.1	7,403	›› 7.5	0.4
Male												
36-39 years	558	13.2	2.0	69	16.4 *	4.6	87	12.8	2.6	369	13.3	2.5
40-49 years	1,267	9.8	1.1	129	15.9 *	5.3	196	13.1	2.7	861	8.8	1.0
50-59 years	916	5.7	1.2	77	12.4 *	4.5	121	3.3 *	2.9	651	5.6	1.4
60-69 years	1,232	1.7 *	0.8	111	0.4 *	3.4	215	1.9 *	2.8	799	1.6 *	0.9
70-79 years	939	-1.8	0.6	72	-0.1	4.8	170	-2.1	2.0	610	-1.8	0.7
80 + years	745	-8.0	0.8	48	-9.9 *	3.2	150	-9.0	1.8	453	-7.4	0.8
Total,age adjusted	5,657	5.6	0.6	506	9.3	2.2	939	5.9	1.4	3,743	5.2	0.6
Female												
36-39 years	674	17.4	1.7	121	24.2	4.8	94	17.8	3.2	414	16.3	1.7
40-49 years	1,357	15.1	0.9	209	28.2	3.5	178	23.1	2.3	874	›››13.4	0.8
50-59 years	1,025	12.1	1.2	125	9.7 *	5.7	126	12.0 *	4.5	680	11.7	1.2
60-69 years	1,192	6.4	0.8	153	6.1 *	3.4	226	8.4	2.1	688	6.3	1.1
70-79 years	1,046	0.9 *	0.8	94	3.4 *	4.9	218	0.9 *	1.7	608	1.2 *	1.0
80 + years	837	-5.5	1.0	71	-10.3 *	3.1	222	-5.4	1.7	396	-4.4	1.3
Total,age adjusted	6,131	10.4	0.5	773	14.8	1.9	1,064	13.2	1.6	3,660	› 9.7	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Respondents age 36 and over were asked to report their weight 10 years ago; this response was compared to current weight reported in the household interview.
<0 Negative value too near zero to display.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-87—Distribution of weight gain over past 10 years: Age 36 and over[1]

Total persons

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
36-39 years	1,232	3.3	4.1	2.7	25.2	12.6	27.3	17.3	6.9	1.0	0.8	0.6	1.8	1.8	1.7	1.2	1.2
40-49 years	2,624	3.2	4.2	3.2	29.5	15.8	23.2	16.2	4.3	0.6	0.6	0.6	1.4	1.1	1.2	1.0	0.5
50-59 years	1,941	5.1	5.8	3.2	34.0	13.8	20.6	13.4	3.8	0.7	0.8	0.5	1.6	1.1	1.0	1.2	0.6
60-69 years	2,424	5.9	8.8	6.1	37.4	12.6	18.8	7.8	2.1	0.6	0.8	0.6	1.6	1.0	0.9	0.8	0.4
70-79 years	1,985	8.3	12.9	6.8	38.9	10.1	14.5	6.0	1.0	0.8	0.9	0.7	1.6	0.7	1.0	0.8	0.3
80 + years	1,582	11.3	20.4	12.2	37.3	7.2	8.1	2.1	0.7	1.0	1.2	1.0	1.1	0.9	0.8	0.5	0.3
Total,age adjusted	11,788	5.2	7.3	4.6	32.7	13.2	20.4	12.3	3.6	0.4	0.3	0.3	1.0	0.5	0.5	0.6	0.3
Male																	
36-39 years	558	4.0	3.6	2.8	27.0	13.6	29.7	13.2	5.0	2.1	0.9	0.9	2.2	2.9	2.8	1.8	1.6
40-49 years	1,267	4.4	4.9	3.8	31.6	17.2	20.6	12.7	4.0	0.9	1.1	1.0	1.7	1.8	1.9	1.3	1.0
50-59 years	916	5.8	7.4	3.9	38.3	13.9	17.9	11.0	1.6	1.2	1.1	0.7	2.7	2.0	1.5	1.8	0.4
60-69 years	1,232	6.2	9.5	4.9	44.9	11.0	16.6	5.8	0.8	0.9	0.9	0.9	2.5	1.2	1.5	1.0	0.3
70-79 years	939	9.2	14.2	6.1	43.2	8.8	12.6	3.7	0.9	1.2	1.4	1.0	2.3	1.0	1.4	0.8	0.5
80 + years	745	13.2	20.4	12.3	40.0	5.2	5.8	1.9	0.3	1.3	1.4	1.2	2.1	1.2	0.9	0.7	0.2
Total,age adjusted	5,657	6.1	8.1	4.7	36.4	13.3	18.7	9.6	2.5	0.7	0.4	0.4	1.2	0.8	0.7	0.7	0.4
Female																	
36-39 years	674	2.6	4.6	2.6	23.5	11.7	25.2	21.0	8.5	0.6	1.3	0.8	2.6	1.8	2.2	2.2	1.8
40-49 years	1,357	2.1	3.5	2.6	27.4	14.3	25.7	19.7	4.7	0.5	0.6	0.6	1.8	1.3	1.9	1.7	0.7
50-59 years	1,025	4.5	4.2	2.6	29.9	13.7	23.1	15.7	6.0	1.0	0.9	0.6	2.5	1.2	1.5	1.4	1.0
60-69 years	1,192	5.6	8.2	7.2	30.9	14.0	20.8	9.7	3.2	0.8	1.1	1.0	1.8	1.4	1.5	1.0	0.7
70-79 years	1,046	7.6	11.9	7.3	35.6	11.1	16.0	7.8	1.1	1.0	1.2	0.8	2.2	0.9	1.4	1.2	0.4
80 + years	837	10.2	20.4	12.2	35.8	8.2	9.3	2.2	0.9	1.3	1.6	1.3	1.4	1.1	1.0	0.5	0.4
Total,age adjusted	6,131	4.4	6.6	4.5	29.5	13.0	22.1	14.9	4.6	0.4	0.4	0.4	1.2	0.5	0.8	0.7	0.5

See footnotes at end of table.

Table D-87—Distribution of weight gain over past 10 years: Age 36 and over[1] — Continued

Persons currently receiving food stamps

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
36-39 years	190	7.5	2.8	5.6	10.3	10.1	22.3	27.8	13.4	3.4	1.1	2.8	2.3	4.8	4.8	5.4	4.0
40-49 years	338	5.9	3.6	1.3	15.0	5.8	16.4	36.8	14.6	1.8	0.8	0.4	3.0	1.7	4.2	4.5	4.3
50-59 years	202	9.2	10.6	4.8	18.0	12.0	16.8	17.4	10.8	2.5	3.8	1.6	4.5	4.3	4.0	4.8	3.2
60-69 years	264	11.8	11.7	4.9	25.0	7.5	19.4	15.3	4.2	2.2	3.3	1.3	5.8	2.3	5.0	4.2	1.8
70-79 years	166	8.7	18.6	6.4	21.0	4.8	18.5	18.2	1.5	2.6	4.6	2.0	4.0	2.3	4.6	5.5	1.1
80 + years	119	21.6	20.9	8.9	32.6	4.8	3.6	4.1	2.2	4.8	5.3	2.9	5.9	2.4	1.8	2.0	2.1
Total,age adjusted	1,279	9.1	9.2	4.3	18.4	7.8	17.1	23.7	9.7	1.1	1.2	0.6	1.5	1.3	1.9	1.9	1.5
Male																	
36-39 years	69	11.0	5.1	0.0	14.4	3.2	39.0	18.7	8.7	6.8	2.4	0.0	4.5	1.7	11.1	8.4	4.6
40-49 years	129	7.2	4.7	2.0	23.1	10.1	19.5	21.0	12.5	3.5	1.3	1.1	6.3	4.4	5.5	6.6	8.8
50-59 years	77	8.2	8.4	7.4	12.5	19.9	14.3	20.1	9.2	3.9	5.1	3.2	3.9	7.7	6.6	7.2	5.0
60-69 years	111	13.2	8.0	9.8	34.0	4.6	14.4	15.7	0.0	3.8	3.8	4.6	10.2	2.4	4.4	7.5	0.0
70-79 years	72	9.9	14.6	6.0	29.4	6.4	17.5	11.0	0.1	4.6	7.5	2.5	7.7	3.4	10.3	6.3	0.1
80 + years	48	15.2	21.0	9.9	45.8	0.0	0.3	5.8	0.0	6.2	7.9	5.5	9.0	0.0	0.3	4.0	0.0
Total,age adjusted	506	9.7	8.3	5.1	23.4	9.4	18.6	17.5	7.1	1.7	1.7	1.2	2.8	2.4	2.9	3.4	3.2
Female																	
36-39 years	121	5.6	1.6	8.7	8.0	14.0	13.0	33.0	16.1	3.2	1.1	4.3	3.3	6.5	3.5	7.5	6.4
40-49 years	209	5.1	2.9	0.9	9.9	3.1	14.5	46.8	16.0	2.0	0.9	0.5	3.2	1.0	4.4	6.5	5.9
50-59 years	125	9.7	12.0	3.2	21.6	6.9	18.5	15.7	11.9	3.5	4.7	1.6	6.1	3.6	4.9	5.8	4.4
60-69 years	153	11.2	13.3	2.9	21.3	8.7	21.4	15.2	5.9	2.9	4.5	0.8	6.3	2.9	6.5	4.0	2.5
70-79 years	94	8.1	20.8	6.6	16.3	4.0	19.0	22.2	2.3	2.8	6.3	2.9	5.1	2.4	4.6	9.9	1.7
80 + years	71	23.8	20.8	8.5	27.8	6.6	4.8	3.5	3.0	6.0	6.8	3.9	6.8	3.1	2.5	2.2	2.9
Total,age adjusted	773	8.7	9.6	3.9	15.9	6.6	16.1	27.5	11.1	1.2	1.4	0.9	2.2	1.1	2.2	2.8	2.3

See footnotes at end of table.

Table D-87—Distribution of weight gain over past 10 years: Age 36 and over[1] — Continued

Income-eligible, food stamp nonparticipants

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
36-39 years	181	2.6	1.2	3.6	23.3	15.1	30.9	17.8	5.4	2.6	0.6	2.9	4.2	4.9	5.6	3.8	2.3
40-49 years	374	3.6	6.3	2.3	23.6	7.0	22.2	27.3	7.7	1.4	2.0	0.9	2.8	1.9	4.3	4.8	2.2
50-59 years	247	7.2	7.4	2.6	33.0	11.2	16.4	17.6	4.4	2.6	2.0	1.0	4.8	3.1	2.9	2.9	1.8
60-69 years	441	5.9	12.0	7.3	33.7	5.6	21.1	10.5	3.4	1.5	2.3	1.9	4.6	1.7	3.8	2.8	1.4
70-79 years	388	8.3	15.6	8.5	33.8	7.6	14.3	7.3	2.3	1.5	2.4	1.9	2.9	1.9	2.3	1.5	0.9
80 + years	372	10.9	20.0	14.1	31.6	7.2	' 11.6	2.2	0.7	1.8	2.5	1.8	2.7	1.6	1.9	0.9	0.6
Total,age adjusted	2,003	5.6	8.8	4.8	'' 28.9	8.9	20.2	17.3	4.9	1.0	0.8	0.7	1.9	1.1	1.8	1.8	1.0
Male																	
36-39 years	87	0.0	2.7	7.4	31.0	14.8	22.5	19.1	2.5	0.0	1.4	6.3	6.9	5.5	8.6	7.2	2.2
40-49 years	196	5.2	8.8	2.2	31.9	6.1	17.8	21.5	6.5	2.6	2.9	0.9	4.8	2.0	4.3	5.5	2.8
50-59 years	121	9.4	5.9	3.2	''' 43.9	11.9	10.7	14.2	0.7	4.6	2.5	1.6	7.0	5.5	3.5	5.0	0.5
60-69 years	215	8.1	11.4	8.1	36.5	4.6	21.0	8.3	1.8	2.8	2.5	2.7	6.1	2.1	4.9	4.4	1.1
70-79 years	170	13.9	12.1	3.1	40.7	5.1	19.4	4.2	0.5	3.5	2.5	1.4	5.6	2.2	3.8	2.4	0.4
80 + years	150	17.3	20.1	12.8	30.3	7.0	''' 11.7	0.8	0.0	3.5	3.2	2.9	4.4	2.7	2.3	0.7	0.0
Total,age adjusted	939	7.7	8.9	4.8	'' 36.1	8.3	17.1	14.2	2.8	1.5	1.1	1.1	3.1	1.8	2.0	2.4	1.1
Female																	
36-39 years	94	4.8	0.0	0.5	16.9	15.3	37.9	16.7	7.8	4.8	0.0	0.4	4.8	6.7	9.7	5.2	3.9
40-49 years	178	2.0	3.9	2.5	15.3	7.9	26.5	33.0	8.8	1.2	1.8	1.8	4.0	3.0	7.4	7.0	2.9
50-59 years	126	5.0	9.0	2.0	22.2	10.4	22.2	21.0	8.1	2.8	3.4	1.1	4.6	3.7	4.6	4.8	3.3
60-69 years	226	4.1	12.5	6.6	31.5	6.4	21.2	12.2	4.7	1.4	3.5	3.0	5.9	3.2	5.2	3.5	2.4
70-79 years	218	5.8	17.2	10.9	30.7	8.7	12.0	8.6	3.1	1.3	3.2	2.6	3.7	2.6	2.8	2.3	1.4
80 + years	222	8.3	20.0	14.7	32.2	7.2	11.6	2.7	1.0	2.0	3.1	2.4	3.6	1.9	2.6	1.2	0.8
Total,age adjusted	1,064	' 4.2	8.4	4.6	22.4	9.3	23.6	20.2	6.7	1.0	1.1	0.8	2.4	1.9	2.8	2.8	1.5

See footnotes at end of table.

Table D-87—Distribution of weight gain over past 10 years: Age 36 and over[1] — Continued

Higher-income, food stamp nonparticipants

	Sample size	Percent of persons by range of weight gain								Standard Errors							
		Lost weight			Same	Gained weight				Lost weight			Same	Gained weight			
		>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs	>25 lbs	11-25	6-10	+- 5	6-10	11-25	26-50	>50 lbs
Both sexes																	
36-39 years	783	3.1	4.7	2.4	›››26.1	12.2	27.8	16.7	6.3	1.3	1.0	0.7	2.0	1.6	2.3	1.4	1.4
40-49 years	1,735	3.2	4.1	3.4	›››31.7	›››16.9	23.1	›››13.8	3.3	0.7	0.7	0.7	1.6	1.2	1.6	1.0	0.5
50-59 years	1,331	4.9	5.7	3.1	›› 35.2	14.1	20.7	12.9	3.0	0.8	0.8	0.6	1.8	1.1	1.5	1.4	0.6
60-69 years	1,487	5.8	8.3	5.8	38.3	14.0	18.8	6.7	1.8	0.7	0.8	0.7	2.0	1.2	1.1	1.0	0.4
70-79 years	1,218	7.8	12.0	6.0	›››41.2	11.3	14.4	5.2	0.6	1.0	1.2	0.9	2.0	0.9	1.2	1.0	0.2
80 + years	849	10.4	20.2	12.8	38.5	7.6	7.4	1.9	0.7	1.3	1.7	1.4	1.7	1.1	1.0	0.7	0.4
Total,age adjusted	7,403	›››5.0	7.2	4.5	›››34.3	›››13.9	20.5	›››11.1	›››2.9	0.5	0.3	0.3	1.1	0.5	0.7	0.5	0.3
Male																	
36-39 years	369	4.2	3.7	› 2.6	26.5	› 13.2	30.8	12.6	5.2	2.5	1.1	0.9	2.6	2.7	3.7	2.3	2.0
40-49 years	861	4.4	4.6	4.1	33.8	18.1	19.4	11.3	3.4	1.1	1.2	1.2	1.9	1.9	2.3	1.2	0.8
50-59 years	651	5.5	8.0	3.8	›››37.9	13.8	18.8	10.6	1.4	1.5	1.4	0.8	3.0	2.3	1.8	2.0	0.5
60-69 years	799	6.0	9.6	4.0	45.8	12.4	16.0	4.8	0.8	1.0	1.1	0.9	2.9	1.6	1.6	1.1	0.3
70-79 years	610	8.4	14.1	6.6	44.3	9.7	11.8	3.2	0.6	1.2	1.7	1.2	2.6	1.4	1.7	0.9	0.3
80 + years	453	11.6	20.3	12.6	43.0	›› 4.6	›››5.0	1.5	0.4	1.4	1.9	1.5	2.7	1.4	1.0	0.7	0.3
Total,age adjusted	3,743	5.8	8.2	4.7	›››37.4	13.7	18.4	8.7	2.3	0.8	0.5	0.4	1.3	0.9	0.9	0.6	0.4
Female																	
36-39 years	414	2.1	5.5	2.1	›››25.7	11.2	› 25.0	20.6	7.5	0.8	1.6	0.9	3.2	1.7	2.6	2.4	1.7
40-49 years	874	1.8	3.6	2.7	›››29.5	›››15.6	27.0	›››16.4	3.2	0.5	0.6	0.7	2.1	1.4	2.3	1.8	0.6
50-59 years	680	4.3	3.3	2.4	32.5	14.5	22.8	15.3	4.6	1.0	1.0	0.7	2.8	1.3	1.9	1.5	1.0
60-69 years	688	5.6	7.0	›› 7.6	31.0	15.5	21.4	8.6	2.9	0.9	1.1	1.3	2.3	1.5	1.9	1.2	0.8
70-79 years	608	7.3	10.2	5.6	›››38.5	›› 12.7	16.7	7.0	0.7	1.4	1.6	1.1	2.7	1.2	1.7	1.4	0.4
80 + years	396	9.6	20.1	12.8	35.2	9.7	9.1	2.2	0.9	2.0	2.5	1.9	2.5	1.6	1.4	0.8	0.6
Total,age adjusted	3,660	›› 4.1	6.2	4.3	›››31.4	›››14.0	22.5	›››13.5	›› 3.6	0.5	0.4	0.4	1.4	0.5	1.0	0.8	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Respondents age 36 and over were asked to report their weight 10 years ago; this response was compared to current weight reported in the household interview.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-88—Mean difference between most ever weighed and current weight: Age 17 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
17-19 years	1,072	6.2	0.4	208	7.3	2.0	252	9.0	1.6	489	5.3	0.4
20-29 years	3,274	9.5	0.4	525	10.2	1.2	737	8.6	0.8	1,771	9.6	0.5
30-39 years	3,320	11.2	0.3	526	11.1	1.2	553	11.9	1.0	2,035	11.4	0.3
40-49 years	2,683	12.3	0.5	352	19.3	3.3	384	› 11.2	1.3	1,757	› 12.1	0.5
50-59 years	1,986	13.4	0.6	206	17.1	2.2	256	16.9	2.2	1,358	12.9	0.6
60-69 years	2,485	15.0	0.5	280	19.8	2.4	462	17.3	1.9	1,502	› 14.5	0.6
70-79 years	2,049	17.0	0.5	178	19.3	2.4	408	18.7	1.6	1,240	16.2	0.6
80 + years	1,667	21.6	0.7	130	23.4	2.0	411	23.9	1.3	870	20.3	0.9
Total, age adjusted	18,536	12.4	0.2	2,405	15.3	0.9	3,463	13.3	0.6	11,022	›› 12.2	0.2
Male												
17-19 years	555	5.6	0.5	97	4.0	0.8	134	› 8.4	1.6	252	5.0	0.6
20-29 years	1,720	8.7	0.4	216	7.6	0.9	402	7.5	0.8	955	9.3	0.5
30-39 years	1,580	11.2	0.4	184	11.2	2.1	261	11.4	1.6	1,034	11.4	0.4
40-49 years	1,290	14.4	0.8	133	19.9	4.6	201	14.8	2.1	869	14.3	0.9
50-59 years	932	15.2	0.8	79	15.4	2.2	124	17.4	2.7	662	15.2	1.0
60-69 years	1,256	16.8	0.8	118	15.7	1.9	225	20.8	3.7	805	16.5	0.8
70-79 years	957	18.1	0.6	74	19.6 *	2.7	173	19.3	1.8	621	18.2	0.7
80 + years	770	22.0	0.6	50	19.6 *	2.4	159	22.6	1.8	464	21.9	0.8
Total, age adjusted	9,060	13.2	0.2	951	14.0	1.1	1,679	14.1	0.7	5,662	13.3	0.3
Female												
17-19 years	517	7.0	0.9	111	9.1 *	3.1	118	9.6	2.6	237	5.6	0.5
20-29 years	1,554	10.4	0.6	309	12.0	2.0	335	9.8	1.4	816	10.1	0.7
30-39 years	1,740	11.3	0.6	342	11.0	1.5	292	12.4	1.3	1,001	11.3	0.6
40-49 years	1,393	10.3	0.6	219	18.9	4.3	183	›› 7.8	1.4	888	› 9.9	0.6
50-59 years	1,054	11.7	0.8	127	18.2	3.5	132	16.3	3.8	696	› 10.5	0.7
60-69 years	1,229	13.4	0.6	162	21.6	3.3	237	14.6	2.1	697	›› 12.5	0.6
70-79 years	1,092	16.1	0.8	104	19.2	3.6	235	18.4	2.1	619	14.4	0.9
80 + years	897	21.4	0.9	80	24.7	2.4	252	24.4	1.7	406	19.1	1.2
Total, age adjusted	9,476	11.8	0.3	1,454	16.0	1.2	1,784	› 12.6	0.8	5,360	››› 11.1	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Respondents were asked to report the most they ever weighted up to the present time (excluding pregnancy weight); this response was compared to current weight reported in the householdinterview.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-89—Distribution of difference between most ever weighed and current weight: Age 17 and over[1]

Total persons

	Sample size	Percent of persons by range of weight difference							Standard Errors						
		No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs	No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs
Both sexes															
17-19 years	1,072	41.0	25.7	16.2	7.0	6.5	3.2	0.4	2.5	2.3	1.7	1.2	0.9	0.7	0.2
20-29 years	3,274	31.7	20.5	17.6	11.6	10.5	6.8	1.3	1.6	1.2	0.9	0.9	1.0	0.9	0.3
30-39 years	3,320	29.1	16.8	17.2	11.4	15.4	8.2	2.0	1.1	0.7	1.1	0.9	1.1	0.7	0.3
40-49 years	2,683	28.5	16.1	17.7	13.0	11.0	11.1	2.6	1.0	1.2	1.1	1.3	0.9	1.0	0.5
50-59 years	1,986	26.7	14.8	17.4	9.6	16.1	12.7	2.6	1.6	1.0	1.0	0.9	1.1	1.0	0.5
60-69 years	2,485	20.3	16.6	17.4	11.8	15.4	14.4	4.0	1.1	1.0	1.1	1.0	1.0	1.0	0.5
70-79 years	2,049	18.1	14.8	16.8	10.4	17.1	17.4	5.5	1.1	1.2	0.8	1.0	1.1	1.2	0.8
80 + years	1,667	11.0	10.4	15.0	13.3	18.3	23.6	8.3	1.0	1.2	1.0	1.1	0.9	1.1	0.8
Total, age adjusted	18,536	27.3	17.1	17.2	11.3	13.5	10.9	2.7	0.7	0.4	0.4	0.4	0.4	0.3	0.2
Male															
17-19 years	555	45.8	25.3	11.7	8.2	5.9	2.6	0.4	3.6	3.1	2.5	2.2	1.3	0.8	0.3
20-29 years	1,720	33.1	21.9	17.0	11.5	9.7	5.9	1.0	1.8	1.6	1.0	1.3	1.4	1.0	0.3
30-39 years	1,580	26.1	19.7	17.2	12.0	15.6	8.0	1.4	1.5	1.4	1.4	1.1	1.6	1.3	0.5
40-49 years	1,290	22.7	14.9	20.5	13.0	11.6	14.2	3.1	1.7	1.6	1.6	1.9	1.2	1.6	0.8
50-59 years	932	19.9	14.3	16.4	10.9	20.4	16.1	2.0	2.2	1.4	1.6	1.3	1.8	1.8	0.7
60-69 years	1,256	13.4	17.2	19.2	12.6	17.1	15.6	4.9	1.2	1.7	1.6	1.5	1.6	1.5	0.8
70-79 years	957	12.9	13.2	17.2	11.9	19.4	20.0	5.4	1.2	1.6	1.3	1.6	1.8	1.7	1.1
80 + years	770	7.5	11.8	15.5	13.4	18.9	24.7	8.2	1.2	1.3	1.5	1.7	1.4	1.5	1.2
Total, age adjusted	9,060	23.8	17.6	17.5	11.9	14.5	12.2	2.6	0.8	0.6	0.5	0.6	0.5	0.5	0.2
Female															
17-19 years	517	35.2	26.2	21.6	5.6	7.2	3.8	0.4	3.3	3.2	2.5	1.5	1.8	1.1	0.3
20-29 years	1,554	30.2	18.9	18.4	11.6	11.4	7.8	1.7	1.9	1.8	1.7	1.2	1.3	1.2	0.4
30-39 years	1,740	32.3	13.7	17.3	10.8	15.1	8.3	2.6	1.8	1.4	1.4	1.5	1.4	1.0	0.5
40-49 years	1,393	34.3	17.2	14.9	12.9	10.4	8.0	2.2	1.4	1.7	1.2	1.4	1.3	0.9	0.5
50-59 years	1,054	33.1	15.4	18.4	8.4	12.0	9.5	3.2	2.0	1.4	1.4	1.0	1.0	0.9	0.7
60-69 years	1,229	26.3	16.2	15.9	11.1	13.9	13.3	3.3	1.8	1.1	1.5	1.2	1.2	1.1	0.7
70-79 years	1,092	21.8	16.0	16.6	9.2	15.4	15.4	5.5	1.7	1.4	1.2	1.0	1.4	1.4	0.9
80 + years	897	13.0	9.6	14.7	13.2	18.0	23.0	8.4	1.4	1.5	1.0	1.3	1.4	1.6	1.0
Total, age adjusted	9,476	30.4	16.5	17.1	10.7	12.6	9.8	2.9	0.9	0.6	0.5	0.4	0.6	0.4	0.2

See footnotes at end of table.

Table D-89—Distribution of difference between most ever weighed and current weight: Age 17 and over[1] — Continued

Persons currently receiving food stamps

	Sample size	Percent of persons by range of weight difference							Standard Errors						
		No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs	No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs
Both sexes															
17-19 years	208	42.6	23.5	20.0	5.8	3.5	2.8	1.6	6.0	5.3	6.1	2.1	1.2	1.9	1.5
20-29 years	525	35.6	20.2	16.1	10.2	8.6	6.5	2.8	3.8	2.5	3.9	2.3	1.8	2.0	1.0
30-39 years	526	41.9	13.7	11.9	5.8	14.4	7.7	4.6	3.8	2.5	2.3	1.1	3.1	1.9	1.4
40-49 years	352	26.3	14.1	14.7	6.1	11.1	21.4	6.4	4.0	3.2	1.9	1.5	3.9	4.6	2.4
50-59 years	206	28.0	8.6	17.4	5.7	18.3	16.4	5.6	5.1	3.5	2.9	1.9	3.2	3.8	2.2
60-69 years	280	22.6	6.5	19.1	8.7	16.2	18.6	8.3	4.9	1.8	4.4	3.2	3.3	2.7	2.6
70-79 years	178	18.4	13.4	15.1	9.6	16.2	19.7	7.6	3.3	3.5	3.4	3.6	4.6	3.9	2.8
80 + years	130	12.9	8.1	11.0	13.8	17.7	27.4	9.0	3.0	2.6	2.8	4.1	3.5	4.2	2.2
Total, age adjusted	2,405	30.7	13.8	15.4	7.5	13.1	14.1	5.4	2.0	1.0	1.2	0.6	1.4	1.5	0.9
Male															
17-19 years	97	56.2	27.0	4.3	4.0	7.0	1.6	0.0	6.9	5.8	1.8	1.9	3.0	1.0	0.0
20-29 years	216	38.2	19.0	19.2	9.0	12.2	1.6	0.8	5.5	2.5	6.2	2.4	4.2	0.7	0.5
30-39 years	184	37.3	15.4	12.9	5.7	17.6	7.3	3.8	8.2	4.1	3.8	2.2	6.4	3.4	2.1
40-49 years	133	15.9	21.3	20.5	5.3	9.9	19.0	8.1	4.2	4.8	4.5	1.7	3.6	5.8	4.6
50-59 years	79	23.8	14.1	17.1	5.8	20.3	14.8	4.2	8.1	7.6	5.6	3.7	7.3	6.0	2.8
60-69 years	118	20.3	9.2	27.1	5.0	18.0	19.1	1.2	5.8	3.8	9.5	2.2	3.6	4.2	0.8
70-79 years	74	16.4	11.3	11.7	5.7	24.8	22.6	7.4	6.8	4.6	5.9	2.9	10.7	8.6	5.8
80 + years	50	6.4	16.6	15.0	18.8	19.7	14.0	9.5	3.1	5.7	5.8	8.6	7.3	6.6	5.5
Total, age adjusted	951	27.6	16.8	17.0	6.6	15.6	12.0	4.3	2.3	1.9	2.3	1.0	2.5	1.6	1.2
Female															
17-19 years	111	35.3	21.7	28.5	6.8	1.7	3.5	2.5	7.9	7.3	8.7	3.0	0.9	2.9	2.3
20-29 years	309	34.0	21.0	14.0	11.0	6.1	9.8	4.1	4.3	4.2	3.6	3.3	1.5	3.6	1.6
30-39 years	342	44.9	12.5	11.3	5.8	12.4	8.0	5.1	3.8	3.6	3.0	1.0	2.8	1.9	1.9
40-49 years	219	32.8	9.6	11.1	6.6	11.8	22.9	5.3	5.2	3.0	2.7	2.0	6.0	6.0	2.4
50-59 years	127	30.7	5.1	17.6	5.6	17.0	17.5	6.4	6.2	2.4	4.4	2.6	4.5	4.6	3.4
60-69 years	162	23.5	5.4	15.7	10.3	15.4	18.4	11.3	6.4	1.8	4.5	4.3	4.0	3.5	3.6
70-79 years	104	19.4	14.4	16.7	11.5	12.0	18.3	7.8	5.0	5.0	3.9	4.2	3.7	4.8	3.6
80 + years	80	15.1	5.2	9.6	12.2	17.0	31.9	8.9	3.9	2.9	3.1	4.7	3.9	5.2	3.2
Total, age adjusted	1,454	32.6	12.0	14.4	8.1	11.7	15.3	6.0	2.3	1.3	1.3	0.8	1.5	2.1	1.1

See footnotes at end of table.

Table D-89—Distribution of difference between most ever weighed and current weight: Age 17 and over[1] — Continued

Income-eligible, food stamp nonparticipants

	Sample size	Percent of persons by range of weight difference							Standard Errors						
		No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs	No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs
Both sexes															
17-19 years	252	37.6	18.0	18.5	6.2	10.5	8.0	1.2	4.9	4.1	4.7	2.5	2.9	3.1	0.8
20-29 years	737	33.0	23.3	17.6	12.0	7.5	5.4	1.2	3.8	2.7	2.5	2.4	1.8	1.1	0.7
30-39 years	553	31.2	15.4	14.8	10.1	15.5	11.8	1.2	3.2	2.7	2.6	2.5	4.0	2.5	0.5
40-49 years	384	41.4	12.2	14.6	6.5	10.2	13.1	2.1	5.3	2.2	3.0	1.7	2.7	3.0	1.0
50-59 years	256	26.9	17.8	10.8	13.1	13.7	11.4	6.4	4.8	3.3	1.9	4.4	3.1	3.1	2.0
60-69 years	462	17.0	13.5	16.2	12.5	22.0	13.9	4.9	2.2	2.9	2.6	2.8	2.9	2.6	2.3
70-79 years	408	20.9	10.7	16.6	7.7	19.0	17.7	7.4	2.5	2.0	2.7	2.0	2.8	2.6	2.0
80 + years	411	12.4	8.8	13.8	11.0	17.1	26.0	10.9	2.0	1.5	1.8	1.6	2.2	2.3	1.7
Total, age adjusted	3,463	30.4	15.8	15.1	10.0	13.4	11.9	3.4	1.8	1.0	1.1	1.0	1.3	0.9	0.4
Male															
17-19 years	134	36.1	17.4	23.8	7.2	8.3	4.7	2.5	5.8	5.5	7.8	4.3	4.4	2.4	1.6
20-29 years	402	29.8	25.5	19.7	15.1	6.7	2.0	1.1	4.7	4.5	4.2	3.6	2.7	0.7	0.9
30-39 years	261	29.6	22.5	15.2	8.5	8.6	15.3	0.4	4.6	4.0	3.1	2.6	2.9	4.8	0.3
40-49 years	201	31.9	9.1	16.8	8.5	12.4	18.7	2.6	5.6	2.2	5.4	2.8	3.8	5.3	1.8
50-59 years	124	20.4	19.5	8.1	16.5	14.5	13.5	7.5	6.8	5.3	2.3	8.0	5.7	5.0	3.5
60-69 years	225	9.2	13.3	20.6	14.1	18.8	19.7	4.2	2.6	5.4	4.7	3.8	4.2	4.7	2.0
70-79 years	173	16.5	11.3	12.4	15.6	14.7	21.1	8.4	3.8	4.3	2.4	4.3	3.2	4.6	4.2
80 + years	159	12.5	8.3	14.5	12.4	14.7	29.4	8.3	3.0	1.6	3.7	3.3	3.1	2.7	2.6
Total, age adjusted	1,679	25.4	17.2	16.0	12.0	11.6	14.3	3.4	2.0	1.9	1.8	1.6	1.6	1.6	0.7
Female															
17-19 years	118	39.2	18.5	13.1	5.2	12.8	11.3	0.0	7.9	6.8	5.3	2.8	4.6	5.2	0.0
20-29 years	335	36.9	20.6	15.1	8.3	8.4	9.4	1.3	5.6	3.8	2.8	2.5	1.9	2.4	1.1
30-39 years	292	32.6	9.3	14.6	11.5	21.4	8.7	1.8	4.8	2.5	3.6	4.0	6.3	2.9	0.9
40-49 years	183	50.6	15.3	12.4	4.5	8.1	7.7	1.5	7.4	3.8	3.2	1.5	2.3	2.5	0.9
50-59 years	132	33.5	16.0	13.5	9.7	12.8	9.3	5.2	6.2	4.2	3.4	3.3	3.6	3.6	2.8
60-69 years	237	23.0	13.7	12.8	11.3	24.5	9.4	5.4	3.6	3.4	3.1	3.1	4.8	3.4	3.7
70-79 years	235	22.8	10.5	18.3	4.4	20.8	16.2	7.1	3.0	2.5	3.6	1.8	3.4	2.9	2.1
80 + years	252	12.3	9.0	13.6	10.4	18.0	24.6	12.0	2.4	2.2	2.2	1.7	2.8	3.0	2.1
Total, age adjusted	1,784	34.9	14.5	14.0	8.3	14.8	10.2	3.2	2.3	1.3	1.7	1.2	1.7	1.3	0.6

See footnotes at end of table.

Table D-89—Distribution of difference between most ever weighed and current weight: Age 17 and over[1] — Continued

Higher-income, food stamp nonparticipants

	Sample size	Percent of persons by range of weight difference							Standard Errors						
		No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs	No change	1-5 lbs	6-10	11-15	16-25	26-50	>50 lbs
Both sexes															
17-19 years	489	43.6	26.4	15.5	6.3	6.1	2.1	0.1	3.6	3.0	2.0	1.7	1.3	0.9	0.1
20-29 years	1,771	30.6	19.7	18.1	11.7	11.7	7.2	1.0	1.6	1.4	1.2	1.2	1.1	1.2	0.3
30-39 years	2,035	›› 27.1	17.1	17.8	››› 12.4	16.0	7.8	1.9	1.4	1.0	1.4	1.1	1.2	0.9	0.4
40-49 years	1,757	27.6	16.5	17.4	›› 14.3	11.0	10.6	2.5	1.3	1.4	1.3	1.5	1.1	1.0	0.5
50-59 years	1,358	26.6	14.5	18.5	9.1	16.8	12.5	2.0	1.7	1.2	1.3	0.9	1.4	1.1	0.5
60-69 years	1,502	20.5	››› 17.8	16.8	12.1	14.7	14.4	3.6	1.4	1.2	1.3	1.2	1.2	1.0	0.5
70-79 years	1,240	17.6	16.2	16.7	10.9	17.2	16.9	4.6	1.4	1.4	1.2	1.2	1.3	1.5	0.8
80 + years	870	10.2	11.7	16.3	15.6	17.2	21.9	7.2	1.2	1.4	1.8	1.4	1.4	1.8	1.2
Total, age adjusted	11,022	26.6	› 17.3	17.5	››› 11.8	13.8	10.6	›› 2.4	0.8	0.5	0.5	0.5	0.5	0.4	0.2
Male															
17-19 years	252	49.4	25.5	8.8	8.1	5.5	2.6	0.1	5.4	4.7	2.6	2.8	1.5	1.4	0.1
20-29 years	955	33.2	20.8	16.2	10.9	10.4	››› 7.5	1.0	2.1	1.8	1.2	1.6	1.6	1.4	0.4
30-39 years	1,034	23.9	20.4	16.9	13.0	16.9	7.5	1.4	1.8	1.7	1.6	1.3	1.8	1.4	0.6
40-49 years	869	21.9	15.5	20.0	› 14.2	11.2	14.1	3.0	1.7	1.9	2.2	2.2	1.3	1.6	0.9
50-59 years	662	20.3	12.1	17.8	10.1	21.4	17.0	1.4	2.7	1.5	1.9	1.3	2.2	2.0	0.7
60-69 years	805	13.6	18.0	18.0	› 12.9	17.2	15.1	› 5.2	1.4	1.7	1.7	1.7	1.7	1.6	1.0
70-79 years	621	11.8	13.2	17.7	11.7	20.6	20.3	4.8	1.2	1.8	1.9	1.9	2.1	2.2	1.1
80 + years	464	6.4	12.5	15.1	14.0	20.6	23.3	8.0	1.4	1.6	1.7	1.7	1.6	1.8	1.5
Total, age adjusted	5,662	23.4	17.4	17.2	››› 12.1	15.1	12.4	2.5	0.9	0.7	0.7	0.7	0.7	0.6	0.3
Female															
17-19 years	237	36.1	27.5	24.1	4.0	6.8	1.4	0.1	4.8	3.2	4.0	1.8	2.3	0.9	0.1
20-29 years	816	27.4	18.4	20.3	12.7	› 13.3	6.9	1.0	2.1	2.1	2.1	1.4	1.7	1.4	0.3
30-39 years	1,001	›› 30.7	13.3	18.8	›› 11.6	14.9	8.2	2.5	2.1	1.5	1.6	1.7	1.8	1.2	0.6
40-49 years	888	33.6	17.4	14.9	› 14.4	10.7	7.0	2.0	2.0	2.0	1.3	1.7	1.6	1.0	0.6
50-59 years	696	33.0	››› 16.9	19.3	8.0	12.1	8.0	2.5	1.9	1.8	1.7	1.1	1.3	1.1	0.6
60-69 years	697	27.2	››› 17.6	15.6	11.3	12.4	13.8	2.1	2.3	1.4	1.8	1.4	1.5	1.4	0.5
70-79 years	619	22.7	18.8	15.9	10.2	14.1	13.8	4.4	2.1	2.0	1.7	1.2	1.7	1.6	1.1
80 + years	406	12.9	11.0	17.1	16.7	14.8	20.8	6.7	1.9	2.0	2.1	2.0	2.0	2.6	1.4
Total, age adjusted	5,360	29.6	›› 17.1	18.0	›› 11.5	12.6	› 8.8	›› 2.3	1.1	0.7	0.6	0.6	0.7	0.5	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Respondents were asked to report the most they ever weighted up to the present time (excluding pregnancy weight); this response was compared to current weight reported in the householdinterview.

Source: NHANES-III, 1988-94: Adult interview file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-90—Percent of persons who perceived themselves overweight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
						All persons						
Both sexes												
17-19 years	1,035	32.0	2.3	203	40.2	6.7	255	29.9	6.0	465	30.6	2.7
20-29 years	3,165	43.4	1.5	534	39.9	3.8	745	38.8	2.9	1,642	45.3	2.0
30-39 years	3,164	54.6	1.5	516	53.8	3.5	562	54.8	4.0	1,897	55.7	1.6
40-49 years	2,573	60.6	1.4	353	63.4	4.2	390	56.1	4.3	1,653	60.8	1.6
50-59 years	1,869	64.1	1.7	208	65.6	5.6	260	54.8	5.0	1,255	64.9	1.8
60-69 years	2,361	57.3	1.5	279	44.4	5.7	454	52.8	4.8	1,403	› 59.2	1.7
70-79 years	1,863	44.8	1.4	172	44.9	5.7	392	40.1	2.8	1,117	46.0	1.8
80 + years	1,490	25.4	1.1	130	12.8 *	3.4	367	›› 25.7	2.6	781	››› 28.4	1.8
Total, age adjusted	17,520	52.2	0.5	2,395	50.9	1.8	3,425	48.2	1.6	10,213	53.2	0.6
						Healthy weight persons[1]						
Both sexes												
17-19 years	657	19.8	2.3	122	17.6 *	6.0	151	9.6 *	3.3	308	21.5	2.9
20-29 years	1,650	23.9	1.8	250	16.0	3.8	376	15.7	3.5	893	›› 26.9	2.3
30-39 years	1,213	27.2	1.7	176	18.3	5.0	190	26.3	7.0	781	› 28.7	1.7
40-49 years	797	31.5	3.0	84	12.4 *	5.8	109	26.0	7.3	557	›› 33.5	3.3
50-59 years	519	28.5	2.6	51	17.2 *	9.1	76	11.2 *	5.5	359	31.3	3.0
60-69 years	648	22.7	2.2	80	6.6 *	4.0	111	12.6 *	6.1	405	››› 25.3	2.7
70-79 years	667	17.0	1.8	50	15.7 *	9.9	129	10.0 *	4.4	415	18.1	2.3
80 + years	639	7.0	1.3	50	0.0 *	0.0	155	›› 5.6 *	2.1	336	››› 9.0	2.0
Total, age adjusted	6,790	25.2	0.9	863	14.4	2.6	1,297	17.7	2.5	4,054	››› 27.3	1.0
						Overweight and obese persons[1]						
Both sexes												
17-19 years	308	74.2	4.7	69	83.8 *	6.2	87	72.7	8.5	120	71.0	6.9
20-29 years	1,402	77.2	1.8	263	69.6	5.8	340	73.6	4.0	692	79.6	2.5
30-39 years	1,892	80.2	1.7	330	80.8	3.7	359	79.4	2.8	1,083	81.8	1.7
40-49 years	1,742	82.0	1.5	263	84.7	3.1	276	› 72.7	3.9	1,074	82.7	2.0
50-59 years	1,314	81.2	1.4	152	84.1	3.2	178	80.4	3.6	874	80.9	1.6
60-69 years	1,659	75.1	1.4	186	58.7	7.3	329	75.3	4.1	978	› 76.8	1.5
70-79 years	1,151	63.6	1.9	113	58.0	6.7	247	57.8	3.3	685	65.8	2.4
80 + years	748	44.4	2.1	68	23.7 *	6.2	189	›› 45.9	4.0	402	›› 46.7	2.6
Total, age adjusted	10,216	76.5	0.6	1,444	73.9	1.6	2,005	73.2	1.5	5,908	77.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-91—Percent of males who perceived themselves overweight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All males											
Male												
17-19 years	534	18.7	2.7	91	16.2 *	3.7	143	26.6 *	9.2	235	16.6	2.8
20-29 years	1,644	33.4	2.0	214	22.1	4.5	407	28.5	4.4	877	›› 36.3	2.6
30-39 years	1,469	45.4	2.4	176	31.8	6.6	261	37.0	5.7	944	› 48.5	2.6
40-49 years	1,224	51.6	2.0	131	47.3	7.3	202	34.4	5.5	807	53.2	2.2
50-59 years	859	54.7	2.3	77	53.0 *	9.4	119	41.6	7.4	601	56.3	2.7
60-69 years	1,185	49.7	2.3	118	23.0	7.0	221	› 40.9	5.4	743	››› 52.2	2.5
70-79 years	869	35.3	2.4	76	41.2 *	9.8	164	29.1	5.6	558	35.6	2.9
80 + years	697	17.4	1.5	53	4.8 *	3.0	141	› 13.9 *	3.6	420	››› 19.7	1.7
Total, age adjusted	8,481	42.8	0.8	936	34.1	3.0	1,658	33.8	2.0	5,185	››› 44.7	0.9
	Healthy weight males[1]											
Male												
17-19 years	354	3.7 *	1.5	59	5.3 *	3.2	87	1.8 *	1.2	159	3.9 *	2.1
20-29 years	861	8.3	1.4	112	6.3 *	3.7	213	2.4 *	1.4	451	10.1	1.9
30-39 years	572	12.2	2.1	81	5.7 *	4.2	108	5.2 *	4.3	348	14.1	2.7
40-49 years	382	13.6	3.4	51	1.5 *	1.0	68	1.5 *	1.2	240	››› 16.3	4.0
50-59 years	247	11.4	2.4	26	3.4 *	3.4	39	5.0 *	3.5	164	› 12.6	3.2
60-69 years	337	13.4	2.9	48	1.8 *	1.7	61	0.1 *	0.1	201	››› 15.2	3.3
70-79 years	319	6.7	2.4	31	0.0 *	0.0	65	0.1 *	0.1	193	› 6.5 *	2.6
80 + years	308	3.5 *	1.0	21	0.0 *	0.0	67	0.8 *	0.8	183	›› 4.0 *	1.2
Total, age adjusted	3,380	10.5	0.9	429	3.5 *	1.2	708	2.6 *	1.0	1,939	››› 12.1	1.2
	Overweight and obese males[1]											
Male												
17-19 years	156	62.1	6.3	28	50.0 *	10.8	50	62.5 *	11.4	63	59.8	9.6
20-29 years	752	67.0	2.6	99	46.2	7.9	188	61.7	5.4	408	› 70.2	3.7
30-39 years	879	69.5	2.9	94	63.1	10.5	146	69.9	5.3	587	71.8	2.9
40-49 years	834	71.8	2.7	79	81.8 *	6.4	131	›› 53.0	7.2	563	72.6	3.1
50-59 years	603	70.9	2.4	49	76.6 *	8.3	76	69.2	6.9	434	70.5	2.7
60-69 years	824	65.5	2.6	63	34.8 *	10.6	155	› 64.0	6.0	533	›› 67.3	2.8
70-79 years	532	52.0	2.9	41	68.4 *	8.8	92	47.1	7.8	359	52.4	3.3
80 + years	347	31.1	3.0	24	12.0 *	7.1	68	27.7	8.0	218	››› 33.6	2.8
Total, age adjusted	4,927	65.9	1.1	477	60.6	3.8	906	60.3	2.8	3,165	67.2	1.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-92—Percent of females who perceived themselves overweight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	501	47.3	3.3	112	52.3	9.0	112	33.5	7.9	230	47.4	4.4
20-29 years	1,521	54.8	2.3	320	50.8	5.0	338	51.4	4.3	765	56.4	2.7
30-39 years	1,695	64.3	2.1	340	68.2	4.0	301	69.8	4.8	953	63.8	2.6
40-49 years	1,349	69.3	1.9	222	73.3	4.2	188	79.2	5.9	846	68.3	2.2
50-59 years	1,010	72.9	1.8	131	72.9	5.1	141	67.3	4.4	654	73.3	1.9
60-69 years	1,176	63.7	1.8	161	52.2	6.7	233	62.3	6.2	660	65.8	2.3
70-79 years	994	51.7	2.0	96	47.1	7.4	228	45.0	3.8	559	55.1	2.6
80 + years	793	29.6	1.4	77	15.8 *	4.4	226	› 30.0	3.0	361	››› 34.4	2.6
Total, age adjusted	9,039	61.4	0.9	1,459	60.5	2.2	1,767	61.6	2.0	5,028	62.1	1.0
	Healthy weight females[1]											
Female												
17-19 years	303	39.9	4.3	63	25.6 *	9.4	64	18.0 *	6.8	149	44.4	6.1
20-29 years	789	40.1	2.8	138	23.6	5.5	163	32.6	6.9	442	››› 43.7	3.3
30-39 years	641	40.7	2.4	95	32.2	8.4	82	48.5 *	10.6	433	41.4	2.8
40-49 years	415	44.6	4.0	33	30.1 *	12.4	41	55.9 *	15.0	317	45.0	4.0
50-59 years	272	41.4	3.6	25	27.5 *	14.0	37	19.2 *	10.3	195	44.0	4.0
60-69 years	311	29.5	3.8	32	9.1 *	5.8	50	25.6 *	12.4	204	›› 32.7	4.6
70-79 years	348	23.6	2.8	19	33.1 *	19.4	64	14.9 *	6.2	222	26.4	3.8
80 + years	331	8.9	1.9	29	0.0 *	0.0	88	›› 7.6 *	2.8	153	››› 12.6	3.2
Total, age adjusted	3,410	37.6	1.4	434	25.6	4.1	589	› 34.6	3.7	2,115	›› 39.8	1.5
	Overweight and obese females[1]											
Female												
17-19 years	152	89.0 *	4.2	41	94.4 *	2.8	37	90.0 *	9.0	57	86.3 *	7.0
20-29 years	650	92.7	1.6	164	81.2	6.1	152	90.2 *	3.7	284	›› 97.8 *	0.8
30-39 years	1,013	94.1	1.3	236	88.9	3.1	213	85.9	4.9	496	›› 97.4 *	0.8
40-49 years	908	94.4	0.8	184	86.0	3.3	145	92.6 *	1.8	511	›› 96.5	0.8
50-59 years	711	92.2	0.9	103	88.0 *	2.7	102	89.4 *	2.5	440	› 93.2	1.0
60-69 years	835	84.0	1.6	123	66.1	7.8	174	84.0	3.4	445	›› 86.9	2.0
70-79 years	619	72.8	2.5	72	53.2	7.8	155	62.6	4.8	326	›› 79.4	2.8
80 + years	401	51.5	2.5	44	26.5 *	7.7	121	› 52.2	4.3	184	›› 56.1	3.4
Total, age adjusted	5,289	88.8	0.5	967	79.4	1.8	1,099	› 85.3	1.5	2,743	››› 91.8	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-93—Percent of adults who expressed a desire to lose weight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All persons											
Both sexes												
17-19 years	1,035	42.5	2.5	203	42.0	6.8	255	40.3	7.3	465	42.5	3.3
20-29 years	3,162	53.2	1.3	534	45.6	3.6	744	48.4	2.9	1,640	›› 55.9	1.7
30-39 years	3,164	63.1	1.6	516	56.8	4.4	562	58.6	3.2	1,897	65.3	1.8
40-49 years	2,574	68.5	1.3	353	65.0	4.4	390	56.1	4.3	1,653	69.7	1.6
50-59 years	1,869	71.8	1.6	208	66.1	6.0	260	61.8	4.1	1,255	73.5	1.7
60-69 years	2,365	61.9	1.4	281	45.7	5.6	455	53.3	4.4	1,403	›› 64.3	1.4
70-79 years	1,864	50.2	1.7	172	47.2	5.8	392	45.4	3.5	1,117	51.6	2.0
80 + years	1,491	30.2	1.4	131	13.6 *	2.9	367	››› 30.0	3.2	781	››› 34.2	2.5
Total, age adjusted	17,524	60.0	0.5	2,398	53.3	1.9	3,425	52.9	1.5	10,211	››› 61.9	0.6
	Healthy weight persons[1]											
Both sexes												
17-19 years	657	31.6	3.2	122	18.5 *	6.1	151	21.3	6.5	308	› 34.8	4.3
20-29 years	1,650	39.0	1.9	250	23.3	3.5	376	31.1	4.4	893	››› 42.9	2.5
30-39 years	1,213	40.0	2.3	176	21.8	5.1	190	32.0	6.6	781	››› 43.4	2.6
40-49 years	797	45.3	3.1	84	12.9 *	5.8	109	23.6 *	6.7	557	››› 48.5	3.7
50-59 years	519	39.0	3.4	51	18.5 *	9.2	76	28.6 *	9.6	359	› 41.3	3.8
60-69 years	650	27.3	2.3	81	10.7 *	7.5	111	11.1 *	5.3	406	› 30.5	2.7
70-79 years	667	23.8	2.3	50	15.7 *	9.9	128	15.2 *	5.9	415	24.7	2.5
80 + years	638	10.5	1.4	50	2.1 *	2.1	154	› 12.6 *	4.3	336	››› 11.6	1.8
Total, age adjusted	6,791	36.5	0.9	864	17.2	2.8	1,295	› 24.8	2.5	4,055	››› 39.5	1.2
	Overweight and obese persons[1]											
Both sexes												
17-19 years	308	80.7	3.9	69	87.5 *	5.4	87	80.5	6.1	120	78.4	5.6
20-29 years	1,399	79.8	1.8	263	73.8	5.9	339	76.5	3.9	690	82.1	2.2
30-39 years	1,892	85.1	1.6	330	83.6	3.7	359	81.7	2.8	1,083	86.9	1.9
40-49 years	1,743	86.3	1.6	263	86.7	3.1	276	›› 73.9	3.5	1,074	87.5	2.0
50-59 years	1,314	87.8	1.0	152	84.3	4.1	178	81.8	3.6	874	89.1	1.0
60-69 years	1,661	79.9	1.4	187	60.0	7.2	330	› 76.7	3.6	977	›› 82.0	1.5
70-79 years	1,152	68.7	2.1	113	61.2	6.6	248	64.4	4.1	685	71.1	2.8
80 + years	750	51.3	2.5	69	23.6 *	5.6	190	›› 48.3	4.5	402	››› 56.4	3.5
Total, age adjusted	10,219	81.3	0.6	1,446	76.2	1.7	2,007	75.9	1.3	5,905	››› 83.0	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-94—Percent of males who expressed a desire to lose weight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All males											
Male												
17-19 years	534	23.3	2.9	91	17.2 *	3.7	143	33.8	9.2	235	19.6	2.9
20-29 years	1,641	37.6	1.8	214	22.3	4.5	406	31.8	4.4	875	›››41.2	2.2
30-39 years	1,469	53.3	2.3	176	34.3	8.0	261	41.4	4.5	944	›› 57.0	2.8
40-49 years	1,224	58.7	2.0	131	48.0	7.1	202	36.6	5.5	807	60.9	2.4
50-59 years	859	64.5	2.3	77	55.0 *	9.6	119	51.0	7.1	601	67.1	2.5
60-69 years	1,184	54.9	2.1	118	22.8	7.3	221	› 40.8	6.3	742	›››58.1	1.9
70-79 years	870	41.0	3.0	76	44.4 *	10.5	164	28.7	5.3	558	43.0	3.6
80 + years	699	21.4	1.6	54	4.7 *	3.0	142	›› 18.6	4.2	420	›››24.0	1.8
Total, age adjusted	8,480	49.4	0.8	937	35.4	3.2	1,658	37.7	2.0	5,182	›››51.9	0.9
	Healthy weight males[1]											
Male												
17-19 years	354	7.9	1.6	59	5.5 *	3.3	87	6.1 *	3.0	159	6.3 *	1.4
20-29 years	861	13.8	1.7	112	2.3 *	1.0	213	7.0 *	2.9	451	›››16.9	2.4
30-39 years	572	20.4	2.8	81	5.9 *	4.3	108	15.0 *	6.6	348	›› 22.6	3.3
40-49 years	382	20.9	3.5	51	0.2 *	0.2	68	3.6 *	1.9	240	›››23.6	4.1
50-59 years	247	17.6	3.8	26	3.4 *	3.4	39	26.3 *	15.8	164	› 14.7	3.2
60-69 years	337	13.8	2.5	48	0.0 *	0.0	61	0.6 *	0.4	201	›››15.0	3.0
70-79 years	319	10.5	2.9	31	0.0 *	0.0	64	3.0 *	2.4	193	›››10.8	3.3
80 + years	308	4.2 *	1.1	21	0.0 *	0.0	67	5.6 *	3.3	183	›››3.4 *	0.9
Total, age adjusted	3,380	16.1	1.1	429	2.4 *	1.0	707	›› 9.7	2.5	1,939	›››17.2	1.3
	Overweight and obese males[1]											
Male												
17-19 years	156	68.5	6.0	28	53.5 *	10.0	50	74.5 *	7.4	63	65.1 *	8.2
20-29 years	749	69.9	2.5	99	53.0	7.8	187	63.8	5.9	406	›› 73.2	3.0
30-39 years	879	77.3	3.0	94	68.4	10.4	146	69.1	5.2	587	80.2	3.3
40-49 years	834	78.9	2.6	79	83.8 *	6.0	131	›› 55.4	7.0	563	80.6	2.9
50-59 years	603	82.0	1.9	49	79.6 *	9.1	76	70.2	6.9	434	84.1	1.9
60-69 years	823	72.6	2.2	63	35.4 *	10.9	155	› 63.7	6.5	532	›››75.7	2.0
70-79 years	533	59.0	3.5	41	73.6 *	7.7	93	›› 43.9	8.5	359	61.5	4.1
80 + years	349	38.7	3.1	25	11.5 *	6.9	69	› 32.4	8.1	218	›››42.6	3.2
Total, age adjusted	4,926	72.9	1.1	478	64.3	4.0	907	61.8	2.4	3,162	›› 75.2	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-95—Percent of females who expressed a desire to lose weight: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	501	64.6	3.5	112	54.6	8.9	112	47.4	10.7	230	70.1	3.8
20-29 years	1,521	71.2	1.8	320	59.9	4.5	338	68.6	3.6	765	›› 73.9	2.4
30-39 years	1,695	73.5	1.9	340	71.5	4.2	301	73.0	3.5	953	74.8	2.4
40-49 years	1,350	78.0	1.7	222	75.4	4.6	188	76.7	6.1	846	78.5	2.0
50-59 years	1,010	78.6	1.8	131	72.6	6.4	141	72.1	3.9	654	79.8	2.0
60-69 years	1,181	67.8	1.6	163	53.8	6.7	234	63.2	5.6	661	› 70.1	2.1
70-79 years	994	56.9	1.7	96	48.8	7.1	228	52.9	3.9	559	59.1	2.2
80 + years	792	34.8	1.9	77	16.9 *	3.7	225	›› 34.2	3.5	361	››› 41.2	3.7
Total, age adjusted	9,044	70.7	0.7	1,461	63.6	2.2	1,767	67.2	1.8	5,029	››› 72.7	1.0
	Healthy weight females[1]											
Female												
17-19 years	303	61.4	4.5	63	27.0 *	9.5	64	37.5 *	11.3	149	››› 71.8	4.1
20-29 years	789	65.0	2.7	138	39.9	5.7	163	› 61.5	6.7	442	››› 68.9	3.6
30-39 years	641	57.6	2.6	95	39.2	8.3	82	49.8 *	10.4	433	› 61.4	2.8
40-49 years	415	63.2	3.7	33	33.5 *	12.2	41	48.0 *	14.2	317	› 65.4	4.1
50-59 years	272	55.1	4.2	25	29.8 *	13.9	37	31.5 *	10.1	195	› 59.3	4.4
60-69 years	313	36.9	3.1	33	15.6 *	10.6	50	22.1 *	11.1	205	› 41.6	3.7
70-79 years	348	32.5	3.4	19	33.1 *	19.4	64	20.9 *	8.1	222	34.6	4.3
80 + years	330	13.9	2.0	29	3.0 *	3.0	87	› 15.6 *	5.6	153	››› 17.5	2.8
Total, age adjusted	3,411	54.0	1.4	435	31.7	4.4	588	41.7	3.8	2,116	››› 57.9	1.6
	Overweight and obese females[1]											
Female												
17-19 years	152	95.6 *	2.3	41	98.1 *	1.7	37	90.6 *	9.0	57	96.3 *	3.0
20-29 years	650	94.9	1.3	164	84.1	5.2	152	94.2 *	2.1	284	›› 99.2 *	0.3
30-39 years	1,013	95.2	0.9	236	90.6	2.6	213	90.4	3.3	496	› 97.3 *	1.0
40-49 years	909	95.2	0.7	184	88.0	3.2	145	92.7 *	2.1	511	›› 96.9 *	0.8
50-59 years	711	93.9	0.9	103	86.8 *	4.4	102	91.0 *	2.6	440	95.1	1.0
60-69 years	838	86.6	1.5	124	67.7	7.7	175	› 86.7	3.1	445	›› 88.7	2.0
70-79 years	619	76.4	1.9	72	55.4 *	7.6	155	73.5	4.1	326	›› 80.8	2.4
80 + years	401	58.0	3.3	44	26.6 *	7.1	121	›› 53.8	4.9	184	››› 66.3	5.0
Total, age adjusted	5,293	91.1	0.5	968	81.1	1.6	1,100	›› 88.4	1.2	2,743	››› 93.7	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-96—Percent of persons who tried to lose weight in past 12 months: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All persons											
Both sexes												
17-19 years	1,035	30.3	2.4	203	36.2	7.0	255	32.4	6.1	465	28.6	2.7
20-29 years	3,164	35.9	1.5	534	32.8	3.5	745	27.8	2.7	1,641	38.6	2.0
30-39 years	3,165	43.0	1.7	516	39.6	3.7	562	36.2	3.6	1,898	44.8	1.9
40-49 years	2,572	47.5	1.5	353	41.9	5.1	390	38.7	4.0	1,651	48.7	1.8
50-59 years	1,868	45.9	1.7	208	41.9	5.4	260	39.1	6.0	1,255	46.6	1.6
60-69 years	2,365	40.5	1.4	281	39.2	4.5	454	39.7	4.8	1,404	40.6	1.3
70-79 years	1,866	31.3	1.4	172	29.7	5.2	393	25.3	2.5	1,117	32.2	1.9
80 + years	1,492	14.0	0.8	131	12.9 *	3.4	368	14.7	2.3	781	15.4	1.1
Total, age adjusted	17,527	39.9	0.6	2,398	37.0	1.7	3,427	34.0	1.6	10,212	› 41.2	0.8
	Healthy weight persons[1]											
Both sexes												
17-19 years	657	23.7	2.9	122	20.8 *	6.5	151	23.1	4.8	308	23.4	3.4
20-29 years	1,649	27.2	2.3	250	20.2	5.3	376	21.0	3.8	892	30.0	2.9
30-39 years	1,213	30.4	2.3	176	14.6 *	6.2	190	16.7	5.1	781	›› 34.2	2.7
40-49 years	797	34.4	2.8	84	5.0 *	2.2	109	18.6 *	7.0	557	››› 36.9	3.1
50-59 years	518	23.6	3.0	51	15.0 *	9.1	76	14.4 *	5.5	359	25.4	3.2
60-69 years	649	19.8	1.8	81	11.0 *	5.9	110	15.4 *	6.5	406	21.2	2.0
70-79 years	669	15.5	1.8	50	16.3 *	9.6	129	5.4 *	3.2	415	16.9	2.2
80 + years	639	5.8	1.0	50	3.9 *	3.2	155	6.4 *	2.5	336	7.3	1.6
Total, age adjusted	6,791	26.0	1.1	864	13.4	2.7	1,296	16.4	1.9	4,054	››› 28.3	1.2
	Overweight and obese persons[1]											
Both sexes												
17-19 years	308	55.8	4.2	69	67.0 *	10.0	87	58.3	11.8	120	54.2	6.1
20-29 years	1,402	52.2	2.2	263	49.2	7.7	340	40.6	4.1	692	55.7	2.5
30-39 years	1,893	55.4	2.0	330	58.6	5.4	359	52.9	4.0	1,084	55.8	2.2
40-49 years	1,741	57.7	2.2	263	55.4	5.8	276	49.8	4.6	1,072	58.9	2.8
50-59 years	1,314	56.6	2.1	152	52.4	7.4	178	53.7	7.4	874	56.7	2.0
60-69 years	1,662	51.3	1.6	187	51.0	6.6	330	53.7	4.8	978	50.9	1.6
70-79 years	1,152	42.3	1.8	113	34.9	6.3	248	37.2	3.5	685	43.2	2.5
80 + years	750	22.9	1.4	69	21.1 *	5.5	190	23.5	3.4	402	23.7	1.8
Total, age adjusted	10,222	52.7	0.7	1,446	51.7	2.2	2,008	48.1	2.2	5,907	53.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-97—Percent of males who tried to lose weight in past 12 months: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All males											
Male												
17-19 years	534	14.6	2.2	91	10.7 *	2.8	143	25.4 *	8.2	235	12.0	2.4
20-29 years	1,643	21.9	1.4	214	17.5	3.8	407	16.8	2.4	876	23.9	1.9
30-39 years	1,470	31.4	2.3	176	18.6	5.4	261	18.2	4.5	945	›› 34.1	2.4
40-49 years	1,223	36.6	2.4	131	28.2	6.8	202	21.2	4.9	806	38.3	2.5
50-59 years	858	35.5	2.5	77	31.3 *	8.3	119	25.2 *	8.3	601	36.2	2.7
60-69 years	1,185	33.0	1.8	118	22.7	7.2	221	27.1	6.1	743	34.3	1.9
70-79 years	872	25.9	2.3	76	28.5 *	10.5	165	18.9	4.4	558	26.5	2.8
80 + years	699	12.0	1.4	54	9.5 *	3.8	142	11.2 *	3.6	420	13.6	1.4
Total, age adjusted	8,484	29.3	0.7	937	22.5	2.1	1,660	20.6	2.3	5,184	››› 30.7	0.7
	Healthy weight males[1]											
Male												
17-19 years	354	6.6	1.8	59	4.1 *	1.9	87	9.9 *	5.4	159	5.0 *	2.2
20-29 years	860	8.6	1.8	112	4.7 *	4.6	213	10.3	3.7	450	8.8	2.2
30-39 years	572	15.9	2.8	81	7.9 *	6.5	108	4.9 *	4.3	348	18.3	3.4
40-49 years	382	16.6	3.3	51	2.6 *	1.6	68	1.3 *	1.4	240	››› 18.7	4.0
50-59 years	246	9.0	2.3	26	6.7 *	4.1	39	3.2 *	3.2	164	9.5 *	2.5
60-69 years	337	13.8	2.9	48	0.0 *	0.0	61	4.8 *	4.6	201	››› 16.9	3.8
70-79 years	321	10.6	2.3	31	10.8 *	10.0	65	1.7 *	1.7	193	10.7	2.3
80 + years	308	5.0 *	1.3	21	5.0 *	5.6	67	3.2 *	2.1	183	6.6 *	2.0
Total, age adjusted	3,380	12.1	1.0	429	5.2 *	1.9	708	4.8	1.4	1,938	››› 13.4	1.2
	Overweight and obese males[1]											
Male												
17-19 years	156	38.4	5.6	28	31.1 *	8.6	50	49.1 *	15.8	63	36.4	8.1
20-29 years	752	39.9	2.7	99	37.5 *	12.6	188	25.5	5.0	408	43.5	3.1
30-39 years	880	42.8	2.8	94	31.4 *	8.8	146	32.0	6.3	588	44.8	2.8
40-49 years	833	47.5	3.2	79	47.6 *	10.4	131	32.6	6.4	562	48.7	3.6
50-59 years	603	45.2	3.4	49	43.1 *	12.2	76	41.7 *	12.8	434	44.8	3.5
60-69 years	824	41.4	2.4	63	35.1 *	10.9	155	40.0	7.6	533	41.5	2.5
70-79 years	533	35.0	3.1	41	40.9 *	14.0	93	29.5	6.5	359	35.7	3.8
80 + years	349	19.5	2.9	25	18.3 *	6.7	69	19.7 *	6.9	218	20.5	2.7
Total, age adjusted	4,930	41.6	1.0	478	38.0	3.9	908	33.4	3.4	3,165	42.8	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-98—Percent of females who tried to lose weight in past 12 months: Age 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	501	48.3	3.2	112	49.1	9.2	112	40.0	8.0	230	48.8	3.9
20-29 years	1,521	52.0	2.2	320	42.1	4.7	338	41.3	4.2	765	› 56.6	2.9
30-39 years	1,695	55.3	2.2	340	53.3	4.3	301	51.2	4.5	953	57.0	2.6
40-49 years	1,349	57.9	2.2	222	50.3	7.2	188	57.2	5.6	845	59.0	2.6
50-59 years	1,010	55.6	2.0	131	48.0	6.6	141	52.3	5.9	654	56.7	2.2
60-69 years	1,180	46.8	2.0	163	45.0	5.2	233	49.9	5.6	661	46.6	2.1
70-79 years	994	35.2	1.9	96	30.4	5.5	228	28.2	3.1	559	37.1	2.8
80 + years	793	15.0	1.1	77	14.2 *	4.3	226	16.0	2.4	361	16.6	1.8
Total, age adjusted	9,043	50.8	1.0	1,461	45.5	2.3	1,767	46.7	1.6	5,028	›› 52.5	1.2
	Healthy weight females[1]											
Female												
17-19 years	303	45.2	4.3	63	31.6 *	10.0	64	37.2 *	8.1	149	47.4	5.5
20-29 years	789	46.5	3.4	138	32.3	6.8	163	34.4	5.9	442	› 51.0	4.3
30-39 years	641	43.4	2.8	95	22.0 *	7.3	82	29.0 *	9.2	433	›› 48.0	3.2
40-49 years	415	47.5	3.6	33	9.0 *	5.4	41	› 39.6 *	13.2	317	››› 49.3	3.7
50-59 years	272	34.4	4.1	25	21.2 *	14.2	37	28.7 *	11.2	195	36.2	4.5
60-69 years	312	24.2	3.0	33	15.9 *	8.3	49	27.1 *	12.7	205	24.3	3.0
70-79 years	348	18.6	3.0	19	22.2 *	17.8	64	7.2 *	4.8	222	21.3	3.7
80 + years	331	6.3 *	1.4	29	3.5 *	3.6	88	7.7 *	3.4	153	7.9 *	2.6
Total, age adjusted	3,411	38.2	1.7	435	20.2	3.6	588	› 29.7	2.8	2,116	››› 40.9	2.0
	Overweight and obese females[1]											
Female												
17-19 years	152	77.0	4.5	41	78.2 *	8.9	37	73.9 *	11.0	57	78.3 *	6.7
20-29 years	650	70.8	2.7	164	54.9	8.0	152	61.6	5.1	284	›› 79.3	3.0
30-39 years	1,013	71.7	2.6	236	71.1	4.9	213	67.3	4.1	496	73.0	3.2
40-49 years	908	70.0	2.8	184	58.8	7.8	145	67.2	5.4	510	72.8	3.4
50-59 years	711	68.7	2.0	103	57.2	8.7	102	63.3	7.2	440	70.9	2.1
60-69 years	838	60.4	2.4	124	56.0	7.2	175	64.2	5.9	445	60.9	2.7
70-79 years	619	48.0	2.2	72	32.1 *	5.6	155	40.6	4.2	326	›› 50.9	3.0
80 + years	401	24.8	2.1	44	21.8 *	6.5	121	24.9	3.7	184	26.0	3.4
Total, age adjusted	5,292	66.1	0.9	968	57.5	2.6	1,100	61.9	2.3	2,742	››› 69.1	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Excludes pregnant and postpartum women. Total includes persons with missing food stamp participation or income.

Table D-99—Percent of persons with iron deficiency[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,339	8.8	1.2	477	9.7	1.9	263	14.2	3.4	539	6.8	1.4
3-5 years	2,334	3.4	0.6	800	4.5 *	1.3	510	4.0 *	0.9	931	2.9	0.8
6-11 years	2,813	4.1	0.7	838	5.3	1.8	599	4.7 *	1.3	1,219	3.7	0.9
12-19 years	3,808	5.7	0.7	908	9.7	2.7	879	7.6	1.7	1,711	› 4.3	0.7
20-29 years	6,178	4.2	0.4	1,122	9.2	1.7	1,438	5.4	1.4	3,180	››› 3.1	0.5
30-39 years	6,008	5.8	0.6	994	12.3	2.6	1,070	9.9	2.5	3,598	›› 4.5	0.5
40-49 years	4,860	8.4	0.7	666	13.4	4.1	738	9.0	1.8	3,114	7.9	0.9
50-59 years	3,530	4.3	0.4	384	8.0 *	3.1	504	10.5	3.2	2,378	3.2	0.4
60-69 years	4,400	4.3	0.5	520	8.4	3.0	836	4.1	1.7	2,640	4.0	0.5
70-79 years	3,442	5.4	0.9	320	9.4 *	3.3	722	4.9	1.6	2,062	5.1	1.0
80 + years	2,692	8.4	1.0	230	11.4 *	3.4	664	› 4.4 *	1.1	1,420	8.7	1.2
Total, age adjusted	41,404	5.6	0.3	7,259	9.7	1.1	8,223	7.4	0.7	22,792	››› 4.7	0.2
Male												
1-2 years	674	8.1	1.2	251	11.5 *	2.6	130	14.8 *	5.7	261	› 4.6 *	1.2
3-5 years	1,139	3.8	0.9	385	4.9 *	1.7	247	4.4 *	1.7	460	3.4 *	1.3
6-11 years	1,442	3.4	0.9	416	2.8 *	0.7	301	4.1 *	2.0	643	3.5	1.3
12-19 years	1,832	1.2 *	0.3	412	3.1 *	0.8	442	› 0.8 *	0.3	805	› 1.1 *	0.4
20-29 years	3,064	0.5 *	0.3	398	0.1 *	0.1	758	1.7 *	1.4	1,644	0.4 *	0.3
30-39 years	2,736	0.9 *	0.3	336	0.0	0.0	480	1.7 *	1.4	1,766	›› 0.9 *	0.3
40-49 years	2,296	1.8	0.7	248	1.6 *	0.8	380	0.8 *	0.4	1,508	2.0	0.9
50-59 years	1,638	2.7	0.7	142	13.4 *	7.1	232	9.9 *	5.4	1,144	1.1 *	0.4
60-69 years	2,220	2.5	0.8	218	1.3 *	1.0	410	4.7 *	2.2	1,408	2.2	0.8
70-79 years	1,594	4.7	0.9	134	10.8 *	6.9	302	5.2 *	2.1	1,022	4.1	1.0
80 + years	1,280	6.5	1.4	96	8.3 *	5.0	254	3.5 *	1.8	780	7.4	1.8
Total, age adjusted	19,915	2.3	0.2	3,036	3.9	0.9	3,936	3.6	0.8	11,441	2.0	0.3
Female												
1-2 years	665	9.6	1.7	226	7.7 *	2.9	133	13.7 *	3.4	278	9.1	2.4
3-5 years	1,195	3.0	0.6	415	4.1 *	1.5	263	3.5 *	1.0	471	2.4 *	0.8
6-11 years	1,371	4.9	1.1	422	7.6 *	3.3	298	5.3 *	1.7	576	4.0	1.4
12-19 years	1,976	10.4	1.3	496	14.4	4.7	437	14.0	3.3	906	7.8	1.4
20-29 years	3,114	8.2	0.8	724	13.8	2.4	680	9.7	2.0	1,536	›› 6.4	1.0
30-39 years	3,272	10.9	1.2	658	20.4	3.8	590	16.5	4.3	1,832	›› 8.6	1.0
40-49 years	2,564	14.8	1.3	418	20.7	6.3	358	17.6	3.7	1,606	13.7	1.5
50-59 years	1,892	5.8	0.7	242	4.8 *	2.3	272	11.2 *	3.6	1,234	5.2	0.8
60-69 years	2,180	5.9	0.8	302	10.8 *	4.0	426	3.6 *	1.7	1,232	5.7	0.8
70-79 years	1,848	6.0	1.1	186	8.6 *	3.0	420	4.8 *	2.1	1,040	6.0	1.4
80 + years	1,412	9.4	1.1	134	12.6 *	4.6	410	4.7 *	1.3	640	9.6	1.5
Total, age adjusted	21,489	8.9	0.4	4,223	13.3	1.4	4,287	11.2	1.0	11,351	››› 7.6	0.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Iron deficiency is indicated by at least 2 of the following: low serum transferrin saturation, high erythrocyte protoporphorin (EPP), and low serum ferritin. See appendix B.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-100—Percent of persons with low serum ferritin[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,805	12.9	1.2	623	11.8	2.1	341	› 18.4	3.1	742	11.9	1.3
3-5 years	2,638	5.5	0.7	898	5.3 *	1.3	561	5.4	1.0	1,064	5.7	1.0
6-11 years	2,881	6.1	1.0	855	6.0 *	2.3	614	5.2	1.4	1,249	6.6	1.3
12-19 years	3,893	7.1	0.7	923	11.4	3.0	898	6.6	1.4	1,757	6.1	0.8
20-29 years	6,268	4.7	0.6	1,132	10.7	2.0	1,456	›› 3.9	0.9	3,238	›› 3.8	0.7
30-39 years	6,118	5.8	0.6	1,012	9.3	2.1	1,090	10.8	2.5	3,664	4.9	0.6
40-49 years	4,942	8.7	0.8	672	14.7	5.3	750	6.4	1.3	3,178	8.5	0.9
50-59 years	3,586	2.9	0.4	384	3.9 *	1.8	510	4.9 *	2.0	2,418	2.4	0.4
60-69 years	4,502	2.0	0.5	530	4.5 *	2.3	858	1.4 *	0.9	2,700	1.9	0.5
70-79 years	3,506	2.3	0.5	322	3.8 *	2.6	726	1.2 *	0.8	2,114	2.4	0.7
80 + years	2,734	3.0	0.5	232	9.0 *	3.8	676	1.9 *	0.7	1,438	2.2	0.5
Total, age adjusted	42,873	5.6	0.2	7,583	8.9	1.2	8,480	› 6.0	0.5	23,562	›› 5.1	0.2
Male												
1-2 years	920	13.9	1.6	340	13.8 *	3.4	166	23.5	5.3	365	11.6	1.9
3-5 years	1,283	6.3	1.0	429	4.6 *	1.4	277	6.2 *	1.9	522	7.2	1.5
6-11 years	1,466	4.6	0.9	419	3.2 *	1.6	306	5.8 *	2.3	656	5.0	1.2
12-19 years	1,881	1.7	0.4	419	3.0 *	0.9	458	1.8 *	0.8	828	1.7 *	0.5
20-29 years	3,114	0.4 *	0.3	404	0.2 *	0.2	768	1.4 *	1.3	1,676	0.3 *	0.3
30-39 years	2,792	1.2	0.3	342	1.6 *	1.4	494	4.5 *	2.8	1,800	0.8 *	0.2
40-49 years	2,338	1.7	0.6	252	0.3 *	0.3	384	1.1 *	0.7	1,542	1.9	0.8
50-59 years	1,660	0.4 *	0.2	142	1.0 *	0.7	234	0.0	0.0	1,162	0.4 *	0.2
60-69 years	2,270	1.7	0.5	224	1.2 *	1.0	420	0.8 *	0.4	1,436	1.7	0.7
70-79 years	1,630	2.1	0.6	136	7.1 *	6.7	302	1.7 *	1.0	1,054	1.6 *	0.5
80 + years	1,298	1.9 *	0.5	98	5.6 *	4.5	258	1.0 *	1.0	788	1.6 *	0.6
Total, age adjusted	20,652	2.1	0.2	3,205	2.4	0.5	4,067	2.9	0.6	11,829	2.0	0.2
Female												
1-2 years	885	11.8	1.8	283	9.2 *	2.9	175	13.6 *	3.2	377	12.2	2.7
3-5 years	1,355	4.6	0.8	469	5.8 *	2.3	284	4.5 *	1.2	542	4.0 *	1.0
6-11 years	1,415	7.6	1.8	436	8.6 *	4.1	308	4.6 *	1.7	593	8.4	2.4
12-19 years	2,012	12.9	1.4	504	17.4	5.0	440	11.4	2.8	929	10.9	1.7
20-29 years	3,154	9.4	1.0	728	16.2	2.9	688	›› 6.8	1.4	1,562	›› 8.0	1.3
30-39 years	3,326	10.7	1.2	670	14.3	3.2	596	16.1	3.8	1,864	9.6	1.4
40-49 years	2,604	15.4	1.5	420	23.6	7.7	366	11.8	2.9	1,636	15.0	1.6
50-59 years	1,926	5.3	0.7	242	5.6 *	2.9	276	9.8	3.9	1,256	4.4	0.9
60-69 years	2,232	2.2	0.7	306	5.7 *	3.0	438	1.8 *	1.6	1,264	2.2	0.8
70-79 years	1,876	2.5	0.7	186	1.9 *	1.8	424	1.0 *	0.8	1,060	3.2	1.1
80 + years	1,436	3.6	0.8	134	10.3 *	5.1	418	2.2 *	1.1	650	2.6 *	0.8
Total, age adjusted	22,221	9.0	0.4	4,378	12.9	1.9	4,413	› 8.9	0.9	11,733	› 8.4	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Criteria for low serum ferritin varies by age and gender. See appendix B.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-101—Percent of persons with high free erythrocyte protoporphorin [1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,877	10.8	0.89	645	14.9	2.88	359	12.3	2.78	771	8.3	1.17
3-5 years	2,690	5.8	0.75	917	9.4	1.88	573	6.0 *	1.57	1,083	›› 3.9	0.78
6-11 years	2,922	5.2	0.75	872	8.3	1.76	618	5.3 *	1.02	1,267	› 4.3	0.91
12-19 years	3,924	5.7	0.43	931	8.3	1.72	903	9.1	1.76	1,774	› 4.1	0.52
20-29 years	6,312	4.9	0.59	1,132	7.6	1.50	1,472	5.6	1.00	3,258	› 4.1	0.66
30-39 years	6,166	7.0	0.70	1,012	12.3	2.28	1,098	11.2	2.64	3,700	›› 5.6	0.75
40-49 years	4,964	9.7	0.67	678	14.3	2.17	754	16.0	3.47	3,186	› 8.7	0.76
50-59 years	3,622	8.6	0.94	396	19.9	4.75	510	12.3	3.38	2,438	›› 7.1	1.15
60-69 years	4,544	10.4	0.98	530	13.3	3.33	854	10.8	2.56	2,736	10.1	1.10
70-79 years	3,528	14.6	1.43	324	20.1	4.33	740	16.0	2.77	2,118	13.9	1.66
80 + years	2,768	18.2	1.57	234	16.9	4.41	688	20.0	3.04	1,456	17.2	2.04
Total, age adjusted	43,317	8.2	0.29	7,671	12.7	0.94	8,569	10.9	1.06	23,787	››› 7.0	0.31
Male												
1-2 years	962	9.3	1.33	355	13.6	3.65	176	16.2 *	4.99	380	› 5.0 *	1.13
3-5 years	1,305	5.7	1.10	437	9.4	3.37	283	5.7 *	1.60	528	3.8 *	1.31
6-11 years	1,491	5.0	0.96	430	6.9 *	1.82	307	4.1 *	1.54	668	4.6	1.28
12-19 years	1,896	2.4	0.43	423	4.9 *	1.35	460	› 1.7 *	0.51	836	2.4 *	0.55
20-29 years	3,134	1.1	0.33	402	1.5 *	0.50	776	1.4 *	0.42	1,688	0.9 *	0.43
30-39 years	2,814	1.4	0.37	338	4.9 *	3.39	500	3.4 *	2.40	1,816	1.0 *	0.23
40-49 years	2,342	3.6	0.87	254	7.0 *	3.10	382	10.5	4.71	1,542	2.7	0.83
50-59 years	1,674	5.7	1.13	148	19.3 *	8.08	234	10.6 *	5.46	1,170	4.0	1.12
60-69 years	2,296	7.5	1.09	222	7.8 *	4.50	418	11.3	3.76	1,462	6.8	1.21
70-79 years	1,642	12.1	1.89	138	16.4 *	7.50	308	14.4	3.84	1,060	11.2	2.32
80 + years	1,312	15.0	2.01	98	10.2 *	5.67	264	15.4	3.08	796	16.4	2.56
Total, age adjusted	20,868	4.6	0.32	3,245	8.1	1.36	4,108	7.0	1.18	11,946	›› 3.9	0.34
Female												
1-2 years	915	12.5	1.25	290	16.6	3.55	183	8.7 *	2.18	391	11.8	2.07
3-5 years	1,385	6.0	0.97	480	9.4	1.82	290	6.5 *	2.75	555	› 4.0 *	1.25
6-11 years	1,431	5.5	1.09	442	9.5	2.51	311	6.3 *	1.80	599	› 4.0 *	1.21
12-19 years	2,028	9.3	0.88	508	10.8	2.51	443	16.5	3.63	938	6.1	1.00
20-29 years	3,178	9.1	1.06	730	10.7	2.21	696	10.5	2.21	1,570	7.8	1.14
30-39 years	3,352	12.8	1.37	674	17.0	2.98	598	17.8	4.29	1,884	10.8	1.51
40-49 years	2,622	15.5	1.00	424	18.8	3.81	372	21.6	5.23	1,644	14.5	1.29
50-59 years	1,948	11.4	1.39	248	20.2	4.88	276	14.0	4.41	1,268	› 10.2	1.73
60-69 years	2,248	12.9	1.52	308	15.2	4.84	436	10.5	3.35	1,274	13.2	1.90
70-79 years	1,886	16.4	1.68	186	22.2	5.37	432	16.7	3.65	1,058	16.2	2.04
80 + years	1,456	20.0	1.84	136	19.5 *	5.21	424	21.7	3.70	660	17.8	2.41
Total, age adjusted	22,449	11.7	0.41	4,426	15.4	1.04	4,461	14.6	1.41	11,841	››› 10.2	0.46

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] High free erythrocyte protoporphorin is identified as > 80 (age 1-2) and > 70 (age > 2). Source: *Healthy People 2010* (U.S. DHHS, 2000a).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-102—Percent of persons with low transferrin saturation[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,428	21.1	1.4	500	24.5	2.3	283	29.0	4.8	579	18.0	2.2
3-5 years	2,416	23.2	1.6	822	28.0	3.4	527	19.5	3.3	966	22.1	2.0
6-11 years	2,871	26.0	1.6	858	30.1	3.9	609	25.2	2.9	1,243	25.5	2.1
12-19 years	3,881	19.0	1.1	918	26.3	3.0	899	22.0	2.9	1,750	›› 17.2	1.4
20-29 years	6,266	14.7	1.1	1,132	21.9	2.7	1,450	19.3	2.8	3,242	›› 12.4	1.3
30-39 years	6,102	15.0	1.2	1,014	25.2	2.7	1,082	20.9	3.5	3,654	››› 13.0	1.3
40-49 years	4,936	15.4	1.2	676	21.0	4.7	746	17.7	2.4	3,172	14.4	1.4
50-59 years	3,594	14.4	1.2	390	24.8	5.1	510	19.2	4.2	2,420	› 13.5	1.3
60-69 years	4,504	13.5	1.1	530	17.8	3.7	858	15.8	2.7	2,700	12.8	1.1
70-79 years	3,500	14.0	1.3	322	25.2	4.9	732	› 14.9	2.6	2,104	›› 12.7	1.6
80 + years	2,742	17.0	1.5	234	20.2	4.5	676	14.4	2.2	1,446	17.4	1.6
Total, age adjusted	42,240	16.8	0.5	7,396	24.0	1.4	8,372	›› 19.7	1.0	23,276	››› 15.4	0.6
Male												
1-2 years	715	22.1	1.8	264	29.9	3.0	139	25.0	5.9	277	›› 18.3	2.6
3-5 years	1,178	24.8	2.2	394	31.4	6.2	258	24.2	4.4	477	21.9	2.6
6-11 years	1,464	26.3	2.2	423	31.7	5.1	305	27.0	5.4	653	25.3	2.8
12-19 years	1,880	14.6	1.5	416	19.6	3.8	459	15.7	4.0	828	14.3	2.1
20-29 years	3,114	9.8	1.2	402	9.8	4.6	764	13.7	3.1	1,682	8.7	1.3
30-39 years	2,782	6.3	1.2	340	7.6 *	4.0	486	6.8 *	2.3	1,800	6.0	1.3
40-49 years	2,340	7.2	1.2	254	7.9 *	2.3	384	8.3 *	2.8	1,542	7.3	1.4
50-59 years	1,662	10.6	1.5	144	25.7 *	7.8	234	17.0	5.8	1,162	› 9.2	1.6
60-69 years	2,272	9.3	1.5	224	16.4 *	4.8	418	10.5	3.5	1,440	9.0	1.6
70-79 years	1,626	13.4	1.8	136	39.8 *	9.5	304	› 15.1	4.6	1,048	›› 11.5	2.0
80 + years	1,300	13.6	2.0	98	13.4 *	6.1	258	16.8	3.6	790	13.6	2.5
Total, age adjusted	20,333	12.2	0.6	3,095	17.9	1.6	4,009	› 14.3	1.3	11,699	››› 11.4	0.7
Female												
1-2 years	713	20.0	2.2	236	18.6	3.5	144	32.9	7.2	302	17.6	3.2
3-5 years	1,238	21.5	2.3	428	25.0	3.7	269	›› 13.8	3.3	489	22.2	2.9
6-11 years	1,407	25.8	2.3	435	28.7	4.2	304	23.6	4.9	590	25.7	2.7
12-19 years	2,001	23.9	1.3	502	31.0	5.0	440	28.4	4.6	922	20.5	1.8
20-29 years	3,152	20.1	1.5	730	28.2	3.2	686	25.7	4.4	1,560	›› 16.7	2.2
30-39 years	3,320	24.2	1.7	674	36.7	4.7	596	32.4	5.6	1,854	›› 21.0	2.1
40-49 years	2,596	23.2	1.8	422	29.2	7.4	362	27.6	4.0	1,630	21.6	2.2
50-59 years	1,932	18.0	2.0	246	24.3	6.0	276	21.4	5.8	1,258	17.7	2.1
60-69 years	2,232	17.1	1.7	306	18.3	5.0	440	19.9	4.2	1,260	16.4	1.8
70-79 years	1,874	14.5	1.5	186	16.9 *	3.6	428	14.8	3.2	1,056	13.8	1.9
80 + years	1,442	18.8	1.7	136	22.8 *	5.7	418	13.5	2.5	656	20.0	2.1
Total, age adjusted	21,907	21.4	0.6	4,301	27.6	1.8	4,363	24.9	1.5	11,577	››› 19.7	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Criteria for low transferrin saturation varies by age and gender. See appendix B.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-103—Percent of persons with iron deficiency anemia[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,339	2.7	0.5	477	5.0	1.3	263	2.5 *	1.1	539	›› 1.4 *	0.5
3-5 years	2,334	0.5 *	0.2	800	1.0 *	0.4	510	› 0.1 *	>0	931	0.5 *	0.3
6-11 years	2,813	0.4 *	0.1	838	0.5 *	0.2	599	0.4 *	0.2	1,219	0.4 *	0.2
12-19 years	3,808	1.4	0.2	908	2.1 *	0.5	879	2.4	1.0	1,711	0.9 *	0.3
20-29 years	6,178	1.8	0.2	1,122	3.2	0.7	1,438	› 1.4	0.3	3,180	1.7	0.3
30-39 years	6,008	2.8	0.4	994	4.1	0.9	1,070	5.6	1.6	3,598	2.3	0.5
40-49 years	4,860	3.7	0.5	666	5.8	1.3	738	6.8	1.9	3,114	3.3	0.6
50-59 years	3,530	1.7	0.3	384	1.8 *	1.0	504	4.9	1.7	2,378	1.2	0.4
60-69 years	4,400	2.2	0.4	520	6.1	2.7	836	1.7 *	0.8	2,640	2.0	0.4
70-79 years	3,442	1.6	0.3	320	6.2 *	2.9	722	1.8 *	0.7	2,062	1.2	0.3
80 + years	2,692	4.4	0.6	230	6.0 *	2.2	664	2.7 *	0.9	1,420	4.4	0.8
Total, age adjusted	41,404	2.1	0.1	7,259	3.7	0.5	8,223	3.4	0.4	22,792	››› 1.8	0.2
Male												
1-2 years	674	3.2	0.8	251	7.0 *	2.4	130	›› 0.6 *	0.4	261	› 1.7 *	0.7
3-5 years	1,139	0.7 *	0.3	385	1.2 *	0.6	247	>0	>0	460	0.8 *	0.5
6-11 years	1,442	0.5 *	0.2	416	0.8 *	0.4	301	0.1 *	0.1	643	0.6 *	0.3
12-19 years	1,832	0.1 *	0.1	412	0.9 *	0.5	442	0.2 *	0.2	805	>0	>0
20-29 years	3,064	0.2 *	0.2	398	0.0	0.0	758	0.1 *	0.1	1,644	0.3 *	0.3
30-39 years	2,736	0.4 *	0.2	336	0.0	0.0	480	1.7 *	1.4	1,766	0.4 *	0.3
40-49 years	2,296	0.5 *	0.3	248	0.9 *	0.6	380	0.4 *	0.2	1,508	0.5 *	0.3
50-59 years	1,638	1.0 *	0.4	142	3.6 *	2.6	232	1.7 *	1.1	1,144	0.6 *	0.3
60-69 years	2,220	1.9	0.7	218	1.3 *	1.0	410	3.2 *	1.7	1,408	1.6	0.8
70-79 years	1,594	2.3	0.5	134	10.6 *	6.9	302	2.5 *	1.1	1,022	1.4 *	0.4
80 + years	1,280	5.2	1.1	96	7.9 *	5.0	254	3.4 *	1.8	780	5.7	1.4
Total, age adjusted	19,915	0.9	0.1	3,036	2.0	0.6	3,936	1.1	0.3	11,441	0.8	0.1
Female												
1-2 years	665	2.3 *	0.7	226	2.8 *	1.0	133	4.4 *	2.0	278	1.0 *	0.6
3-5 years	1,195	0.3 *	0.2	415	0.9 *	0.6	263	0.1 *	0.1	471	0.1 *	0.1
6-11 years	1,371	0.3 *	0.2	422	0.3 *	0.2	298	0.6 *	0.3	576	0.3 *	0.2
12-19 years	1,976	2.6	0.5	496	3.0 *	0.8	437	4.6	1.8	906	1.9	0.6
20-29 years	3,114	3.5	0.4	724	4.8	1.1	680	2.9	0.7	1,536	3.4	0.6
30-39 years	3,272	5.3	0.8	658	6.8	1.5	590	8.8	2.5	1,832	4.5	1.0
40-49 years	2,564	6.8	1.1	418	8.9	2.0	358	13.5	3.8	1,606	6.1	1.3
50-59 years	1,892	2.3	0.4	242	0.8 *	0.5	272	› 8.1	3.2	1,234	1.9	0.6
60-69 years	2,180	2.6	0.6	302	7.7	3.6	426	› 0.6 *	0.4	1,232	2.2	0.6
70-79 years	1,848	1.1	0.4	186	3.8 *	2.6	420	1.4 *	0.8	1,040	1.0 *	0.5
80 + years	1,412	4.0	0.7	134	5.2 *	2.5	410	2.4 *	1.0	640	3.5	1.1
Total, age adjusted	21,489	3.4	0.3	4,223	4.6	0.5	4,287	5.7	0.6	11,351	›› 3.0	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Iron deficiency anemia is defined as iron deficiency and low hemoglobin. See appendix B.
>0 Value to small to display.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-104—Percent of persons with low hemoglobin[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,789	10.9	1.0	625	16.5	1.8	338	› 11.1	2.3	728	››› 8.0	1.1
3-5 years	2,618	6.0	0.7	898	9.8	1.4	563	››› 4.2 *	1.2	1,049	›› 4.6	0.9
6-11 years	2,891	5.4	0.7	868	8.0	1.4	611	6.1	1.4	1,249	›› 4.3	0.8
12-19 years	3,877	6.1	0.7	929	10.5	1.6	887	7.0	1.7	1,748	››› 5.2	0.8
20-29 years	6,288	6.0	0.8	1,132	11.0	1.9	1,464	›› 5.4	1.0	3,242	› 5.5	1.0
30-39 years	6,128	8.2	0.8	1,014	13.0	1.5	1,088	14.8	3.0	3,676	››› 6.9	0.9
40-49 years	4,924	8.8	1.0	676	12.8	1.8	752	15.8	2.5	3,150	› 7.9	1.0
50-59 years	3,604	7.1	0.8	396	10.4	2.5	506	17.4	2.9	2,430	5.8	0.8
60-69 years	4,484	10.2	0.8	526	16.5	3.0	850	10.5	2.0	2,690	› 9.7	1.0
70-79 years	3,502	12.2	0.9	324	29.6	3.6	738	›› 15.6	2.6	2,094	›››10.6	1.0
80 + years	2,752	22.8	1.8	232	34.8	4.6	680	› 23.6	2.1	1,454	›› 21.1	2.1
Total, age adjusted	42,857	8.2	0.5	7,620	13.6	0.8	8,477	11.8	0.9	23,510	››› 7.2	0.5
Male												
1-2 years	931	11.6	1.3	345	17.2	2.5	167	11.7 *	3.2	369	›› 8.2	1.4
3-5 years	1,281	5.5	0.7	435	10.3	1.7	275	› 4.2 *	1.6	517	›› 4.3 *	1.0
6-11 years	1,482	5.0	0.8	430	8.5	1.8	305	5.5 *	1.7	661	› 3.8 *	0.9
12-19 years	1,864	4.0	0.7	421	7.9	2.4	448	7.2	2.8	821	› 2.8 *	0.7
20-29 years	3,124	2.2	0.6	404	7.9	3.1	770	› 1.6 *	0.5	1,680	1.9	0.7
30-39 years	2,802	4.6	0.9	342	7.2	2.2	496	9.2	2.2	1,806	3.9	1.1
40-49 years	2,328	5.7	0.9	250	7.2 *	2.0	382	12.5	3.5	1,532	5.1	1.0
50-59 years	1,666	7.6	1.1	148	15.6	5.0	232	16.5	4.9	1,166	6.0	1.0
60-69 years	2,260	12.4	1.0	220	19.0	6.1	414	16.2	4.3	1,436	11.6	1.0
70-79 years	1,624	18.3	1.5	138	41.8	7.7	310	› 23.5	3.5	1,038	›› 16.4	1.9
80 + years	1,302	32.5	2.2	96	41.7	7.2	260	36.8	3.7	792	31.3	2.8
Total, age adjusted	20,664	7.3	0.4	3,229	13.0	1.4	4,059	11.1	1.0	11,818	››› 6.3	0.4
Female												
1-2 years	858	10.0	1.2	280	15.5	2.8	171	10.5 *	2.9	359	› 7.8 *	1.6
3-5 years	1,337	6.4	1.3	463	9.3	2.0	288	› 4.2 *	1.5	532	4.9 *	1.8
6-11 years	1,409	5.8	0.9	438	7.4	1.6	306	6.7 *	1.7	588	4.8 *	1.0
12-19 years	2,013	8.4	1.1	508	12.4	2.2	439	6.7	1.9	927	7.8	1.4
20-29 years	3,164	10.0	1.2	728	12.6	2.6	694	9.6	2.0	1,562	9.7	1.5
30-39 years	3,326	12.0	1.3	672	16.8	1.9	592	19.3	5.0	1,870	› 10.4	1.5
40-49 years	2,596	11.7	1.4	426	16.3	2.5	370	19.2	4.0	1,618	10.6	1.7
50-59 years	1,938	6.7	1.0	248	7.3 *	2.6	274	› 18.3	4.9	1,264	5.6	1.1
60-69 years	2,224	8.3	1.2	306	15.6	3.7	436	› 6.1 *	1.8	1,254	7.9	1.6
70-79 years	1,878	7.8	1.0	186	22.5	4.4	428	› 12.1	2.6	1,056	››› 5.6	1.1
80 + years	1,450	17.5	2.3	136	32.2	6.1	420	› 18.7	2.5	662	›› 13.8	2.7
Total, age adjusted	22,193	9.5	0.6	4,391	14.2	0.9	4,418	13.0	1.4	11,692	››› 8.3	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Criteria for low hemoglobin varies by age, gender, and smoking status. See appendix B.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-105—Percent of persons with low hematocrit[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,789	8.6	0.9	625	12.2	1.5	338	11.0	2.5	728	›› 6.6	1.1
3-5 years	2,618	6.1	0.7	898	8.8	1.4	563	›› 4.1 *	0.8	1,049	› 5.8	0.9
6-11 years	2,891	5.4	0.7	868	6.9	1.4	611	5.3	1.1	1,249	5.0	0.8
12-19 years	3,877	5.7	0.6	929	9.5	1.4	887	5.9	1.6	1,748	›› 5.1	0.8
20-29 years	6,288	5.1	0.7	1,132	9.3	1.4	1,464	› 5.4	1.4	3,242	›› 4.5	0.8
30-39 years	6,128	7.2	0.8	1,014	11.1	1.5	1,088	13.0	3.0	3,676	›› 6.2	0.9
40-49 years	4,924	7.1	0.7	676	9.9	1.7	752	13.4	2.2	3,150	6.2	0.8
50-59 years	3,604	6.9	0.8	396	10.8	3.1	506	12.6	2.7	2,430	6.2	0.8
60-69 years	4,482	9.6	0.8	526	9.7	2.6	850	9.7	1.9	2,688	9.7	0.8
70-79 years	3,500	11.8	1.0	324	24.0	5.0	738	› 12.8	3.0	2,092	›› 11.0	1.3
80 + years	2,752	19.2	1.4	232	27.5	4.6	680	18.3	2.0	1,454	18.9	2.1
Total, age adjusted	42,853	7.4	0.4	7,620	11.2	0.8	8,477	10.0	0.8	23,506	››› 6.7	0.4
Male												
1-2 years	931	8.5	1.1	345	11.1	1.5	167	11.3 *	3.8	369	› 6.7 *	1.3
3-5 years	1,281	6.2	1.0	435	9.2	1.7	275	›› 3.7 *	0.8	517	› 5.8	1.2
6-11 years	1,482	4.7	0.8	430	7.7	2.0	305	3.9 *	1.1	661	4.3	1.1
12-19 years	1,864	4.3	0.8	421	5.9	1.7	448	6.0 *	2.8	821	4.2	1.0
20-29 years	3,124	1.8	0.6	404	5.9	2.2	770	› 0.8 *	0.4	1,680	1.7	0.8
30-39 years	2,802	3.7	0.8	342	5.5 *	1.8	496	7.5	1.9	1,806	3.2	0.9
40-49 years	2,328	5.1	0.8	250	4.9 *	1.7	382	9.7	3.0	1,532	4.6	0.9
50-59 years	1,666	7.8	1.2	148	12.9 *	4.8	232	14.1	4.8	1,166	6.8	1.2
60-69 years	2,260	12.1	0.9	220	11.5	3.8	414	14.7	3.7	1,436	11.8	1.0
70-79 years	1,624	17.8	1.7	138	31.9	8.2	310	19.2	4.5	1,038	17.1	2.2
80 + years	1,302	29.8	1.8	96	41.5	8.0	260	31.9	4.1	792	28.7	2.6
Total, age adjusted	20,664	6.9	0.4	3,229	10.1	1.0	4,059	9.2	1.0	11,818	››› 6.4	0.4
Female												
1-2 years	858	8.9	1.1	280	13.6	2.6	171	10.7 *	3.1	359	› 6.6 *	1.5
3-5 years	1,337	6.1	1.0	463	8.4	2.0	288	4.5 *	1.5	532	5.6	1.3
6-11 years	1,409	6.1	1.0	438	6.2	1.5	306	6.6 *	1.8	588	5.8	1.2
12-19 years	2,013	7.2	0.9	508	12.2	2.1	439	› 5.8 *	2.0	927	›› 6.2	1.1
20-29 years	3,164	8.6	1.0	728	11.2	1.8	694	10.6	2.9	1,562	7.8	1.2
30-39 years	3,326	10.8	1.4	672	14.8	2.3	592	17.4	5.1	1,870	9.4	1.6
40-49 years	2,596	9.0	1.0	426	12.9	2.1	370	17.1	3.8	1,618	› 7.9	1.3
50-59 years	1,938	6.1	1.0	248	9.6	4.2	274	11.2 *	3.6	1,264	5.6	1.1
60-69 years	2,222	7.4	1.0	306	9.1	3.2	436	5.8 *	1.9	1,252	7.7	1.3
70-79 years	1,876	7.4	1.2	186	19.4	6.6	428	10.0	2.6	1,054	› 5.7	1.1
80 + years	1,450	13.3	1.6	136	22.2	5.6	420	13.3	2.5	662	› 12.0	2.6
Total, age adjusted	22,189	8.2	0.5	4,391	12.2	0.9	4,418	11.3	1.2	11,688	››› 7.3	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Criteria for low hematocrit varies by age, gender, and smoking status. See appendix B.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-106—Percent of persons with low red blood cell folate: Age 3 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
3-5 years	1,780	0.5 *	0.1	593	1.4 *	0.4	383	›› 0.4 *	0.2	731	›› 0.1 *	0.1
6-11 years	2,880	1.8	0.4	853	2.2 *	0.5	610	2.8 *	1.3	1,253	1.6 *	0.3
12-19 years	3,894	12.2	1.2	920	16.2	2.4	894	16.3	2.4	1,766	› 9.9	1.3
20-29 years	6,258	11.4	1.1	1,126	11.6	1.6	1,444	13.7	2.6	3,240	10.9	1.2
30-39 years	6,110	7.2	0.8	1,012	15.0	2.0	1,078	14.3	2.8	3,666	››› 5.6	0.9
40-49 years	4,930	9.5	1.0	672	14.9	3.3	750	12.5	2.6	3,164	8.4	1.1
50-59 years	3,578	5.7	0.8	388	10.4	2.5	500	7.8 *	2.1	2,416	› 5.0	0.9
60-69 years	4,442	4.6	0.6	516	11.4	2.8	838	9.9	2.8	2,672	›› 3.2	0.6
70-79 years	3,342	4.2	0.7	298	8.3 *	2.9	686	8.6	2.2	2,040	2.8	0.6
80 + years	2,354	4.9	0.6	208	8.0 *	3.0	562	6.9 *	1.8	1,272	3.7	0.7
Total, age adjusted	39,568	7.3	0.5	6,586	11.4	1.2	7,745	10.8	1.0	22,220	››› 6.2	0.4
Male												
3-5 years	872	0.3 *	0.1	284	1.4 *	0.6	178	› 0.0	0.0	369	› 0.1 *	0.1
6-11 years	1,470	1.0 *	0.4	421	1.2 *	0.6	302	3.2 *	2.7	661	0.6 *	0.2
12-19 years	1,876	9.4	1.3	414	14.4	3.1	455	9.8	2.4	830	› 7.8	1.4
20-29 years	3,108	9.5	1.3	404	7.8	1.6	756	9.1	2.6	1,678	10.1	1.6
30-39 years	2,788	5.9	0.8	338	12.8	4.8	494	13.2	3.8	1,798	4.7	1.0
40-49 years	2,328	9.0	1.2	250	13.6	4.0	382	14.1	3.9	1,532	7.7	1.3
50-59 years	1,652	5.7	1.2	146	6.2 *	2.4	226	6.3 *	2.0	1,160	5.4	1.2
60-69 years	2,260	4.8	0.6	220	21.3	6.9	408	10.4	2.6	1,438	›› 3.2	0.7
70-79 years	1,568	4.5	1.1	132	4.6 *	2.4	288	11.4 *	3.1	1,016	2.8	0.9
80 + years	1,136	6.0	1.2	90	17.4 *	6.3	216	9.5 *	3.3	698	› 4.3	1.1
Total, age adjusted	19,058	6.4	0.5	2,699	10.4	1.3	3,705	9.6	1.3	11,180	››› 5.6	0.6
Female												
3-5 years	908	0.6 *	0.2	309	1.4 *	0.5	205	0.9 *	0.6	362	› 0.2 *	0.1
6-11 years	1,410	2.7 *	0.5	432	3.2 *	0.8	308	2.4 *	0.8	592	2.7 *	0.6
12-19 years	2,018	15.2	2.1	506	17.5	3.2	439	22.9	3.5	936	12.3	2.4
20-29 years	3,150	13.4	1.5	722	13.7	2.2	688	18.9	3.6	1,562	11.8	1.5
30-39 years	3,322	8.6	1.1	674	16.4	3.3	584	15.3	3.6	1,868	›› 6.5	1.0
40-49 years	2,602	10.0	1.5	422	15.7	5.4	368	10.9	3.6	1,632	9.1	1.6
50-59 years	1,926	5.6	0.9	242	13.1	4.0	274	9.2 *	3.6	1,256	› 4.7	1.0
60-69 years	2,182	4.5	1.0	296	7.6 *	3.2	430	9.6	4.7	1,234	3.2	1.0
70-79 years	1,774	4.1	0.7	166	10.6 *	3.8	398	7.4 *	2.4	1,024	2.8 *	0.9
80 + years	1,218	4.3	0.7	118	4.5 *	2.8	346	6.0 *	1.8	574	3.2 *	1.0
Total, age adjusted	20,510	8.3	0.6	3,887	12.4	1.6	4,040	12.2	1.2	11,040	››› 6.9	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Low RBC folate is identified as < 95 ng/mL. Source: *Healthy People 2010* (U.S. DHHS, 2000a).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-107—Percent of persons with low serum vitamin B_{12}: Age 3 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
3-5 years	877	>0	0.05	317	0.2 *	0.18	187	0.0	0.00	344	0.0	0.00
6-11 years	1,327	0.2 *	0.10	472	0.1 *	0.13	265	0.6 *	0.59	537	0.0	0.00
12-19 years	2,042	0.9 *	0.47	572	0.6 *	0.37	495	0.6 *	0.38	847	1.2 *	0.73
20-29 years	3,232	3.0	0.93	738	1.9 *	0.95	760	4.4 *	2.12	1,566	3.0	0.93
30-39 years	3,278	1.6	0.57	650	0.0	0.00	576	5.7 *	3.14	1,898	› 1.3 *	0.59
40-49 years	2,532	3.5	1.08	432	1.9 *	0.94	360	1.2 *	0.53	1,602	4.0	1.25
50-59 years	1,758	3.6	1.30	266	2.3 *	1.27	234	0.4 *	0.28	1,146	4.3	1.69
60-69 years	2,262	3.7	0.97	310	4.8 *	1.86	428	3.5 *	1.90	1,342	3.2	0.90
70-79 years	1,748	5.1	0.78	190	2.2 *	1.52	374	7.0 *	2.95	1,048	4.5	1.05
80 + years	1,322	8.0	1.03	140	3.3 *	2.24	342	4.2 *	1.37	678	›› 11.2	1.53
Total, age adjusted	20,378	2.7	0.36	4,087	1.5	0.35	4,021	2.7	0.76	11,008	› 2.8	0.43
Male												
3-5 years	441	0.1 *	0.09	147	0.4 *	0.45	91	0.0 *	0.00	186	0.0	0.00
6-11 years	687	0.1 *	0.09	243	0.3 *	0.27	128	0.0 *	0.00	286	0.0	0.00
12-19 years	969	1.4 *	0.88	258	0.4 *	0.40	241	1.1 *	0.80	396	1.8 *	1.37
20-29 years	1,494	2.6 *	1.06	262	1.4 *	1.08	364	2.7 *	2.05	776	2.9 *	1.35
30-39 years	1,372	1.6 *	0.95	196	0.0	0.00	248	8.3 *	5.58	868	1.0 *	0.90
40-49 years	1,114	2.4 *	0.97	152	2.1 *	1.52	186	1.8 *	0.94	714	2.5 *	1.13
50-59 years	708	5.1 *	2.19	88	0.0	0.00	104	0.5 *	0.44	478	› 6.4 *	2.80
60-69 years	1,146	4.9	1.22	142	8.7 *	5.90	212	6.7 *	4.05	718	4.8 *	1.46
70-79 years	702	6.0 *	1.47	68	2.2 *	1.75	138	12.5 *	7.17	446	5.4 *	1.63
80 + years	602	6.8 *	1.52	62	0.0	0.00	138	› 7.0 *	3.16	340	››› 8.3 *	2.36
Total, age adjusted	9,235	2.7	0.41	1,618	1.4	0.74	1,850	3.7	1.09	5,208	2.9	0.48
Female												
3-5 years	436	0.0	0.00	170	0.0	0.00	96	0.0 *	0.00	158	0.0	0.00
6-11 years	640	0.2 *	0.18	229	0.0	0.00	137	1.0 *	1.03	251	0.0	0.00
12-19 years	1,073	0.5 *	0.24	314	0.7 *	0.40	254	0.1 *	0.11	451	0.6 *	0.36
20-29 years	1,738	3.5	1.22	476	2.1 *	1.32	396	6.1 *	3.85	790	3.2 *	1.14
30-39 years	1,906	1.7 *	0.66	454	0.0	0.00	328	3.2 *	2.22	1,030	1.6 *	0.82
40-49 years	1,418	4.6	1.85	280	1.8 *	0.82	174	0.5 *	0.49	888	5.4	2.23
50-59 years	1,050	2.2 *	0.81	178	3.5 *	2.12	130	0.3 *	0.34	668	2.3 *	1.04
60-69 years	1,116	2.6 *	1.09	168	3.2 *	2.38	216	0.7 *	0.55	624	1.6 *	0.78
70-79 years	1,046	4.4	1.13	122	2.1 *	2.24	236	5.0 *	3.72	602	3.7 *	1.35
80 + years	720	8.7	1.86	78	4.7 *	3.06	204	2.8 *	1.60	338	13.0	2.86
Total, age adjusted	11,143	2.6	0.45	2,469	1.6	0.41	2,171	2.0	0.69	5,800	2.7	0.51

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Low serum vitamin B_{12} is identified as< 200 pg/mL. Source: *Healthy People 2010* (U.S. DHHS, 2000a).
>0 Value to small to display.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-108—Percent of persons with high total cholesterol: Age 3 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
3-5 years	1,707	7.5	1.0	562	7.5	1.3	373	8.0 *	2.0	704	7.5	1.4
6-11 years	2,855	11.4	1.1	847	9.1	1.5	612	12.5	2.4	1,236	11.3	1.3
12-19 years	3,868	11.1	1.1	917	9.7	1.3	888	12.6	2.8	1,747	10.4	1.3
20-29 years	6,252	5.3	0.6	1,130	4.0	1.0	1,446	7.2	1.8	3,236	5.2	0.8
30-39 years	6,088	12.2	0.9	1,004	9.8	2.6	1,082	14.3	2.6	3,650	12.1	1.0
40-49 years	4,928	20.4	1.4	668	18.5	3.9	750	19.3	3.0	3,170	20.4	1.6
50-59 years	3,582	30.2	1.5	384	29.8	4.6	508	24.4	4.0	2,416	30.2	1.6
60-69 years	4,492	34.4	1.4	530	29.0	4.3	850	› 41.8	4.2	2,696	34.2	1.6
70-79 years	3,492	33.7	1.5	320	28.8	5.5	728	37.9	2.9	2,104	32.5	2.0
80 + years	2,720	29.3	2.0	230	24.1	5.8	672	› 35.5	3.6	1,432	27.7	2.3
Total, age adjusted	39,984	17.8	0.5	6,592	15.7	1.1	7,909	› 18.9	0.9	22,391	17.6	0.6
Male												
3-5 years	846	6.3	1.1	273	6.4 *	1.4	176	4.6 *	1.6	358	6.7 *	1.7
6-11 years	1,452	12.2	1.9	414	9.0	2.7	305	10.9 *	2.1	650	12.3	2.1
12-19 years	1,863	9.2	1.7	415	10.2	2.8	448	13.0	5.6	823	7.6	1.8
20-29 years	3,102	5.5	0.6	402	3.9 *	1.4	762	› 10.6	2.9	1,674	4.6	0.7
30-39 years	2,778	17.1	1.4	340	15.4	6.2	492	17.6	5.3	1,790	17.0	1.4
40-49 years	2,338	21.6	1.9	252	17.8	6.6	384	19.5	4.1	1,544	22.2	2.2
50-59 years	1,658	25.4	2.2	142	32.8 *	10.4	234	14.4 *	4.2	1,160	25.4	2.2
60-69 years	2,274	27.0	1.5	224	19.0	6.3	420	› 37.4	6.0	1,438	26.5	1.7
70-79 years	1,624	21.0	2.0	134	11.9 *	5.9	302	› 28.1	4.9	1,054	20.0	2.4
80 + years	1,288	16.9	2.0	98	16.6 *	7.7	256	21.8	4.0	782	17.4	2.2
Total, age adjusted	19,223	16.3	0.6	2,694	14.7	2.0	3,779	17.1	1.6	11,273	16.0	0.7
Female												
3-5 years	861	8.7	1.6	289	8.4 *	2.4	197	12.0 *	3.8	346	8.4	2.1
6-11 years	1,403	10.6	1.3	433	9.1	2.0	307	13.8	3.9	586	10.2	1.9
12-19 years	2,005	13.1	1.2	502	9.4	1.9	440	12.2	2.8	924	13.6	1.6
20-29 years	3,150	5.1	1.1	728	4.1 *	1.4	684	3.2 *	1.6	1,562	6.0	1.5
30-39 years	3,310	7.2	0.9	664	6.2	1.5	590	11.4	2.6	1,860	6.5	1.1
40-49 years	2,590	19.2	1.4	416	19.0	4.8	366	19.0	4.9	1,626	18.7	1.6
50-59 years	1,924	34.8	2.2	242	28.2	6.8	274	34.3	6.0	1,256	34.9	2.5
60-69 years	2,218	40.9	2.2	306	32.5	5.7	430	45.4	6.3	1,258	41.5	2.6
70-79 years	1,868	43.0	1.8	186	38.3	6.6	426	42.3	3.6	1,050	43.4	2.2
80 + years	1,432	36.0	2.6	132	27.0	6.8	416	40.4	4.5	650	35.1	3.7
Total, age adjusted	20,761	18.8	0.6	3,898	15.9	1.4	4,130	› 20.0	1.2	11,118	› 18.9	0.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 High total cholesterol is identified as ≥ 200 mg/dL (age 2-19) and ≥ 240 mg/dL (age > 19). Source: National Cholesterol Education Program, NIH (2001).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-109—Percent of persons with borderline-high total cholesterol: Age 3 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
3-5 years	1,707	28.6	1.8	562	29.8	3.2	373	34.7	5.3	704	26.1	2.0
6-11 years	2,855	32.6	1.7	847	28.9	3.4	612	35.4	4.3	1,236	32.8	2.4
12-19 years	3,868	24.7	1.4	917	26.9	3.3	888	26.2	3.8	1,747	23.0	1.7
20-29 years	6,252	20.0	1.4	1,130	22.9	3.4	1,446	14.6	2.8	3,236	21.0	1.8
30-39 years	6,088	27.9	1.5	1,004	25.5	2.7	1,082	27.5	3.8	3,650	28.1	1.7
40-49 years	4,928	35.3	1.3	668	36.4	4.9	750	31.2	4.2	3,170	35.9	1.5
50-59 years	3,582	40.2	1.4	384	38.5	4.3	508	39.0	5.7	2,416	40.4	1.7
60-69 years	4,492	39.6	1.6	530	40.2	4.8	850	29.9	3.3	2,696	40.2	1.9
70-79 years	3,492	33.5	1.4	320	35.0	5.6	728	30.8	2.8	2,104	33.6	1.7
80 + years	2,720	34.7	1.3	230	39.4	6.5	672	34.5	2.6	1,432	33.0	1.7
Total, age adjusted	39,984	31.0	0.6	6,592	31.2	1.6	7,909	29.2	1.0	22,391	30.9	0.7
Male												
3-5 years	846	27.7	3.0	273	27.6	4.2	176	38.4	9.6	358	25.4	3.4
6-11 years	1,452	34.1	2.1	414	30.5	3.6	305	30.8	4.4	650	36.2	3.0
12-19 years	1,863	22.1	1.8	415	24.3	4.3	448	24.2	5.2	823	19.7	2.2
20-29 years	3,102	19.6	1.7	402	26.5	5.5	762	› 13.3	3.0	1,674	20.4	2.1
30-39 years	2,778	31.2	1.7	340	18.3	3.9	492	28.4	4.8	1,790	›› 32.0	2.0
40-49 years	2,338	38.5	2.0	252	35.4	7.0	384	32.0	6.1	1,544	39.5	2.4
50-59 years	1,658	41.1	2.7	142	35.6 *	8.8	234	43.3	8.4	1,160	41.6	3.0
60-69 years	2,274	40.8	1.7	224	27.2	7.5	420	30.9	5.8	1,438	41.6	2.0
70-79 years	1,624	35.3	2.2	134	44.1 *	12.8	302	29.9	4.4	1,054	35.2	2.4
80 + years	1,288	31.8	2.3	98	33.8 *	8.2	256	22.6	4.2	782	32.6	3.0
Total, age adjusted	19,223	31.9	0.8	2,694	29.2	2.3	3,779	28.8	1.5	11,273	32.3	0.9
Female												
3-5 years	861	29.6	2.7	289	31.5	3.8	197	30.2	5.2	346	26.9	3.2
6-11 years	1,403	31.0	2.0	433	27.5	4.2	307	39.5	6.2	586	29.0	3.1
12-19 years	2,005	27.5	1.9	502	28.7	4.5	440	28.1	3.9	924	26.6	2.3
20-29 years	3,150	20.5	1.9	728	21.0	4.7	684	16.1	3.6	1,562	21.7	2.7
30-39 years	3,310	24.4	1.9	664	30.3	4.0	590	26.7	4.7	1,860	23.6	2.0
40-49 years	2,590	32.2	1.6	416	36.9	5.8	366	30.4	4.2	1,626	32.3	1.8
50-59 years	1,924	39.3	2.0	242	40.2	5.9	274	34.7	5.7	1,256	39.2	2.4
60-69 years	2,218	38.6	2.4	306	44.7	5.3	430	› 29.2	4.8	1,258	38.8	2.8
70-79 years	1,868	32.3	1.5	186	29.8	5.9	426	31.2	3.5	1,050	32.3	2.3
80 + years	1,432	36.2	1.6	132	41.6 *	8.1	416	38.8	3.6	650	33.2	2.6
Total, age adjusted	20,761	30.0	0.7	3,898	32.3	1.9	4,130	29.1	1.4	11,118	29.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Borderline high total cholesterol is identified as 170-199 mg/dL (age 2-19) and 200-239 mg/dL (age > 19). Source: National Cholesterol Education Program, NIH (2001).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-110—Percent of persons with high LDL cholesterol: Age 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	1,443	11.9	1.9	346	7.5 *	3.0	328	6.4 *	2.9	641	12.7	2.7
20-29 years	2,710	4.6	0.8	454	5.5 *	2.2	600	8.2	2.9	1,442	4.0	0.9
30-39 years	2,686	12.3	1.1	442	5.6 *	1.5	416	12.4	3.4	1,650	›› 12.8	1.5
40-49 years	2,104	19.2	2.0	302	22.0	7.0	328	19.3	4.3	1,312	18.4	2.3
50-59 years	1,560	26.1	2.3	146	32.8 *	7.9	198	28.2	6.8	1,076	24.5	2.7
60-69 years	1,904	30.7	2.0	212	25.0 *	7.9	346	40.1	5.9	1,140	30.5	2.3
70-79 years	1,428	28.0	2.0	128	29.9 *	9.1	280	36.1	5.2	880	25.5	2.7
80 + years	948	23.9	2.7	74	16.5 *	8.2	240	32.0	7.0	534	20.8	2.4
Total, age adjusted	14,783	17.3	0.8	2,104	16.4	2.1	2,736	19.2	1.6	8,675	16.8	1.0
Male												
12-19 years	663	10.7	3.1	155	9.3 *	6.1	143	2.4 *	1.3	294	12.1	4.1
20-29 years	1,288	5.2	1.2	162	4.2 *	2.0	294	5.9 *	2.8	716	5.5	1.5
30-39 years	1,200	17.8	2.4	152	7.1 *	2.5	192	17.2 *	7.2	778	›› 18.1	2.7
40-49 years	962	25.8	2.7	116	22.2 *	9.4	164	24.5	7.4	604	25.3	2.9
50-59 years	708	25.8	3.6	44	45.4 *	19.7	94	22.6 *	8.7	506	23.9	3.7
60-69 years	998	28.8	2.1	90	34.2 *	13.4	182	33.6	7.0	624	27.8	2.6
70-79 years	700	21.0	2.5	58	21.3 *	15.6	120	22.7 *	8.1	466	20.3	3.0
80 + years	452	18.8	2.8	30	26.6 *	13.7	94	15.4 *	5.2	286	21.2	3.5
Total, age adjusted	6,971	18.6	1.1	807	19.0	3.7	1,283	17.2	2.2	4,274	18.5	1.3
Female												
12-19 years	780	13.1	2.1	191	6.3 *	2.5	185	9.0 *	4.7	347	› 13.4	2.4
20-29 years	1,422	4.0	1.2	292	6.4 *	3.4	306	10.3 *	4.9	726	2.4 *	0.9
30-39 years	1,486	6.9	1.3	290	4.5 *	1.7	224	8.6 *	4.7	872	7.2	1.5
40-49 years	1,142	13.3	2.2	186	21.9	8.6	164	13.2 *	5.7	708	12.2	2.7
50-59 years	852	26.4	3.3	102	25.7 *	6.8	104	32.7 *	9.5	570	25.0	3.9
60-69 years	906	32.4	2.9	122	22.1 *	8.8	164	47.0	8.3	516	33.0	3.5
70-79 years	728	33.5	2.9	70	34.1 *	10.3	160	42.4	8.1	414	30.4	3.6
80 + years	496	26.6	3.9	44	13.2 *	7.0	146	› 37.9	8.6	248	20.6	3.9
Total, age adjusted	7,812	16.0	1.0	1,297	15.1	2.4	1,453	19.9	2.2	4,401	15.1	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 High LDL cholesterol is identified as ≥ 160 mg/dL. The cutoff used to define high LDL cholesterol levels includes both high and very high levels as defined by the NCEP. Source: National Cholesterol Education Program, NIH (2001).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-111—Percent of persons with borderline-high LDL cholesterol: Age 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	1,443	12.2	1.4	346	15.6	3.6	328	12.8	2.6	641	11.8	2.2
20-29 years	2,710	17.7	2.0	454	22.9	2.8	600	›››10.3	2.0	1,442	17.5	2.6
30-39 years	2,686	26.5	2.1	442	26.6	6.2	416	23.6	4.7	1,650	26.8	2.7
40-49 years	2,104	28.0	2.5	302	20.2	5.8	328	30.2	5.9	1,312	28.8	2.9
50-59 years	1,560	31.6	2.3	146	27.0	6.4	198	26.2	7.6	1,076	32.2	2.4
60-69 years	1,904	33.9	2.2	212	22.6	6.9	346	23.0	5.0	1,140	› 36.6	2.1
70-79 years	1,428	30.6	2.1	128	41.7 *	11.1	280	28.6	4.9	880	30.4	2.6
80 + years	948	31.6	3.6	74	24.7 *	7.7	240	25.6	4.4	534	36.6	5.2
Total, age adjusted	14,783	25.2	0.8	2,104	24.0	1.8	2,736	21.9	1.6	8,675	25.9	0.9
Male												
12-19 years	663	8.5	1.7	155	15.4 *	4.0	143	› 5.5 *	1.8	294	8.1 *	2.2
20-29 years	1,288	18.1	2.5	162	27.9	5.9	294	› 10.4 *	3.6	716	17.8	2.9
30-39 years	1,200	33.3	3.0	152	28.2	8.4	192	33.6	8.7	778	32.8	3.9
40-49 years	962	30.7	4.0	116	7.9 *	3.2	164	› 30.5	8.7	604	›››32.1	5.0
50-59 years	708	29.2	3.4	44	30.6 *	15.2	94	30.0 *	12.5	506	29.6	3.8
60-69 years	998	32.2	2.9	90	21.6 *	9.9	182	24.4	8.0	624	34.4	3.2
70-79 years	700	28.1	3.3	58	51.2 *	17.3	120	30.0	8.7	466	27.1	3.4
80 + years	452	30.0	4.3	30	43.5 *	14.1	94	25.9 *	8.1	286	30.7	5.5
Total, age adjusted	6,971	25.8	1.1	807	24.6	2.8	1,283	23.6	3.4	4,274	26.1	1.4
Female												
12-19 years	780	15.9	2.3	191	15.7 *	5.4	185	17.5	4.2	347	15.8	3.3
20-29 years	1,422	17.3	2.5	292	19.8	4.5	306	10.2 *	2.5	726	17.2	3.3
30-39 years	1,486	19.7	2.5	290	25.4	6.3	224	15.6	5.3	872	20.6	3.0
40-49 years	1,142	25.7	2.7	186	29.8 *	10.6	164	29.9 *	10.3	708	25.9	3.2
50-59 years	852	33.8	3.0	102	25.0 *	9.4	104	23.1 *	7.2	570	34.8	3.2
60-69 years	906	35.4	3.0	122	22.9 *	7.5	164	21.4	5.1	516	› 38.7	3.2
70-79 years	728	32.6	2.7	70	37.2 *	12.6	160	28.0	5.7	414	33.6	4.0
80 + years	496	32.5	4.1	44	18.5 *	7.0	146	25.5	5.1	248	› 40.5	5.8
Total, age adjusted	7,812	24.6	1.0	1,297	24.2	2.6	1,453	20.4	2.5	4,401	25.6	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Borderline high LDL cholesterol is identified as 110-129 mg/dL (age 2-19) and 130-159 mg/dL (age > 19). Source: National Cholesterol Education Program, NIH (2001).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-112—Percent of persons with low HDL cholesterol: Age 3 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
3-5 years	1,697	8.8	1.36	557	8.9	1.83	372	8.9 *	3.19	700	8.6	1.76
6-11 years	2,841	5.3	0.83	843	6.3	1.47	609	5.1 *	1.51	1,230	5.0	1.27
12-19 years	3,843	8.6	1.04	909	9.7	2.65	884	10.2	2.24	1,736	8.1	1.31
20-29 years	6,216	20.5	1.36	1,122	22.9	2.72	1,440	25.6	2.83	3,214	18.5	1.65
30-39 years	6,058	24.1	1.75	996	24.3	3.12	1,080	28.4	3.45	3,632	23.4	1.87
40-49 years	4,858	25.5	1.49	664	28.2	4.82	738	29.6	3.40	3,120	25.2	1.65
50-59 years	3,556	25.9	1.54	378	30.6	7.01	504	20.9	4.16	2,404	25.5	1.72
60-69 years	4,468	25.6	1.57	526	25.5	4.31	850	27.9	4.64	2,676	25.8	1.79
70-79 years	3,474	23.0	1.51	316	26.3	6.07	722	21.9	2.90	2,096	23.3	1.81
80 + years	2,706	19.4	1.21	230	17.9 *	4.53	668	15.8	2.11	1,422	21.2	1.39
Total, age adjusted	39,717	19.7	0.70	6,541	21.4	1.61	7,867	21.3	1.35	22,230	19.2	0.77
Male												
3-5 years	845	7.9	1.91	272	7.8 *	2.00	176	9.5 *	4.91	358	7.8 *	2.37
6-11 years	1,444	4.5	0.89	411	4.5 *	1.75	303	4.9 *	2.33	647	4.2 *	1.32
12-19 years	1,849	10.4	1.65	410	7.5 *	2.42	445	13.2	3.80	817	10.5	2.19
20-29 years	3,082	27.4	2.04	398	20.9	5.48	756	32.6	4.59	1,664	26.6	2.35
30-39 years	2,758	33.3	2.59	334	34.0	6.76	492	38.3	5.05	1,778	32.5	2.79
40-49 years	2,304	39.4	2.51	248	40.8	7.03	372	33.6	5.63	1,526	41.0	2.82
50-59 years	1,646	41.4	2.38	140	48.4 *	9.97	232	23.9	5.46	1,154	41.9	2.74
60-69 years	2,260	39.6	2.24	222	51.1	8.69	420	42.5	7.26	1,426	39.1	2.41
70-79 years	1,616	34.8	2.61	132	44.9 *	13.36	300	30.9	5.50	1,050	35.3	3.16
80 + years	1,280	31.0	2.62	98	26.5 *	7.38	256	28.9	4.53	774	31.6	2.76
Total, age adjusted	19,084	28.4	0.99	2,665	29.7	2.53	3,752	27.3	1.94	11,194	28.5	1.14
Female												
3-5 years	852	9.7	1.66	285	9.8 *	2.99	196	8.1 *	3.35	342	9.5 *	2.12
6-11 years	1,397	6.1	1.30	432	8.0 *	2.72	306	5.3 *	1.76	583	5.8 *	1.99
12-19 years	1,994	6.7	1.25	499	11.3	3.96	439	7.2 *	3.20	919	5.5	1.35
20-29 years	3,134	13.1	1.39	724	23.9	3.62	684	17.5	3.39	1,550	›››9.1	1.55
30-39 years	3,300	14.5	1.56	662	18.1	3.51	588	19.9	4.56	1,854	13.3	1.65
40-49 years	2,554	12.2	1.03	416	20.3	4.48	366	25.5	5.94	1,594	› 9.5	1.10
50-59 years	1,910	11.1	1.58	238	20.1	4.97	272	17.9	5.53	1,250	› 9.2	1.73
60-69 years	2,208	13.6	1.68	304	16.4	4.20	430	15.8	4.90	1,250	13.4	2.06
70-79 years	1,858	14.5	1.57	184	15.7 *	4.67	422	17.9	3.96	1,046	13.0	1.83
80 + years	1,426	13.1	1.42	132	14.5 *	4.86	412	11.0	1.91	648	13.7	2.41
Total, age adjusted	20,633	11.5	0.70	3,876	17.0	1.45	4,115	16.1	1.85	11,036	›››9.8	0.70

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Low HDL cholesterol is identified as < 40 mg/dL. Source: National Cholesterol Education Program, NIH (2001).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-113—Percent of persons with high triglycerides: Age 12 and over[1,2]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	1,513	10.5	1.72	358	7.7 *	3.09	348	7.8 *	3.55	673	11.3	2.31
20-29 years	2,824	6.6	1.22	466	7.4 *	2.80	632	18.6	5.07	1,498	4.5	1.10
30-39 years	2,834	13.8	1.96	470	22.2	5.19	452	22.2	6.08	1,734	12.4	1.96
40-49 years	2,236	15.5	1.32	324	13.2 *	4.57	348	12.5 *	3.88	1,398	16.2	1.57
50-59 years	1,648	23.7	1.88	152	20.8 *	6.73	206	15.4 *	3.20	1,140	23.1	1.97
60-69 years	2,032	24.9	2.49	224	18.2 *	6.14	368	35.7	5.58	1,222	24.9	3.02
70-79 years	1,512	20.1	2.48	136	19.4 *	7.29	306	18.7	4.95	922	19.9	3.10
80 + years	1,004	16.6	2.78	80	20.2 *	8.29	252	24.6	5.43	562	13.8	3.05
Total, age adjusted	15,603	15.4	0.71	2,210	15.4	2.04	2,912	18.0	1.83	9,149	14.8	0.89
Male												
12-19 years	692	11.1	2.64	162	5.3 *	3.27	154	16.6 *	8.42	306	9.7 *	2.92
20-29 years	1,350	8.7	2.15	166	4.8 *	2.17	316	› 27.7 *	9.35	746	5.9	1.98
30-39 years	1,278	16.1	2.55	162	19.3 *	8.39	210	19.0 *	6.92	828	16.4	2.89
40-49 years	1,040	22.1	2.48	126	21.4 *	9.50	180	20.4 *	6.91	656	22.7	2.94
50-59 years	754	27.9	2.77	46	26.7 *	13.81	96	12.8 *	5.67	542	27.2	2.92
60-69 years	1,048	23.9	3.00	90	2.9 *	1.66	190	››› 34.7	7.45	664	››› 23.2	3.73
70-79 years	728	20.4	3.18	66	31.0 *	14.54	124	19.6 *	8.31	478	20.2	4.04
80 + years	480	13.2	2.98	32	7.7 *	7.50	100	13.3 *	5.82	304	13.6	3.95
Total, age adjusted	7,370	17.8	1.07	850	15.3	3.34	1,370	20.7	2.88	4,524	17.2	1.28
Female												
12-19 years	821	9.9	2.41	196	9.3 *	4.87	194	2.1 *	1.03	367	12.8	3.60
20-29 years	1,474	4.4	1.30	300	9.1 *	5.37	316	9.0 *	4.48	752	2.9 *	1.16
30-39 years	1,556	11.4	2.22	308	24.4	7.13	242	24.8	8.26	906	› 8.2	1.94
40-49 years	1,196	9.5	1.55	198	6.6 *	2.35	168	2.9 *	0.97	742	10.5	1.92
50-59 years	894	19.8	2.58	106	17.4 *	6.58	110	17.3 *	5.89	598	19.1	2.81
60-69 years	984	25.7	2.99	134	22.6 *	7.81	178	36.7 *	8.97	558	26.6	3.43
70-79 years	784	19.9	3.28	70	13.3 *	6.43	182	18.3 *	6.12	444	19.6	4.48
80 + years	524	18.3	3.62	48	24.4 *	10.69	152	28.6 *	6.79	258	13.9 *	4.03
Total, age adjusted	8,233	13.0	0.89	1,360	14.7	2.17	1,542	14.8	1.97	4,625	12.5	1.11

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 High triglycerides is identified as ≥ 200 mg/dL. The cutoff used to define high triglycerides includes both high and very high triglycerides as defined by the NCEP. Source: National Cholesterol Education Program, NIH (2001).

2 Table includes persons who fasted at least 9 hours and were examined before noon.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income. Table excludes pregnant women.

Table D-114—Percent of persons with reduced or severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	2,978	9.4	0.9	515	10.1	3.4	694	10.6	2.3	1,540	9.3	1.1
30-39 years	2,898	11.5	0.9	483	8.4	2.1	506	8.2	2.4	1,744	11.8	1.1
40-49 years	2,369	17.2	1.3	322	11.4	3.2	354	15.1	4.4	1,530	17.8	1.6
50-59 years	1,704	24.6	1.5	183	31.4	4.6	238	27.0	4.6	1,156	23.3	1.6
60-69 years	2,095	37.7	1.3	229	45.0	4.5	391	46.4	5.6	1,281	36.5	1.5
70-79 years	1,560	52.5	1.7	133	60.9	5.4	324	62.3	3.1	956	49.4	2.2
80 + years	1,042	71.9	1.6	89	76.9 *	5.7	245	76.2	3.5	574	68.6	1.8
Total, age adjusted	14,646	23.2	0.5	1,954	24.2	1.5	2,752	24.6	1.6	8,781	22.7	0.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Reduced bone density is defined as bone density of the proximal femur between 1 and 2.5 standard deviations below the mean of non-Hispanic white women 20-29 years of age, as measured by NHANES-III (density between .64 and .82). Severely reduced bone density is defined as more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age (density < .64).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-115—Percent of persons with severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	2,978	0.2 *	0.1	515	0.9 *	0.9	694	0.1 *	0.1	1,540	>0	>0
30-39 years	2,898	0.2 *	0.1	483	0.1 *	0.1	506	0.1 *	0.1	1,744	0.2 *	0.2
40-49 years	2,369	0.6 *	0.2	322	0.0	0.0	354	1.5 *	1.1	1,530	› 0.6 *	0.3
50-59 years	1,704	2.6	0.6	183	4.4 *	1.9	238	1.9 *	0.8	1,156	2.6	0.7
60-69 years	2,095	8.2	0.9	229	7.9 *	3.2	391	10.7	3.8	1,281	8.0	1.2
70-79 years	1,560	15.6	1.5	133	15.3	5.1	324	23.5	3.2	956	13.6	1.6
80 + years	1,042	30.8	1.5	89	41.9	5.7	245	38.7	4.1	574	›› 23.9	2.0
Total, age adjusted	14,646	4.2	0.2	1,954	4.9	0.7	2,752	5.5	0.7	8,781	3.7	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Severely reduced bone density is defined as bone density of the proximal femur more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age, as measured by NHANES-III (density < .64).
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Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-116—Percent of males with reduced or severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Male												
20-29 years	1,536	4.7	1.2	196	1.0 *	0.6	383	› 7.5 *	2.7	820	›› 4.5	1.2
30-39 years	1,349	5.3	1.2	165	0.8 *	0.5	239	2.9 *	2.3	868	››› 5.9	1.3
40-49 years	1,139	10.7	1.5	123	3.9 *	1.3	184	› 14.7 *	5.1	754	››› 10.6	1.6
50-59 years	785	11.3	2.1	69	20.0 *	7.9	109	17.4 *	5.6	552	10.1	2.2
60-69 years	1,061	17.3	1.5	97	20.2 *	7.5	194	27.8	6.1	681	16.0	1.8
70-79 years	727	25.0	2.0	58	41.3 *	13.2	133	25.0	4.8	474	24.6	2.4
80 + years	517	46.4	2.3	43	54.2 *	10.5	90	48.1 *	5.6	329	45.8	2.6
Total, age adjusted	7,114	12.1	0.6	751	12.3	2.0	1,332	15.0	2.2	4,478	11.7	0.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Reduced bone density is defined as bone density of the proximal femur between 1 and 2.5 standard deviations below the mean of non-Hispanic white women 20-29 years of age, as measured by NHANES-III (density between .64 and .82). Severely reduced bone density is defined as more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age (density < .64).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-117—Percent of males with severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Male												
20-29 years	1,536	0.0	0.0	196	0.0	0.0	383	0.0	0.0	820	0.0	0.0
30-39 years	1,349	0.2 *	0.2	165	0.0	0.0	239	0.0	0.0	868	0.3 *	0.3
40-49 years	1,139	0.4 *	0.2	123	0.0	0.0	184	0.4 *	0.4	754	0.4 *	0.3
50-59 years	785	0.8 *	0.4	69	1.0 *	0.8	109	0.4 *	0.4	552	0.9 *	0.4
60-69 years	1,061	1.6	0.6	97	1.3 *	1.2	194	3.0 *	2.9	681	1.6 *	0.7
70-79 years	727	4.2	1.2	58	12.8 *	10.2	133	4.6 *	2.8	474	3.9	1.4
80 + years	517	7.8	1.3	43	21.8 *	7.6	90	10.8 *	3.7	329	6.7	1.5
Total, age adjusted	7,114	1.1	0.2	751	2.4 *	1.0	1,332	1.3	0.4	4,478	1.1	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Severely reduced bone density is defined as bone density of the proximal femur more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age, as measured by NHANES-III (density < .64).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-118—Percent of females with reduced or severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
20-29 years	1,442	15.0	1.8	319	15.3	5.4	311	14.7	3.9	720	15.2	2.2
30-39 years	1,549	18.1	1.6	318	13.5	3.2	267	13.2	3.9	876	18.4	1.8
40-49 years	1,230	23.5	2.2	199	16.1	4.9	170	15.4 *	6.0	776	25.1	2.6
50-59 years	919	37.3	1.6	114	37.8	6.0	129	35.5	6.8	604	36.6	2.0
60-69 years	1,034	55.0	1.8	132	54.2	5.5	197	62.1	6.5	600	55.7	2.3
70-79 years	833	71.9	2.0	75	70.4 *	7.9	191	77.7	3.5	482	70.4	2.8
80 + years	525	86.3	1.8	46	87.9 *	3.9	155	85.1 *	3.6	245	85.2	2.5
Total, age adjusted	7,532	33.0	0.7	1,203	30.5	2.1	1,420	31.1	2.0	4,303	33.2	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Reduced bone density is defined as bone density of the proximal femur between 1 and 2.5 standard deviations below the mean of non-Hispanic white women 20-29 years of age, as measured by NHANES-III (density between .64 and .82). Severely reduced bone density is defined as more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age (density < .64).

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-119—Percent of females with severely reduced bone density: Age 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
20-29 years	1,442	0.4 *	0.2	319	1.4 *	1.4	311	0.2 *	0.1	720	>0	>0
30-39 years	1,549	0.2 *	0.1	318	0.2 *	0.2	267	0.2 *	0.1	876	0.2 *	0.2
40-49 years	1,230	0.9 *	0.4	199	0.0	0.0	170	2.6 *	2.1	776	0.9 *	0.4
50-59 years	919	4.2	1.0	114	6.3 *	3.1	129	3.2 *	1.5	604	4.4	1.2
60-69 years	1,034	13.8	1.5	132	10.3 *	4.6	197	17.2	6.1	600	14.1	2.1
70-79 years	833	23.6	2.0	75	16.5 *	5.6	191	› 31.3	4.7	482	21.9	2.1
80 + years	525	43.6	2.3	46	51.5 *	7.1	155	47.5	5.0	245	36.4	3.1
Total, age adjusted	7,532	6.3	0.3	1,203	6.1	1.0	1,420	7.7	1.2	4,303	5.8	0.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Severely reduced bone density is defined as bone density of the proximal femur more than 2.5 standard deviations below the mean for non-hispanic white women 20-29 years of age, as measured by NHANES-III (density < .64).
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Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-120—Prevalence of breastfeeding among females who gave birth within past 2 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
17-19 years	110	29.6	8.6	60	26.5 *	8.4	26	52.6 *	16.6	18	16.2 *	10.3
20-34 years	862	58.7	2.5	301	46.3	4.0	188	59.3	5.5	333	› 62.7	4.3
35 or older	135	73.3	7.0	45	61.8 *	11.9	22	71.6 *	10.1	54	78.2 *	8.4
Total	1,107	58.1	2.2	406	44.5	3.8	236	› 59.0	4.7	405	›› 63.2	3.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Table shows percent of women who ever breastfed, regardless of breastfeeding duration.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-121—Percent of infants and children ever breastfed: Ages 2 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
2-6 mos old	1,076	54.3	2.4	245	37.1	3.4	169	› 51.6	5.2	588	››› 60.0	3.4
7-11 mos old	1,031	54.5	2.6	257	30.0	3.8	171	››› 51.1	4.4	543	››› 65.9	3.0
1 year old	1,336	54.1	2.2	428	29.7	3.5	258	› 42.0	4.8	542	››› 66.3	2.0
2 years old	1,349	52.6	1.8	423	34.6	3.5	251	42.1	4.2	589	››› 60.8	2.5
3 years old	1,180	53.5	2.7	386	32.9	4.2	245	››› 55.3	5.6	480	››› 63.8	2.7
4 years old	1,167	53.6	2.0	355	30.4	4.4	254	››› 53.8	5.4	486	››› 62.9	3.3
5 years old	1,109	53.7	3.0	339	36.5	4.9	217	41.0	6.6	494	››› 62.6	3.1
Total, age adjusted	8,248	53.7	1.7	2,433	33.0	2.1	1,565	››› 47.6	3.1	3,722	››› 63.2	1.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-122—Percent of infants and children breastfed for at least 6 months, among those ever breastfed: Ages 7 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
7-11 mos old	542	37.9	3.0	75	22.4	4.9	89	›› 42.8	6.5	344	››› 40.3	3.4
1 year old	615	40.6	3.1	119	32.2	5.3	120	28.5	6.1	322	43.7	3.9
2 years old	627	39.9	2.7	134	35.1	5.0	110	34.0	6.2	331	42.3	3.4
3 years old	528	46.1	2.8	114	51.9	8.7	113	51.2	8.5	271	44.6	3.1
4 years old	523	41.1	3.5	102	27.1	5.4	118	› 47.8	7.3	268	›› 42.7	4.2
5 years old	481	44.6	2.8	100	42.1	8.3	91	61.0	9.0	254	44.9	3.9
Total, age adjusted	3,316	42.0	1.5	644	36.3	3.0	641	› 44.4	3.4	1,790	› 43.4	1.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-123—Percent of children breastfed for at least one year, among those ever breastfed: Ages 1-5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
1 year old	615	13.4	2.1	119	15.1 *	4.0	120	9.1 *	4.9	322	13.8	2.8
2 years old	627	17.9	1.8	134	13.8 *	3.8	110	13.3 *	4.4	331	19.2	2.5
3 years old	528	16.7	2.8	114	24.7	7.2	113	26.0 *	8.0	271	13.2	3.2
4 years old	523	15.5	2.0	102	8.2 *	3.6	118	20.3 *	5.5	268	16.0	2.6
5 years old	481	19.6	2.7	100	30.0	8.2	91	31.8 *	11.5	254	16.9	3.6
Total, age adjusted	2,774	16.6	1.3	569	18.4	3.3	552	20.1	3.9	1,446	15.8	1.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-124—Mean duration of breastfeeding among children ever breastfed: Ages 1-5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number Breastfed	Mean Duration (weeks)	Standard Error	Number Breastfed	Mean Duration (weeks)	Standard Error	Number Breastfed	Mean Duration (weeks)	Standard Error	Number Breastfed	Mean Duration (weeks)	Standard Error
1 year old	615	22.6	1.3	119	21.2	2.7	120	16.7	2.2	322	23.7	1.6
2 years old	625	25.6	1.3	133	21.2	2.1	109	20.8	2.4	331	› 27.5	1.8
3 years old	523	29.0	1.9	114	34.5	6.3	113	31.7	4.5	266	27.3	2.0
4 years old	517	25.6	1.8	101	17.9	2.2	115	› 28.8	3.4	266	›› 26.1	2.3
5 years old	477	28.2	1.7	99	36.5	7.2	90	36.0	5.8	253	26.5	2.5
Total, age adjusted	2,757	26.2	0.9	566	26.3	2.4	547	26.8	2.0	1,438	26.2	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Mean duration of breastfeeding is not shown for infants under 1 year old because estimates are biased by the large percent still breastfeeding.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-125—Percent of breastfed infants and children who were never fed formula: Ages 2 months to 5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number Breastfed	Percent	Standard Error	Number Breastfed	Percent	Standard Error	Number Breastfed	Percent	Standard Error	Number Breastfed	Percent	Standard Error
2-6 mos old	537	20.5	2.0	90	9.3 *	3.4	81	› 21.3 *	4.5	324	››› 21.9	2.3
7-11 mos old	540	16.0	2.2	75	3.4 *	1.9	89	›› 18.2 *	5.0	342	››› 18.2	2.8
1 year old	612	14.0	1.8	117	13.4 *	3.9	120	5.1 *	2.0	321	15.8	2.6
2 years old	624	16.9	1.8	134	13.8 *	4.2	107	12.2 *	4.9	331	18.7	2.4
3 years old	524	19.9	2.8	112	28.5 *	9.7	112	25.6	7.7	270	17.2	3.1
4 years old	513	14.6	2.1	100	6.5 *	4.0	115	› 18.6 *	4.6	264	14.4	2.5
5 years old	476	19.9	2.9	99	22.2	7.6	90	39.5	11.2	252	17.7	3.3
Total, age adjusted	3,826	17.2	1.0	727	15.1	2.5	714	20.2	3.5	2,104	17.3	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Estimates for infants under 1 year old may be biased by the large percent still breastfeeding.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-126—Mean age when first fed formula on a daily basis, among breastfed infants and children: Ages 2 months to 5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number Fed Formula	Mean Age (weeks)	Standard Error	Number Fed Formula	Mean Age (weeks)	Standard Error	Number Fed Formula	Mean Age (weeks)	Standard Error	Number Fed Formula	Mean Age (weeks)	Standard Error
2-6 mos old	431	5.4	0.4	78	4.0	0.5	65	3.7 *	0.6	256	›› 6.1	0.5
7-11 mos old	466	10.1	0.5	72	8.1	1.4	78	8.5	1.1	286	› 11.1	0.6
1 year old	537	12.2	0.8	100	10.4	1.9	109	9.6	1.3	280	12.9	1.0
2 years old	524	13.3	0.8	114	10.3	1.4	90	10.2	1.7	274	› 14.3	1.1
3 years old	435	13.4	0.8	93	10.4	1.9	87	12.9	2.6	229	14.2	1.0
4 years old	436	12.0	1.0	93	15.4	4.1	95	11.2	1.5	222	11.5	1.2
5 years old	392	13.0	0.7	84	13.7	2.5	67	13.3	3.5	209	13.3	0.9
Total, age adjusted	3,221	11.9	0.4	634	11.1	0.8	591	10.5	0.9	1,756	12.5	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Estimates for infants under 1 year old may be biased by the large percent still breastfeeding.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-127—Percent of infants and children fed cow's milk on a daily basis before 12 months of age: Ages 2 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
2-6 mos old	1,076	3.8	0.6	245	5.5 *	1.5	169	4.4 *	1.9	588	3.2	0.8
7-11 mos old	1,031	31.2	1.9	257	28.4	3.2	171	31.1	4.3	543	31.8	2.2
1 year old	1,339	45.5	2.1	428	42.3	3.3	259	47.2	4.5	544	47.1	2.8
2 years old	1,350	39.6	1.9	423	39.4	3.4	251	43.5	3.8	590	39.6	3.0
3 years old	1,186	39.8	2.5	389	28.9	4.7	247	› 46.3	6.0	481	› 41.4	2.7
4 years old	1,169	38.5	3.0	355	40.7	6.0	256	36.2	4.2	486	38.2	3.7
5 years old	1,110	37.8	2.7	339	43.2	5.2	217	37.8	7.2	495	34.4	3.1
Total, age adjusted	8,261	36.4	1.3	2,436	35.2	2.1	1,570	38.1	2.2	3,727	36.3	1.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-128—Mean age when first fed cow's milk on a daily basis: Ages 7 months to 5 years[1,2]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number Drinking Milk	Mean Age (weeks)	Standard Error	Number Drinking Milk	Mean Age (weeks)	Standard Error	Number Drinking Milk	Mean Age (weeks)	Standard Error	Number Drinking Milk	Mean Age (weeks)	Standard Error
7-11 mos old	336	33.9	0.5	77	31.9	1.4	54	35.0 *	1.6	179	34.4	0.6
1 year old	1,264	46.0	0.4	406	46.0	0.6	239	44.5	1.1	512	46.5	0.5
2 years old	1,303	48.0	0.6	412	47.4	1.1	244	45.6	1.2	566	48.5	0.9
3 years old	1,152	48.3	0.8	382	50.7	1.5	237	46.7	2.0	465	48.2	0.9
4 years old	1,124	49.2	1.1	346	46.8	1.4	245	52.4	2.6	466	49.2	1.5
5 years old	1,067	48.7	0.8	329	46.9	1.8	210	47.3	2.1	472	49.6	1.0
Total, age adjusted	6,287	44.3	0.4	1,966	43.5	0.6	1,236	43.9	0.8	2,678	44.7	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Estimates of mean age for infants under 1 year old may be biased by the large percent of infants not yet drinking cow's milk.
2 Mean age is not shown for infants 2-6 months old due to very small cell sizes.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-129—Percent of infants and children who ever used a baby bottle: Ages 2 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
2-6 mos old	1,076	94.6	0.9	245	96.8 *	1.4	169	93.2 *	2.1	588	94.3	1.0
7-11 mos old	1,031	97.4	0.6	257	99.7 *	0.3	171	96.1 *	2.0	543	›››96.6	0.8
1 year old	1,338	96.6	0.8	428	99.1 *	0.5	258	98.8 *	0.6	544	› 94.9	1.3
2 years old	1,350	96.4	0.6	423	97.7 *	1.0	251	98.3 *	1.1	590	95.4	1.0
3 years old	1,183	94.8	1.5	388	95.3 *	2.0	246	91.0 *	4.8	480	95.3	1.7
4 years old	1,169	96.2	0.9	355	97.8 *	1.7	256	94.6 *	1.9	486	95.9	1.2
5 years old	1,110	93.0	1.4	339	96.3 *	2.3	217	88.6 *	5.4	495	92.6	1.8
Total, age adjusted	8,257	95.5	0.5	2,435	97.4	0.8	1,568	94.3	1.7	3,726	› 94.9	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-130—Percent of infants and children still using a baby bottle: Ages 2 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
2-6 mos old	1,075	94.4	0.9	245	96.6 *	1.5	169	92.8 *	1.8	587	94.2	1.0
7-11 mos old	1,030	95.0	1.0	257	99.0 *	0.6	170	› 92.6	2.6	543	›››93.4	1.5
1 year old	1,338	60.0	2.7	428	70.0	4.0	258	69.5	3.8	544	›› 52.9	3.7
2 years old	1,344	23.0	1.6	422	30.6	3.2	251	26.5	3.9	585	›››18.3	2.0
3 years old	1,178	9.5	1.8	386	15.5	4.4	245	11.6	3.3	478	› 6.0	1.6
4 years old	1,158	3.7	1.1	354	10.7	4.0	250	› 1.8 *	0.7	482	› 1.8 *	0.7
5 years old	1,105	0.2 *	0.1	339	0.6 *	0.3	215	0.4 *	0.2	493	0.0	0.0
Total, age adjusted	8,228	31.8	0.9	2,431	37.5	1.8	1,558	33.7	1.2	3,712	›››28.8	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-131—Percent of children who stopped using a baby bottle before 1 year of age: Ages 1-5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
1 year old	1,219	9.8	1.0	398	8.6	1.6	223	10.5	3.7	497	10.6	1.8
2 years old	1,294	12.3	1.3	409	9.6	1.8	245	12.8	2.7	560	13.9	2.1
3 years old	1,136	12.2	1.6	375	8.4	2.0	234	9.4	2.4	462	14.8	2.5
4 years old	1,118	13.9	1.8	350	13.9	3.3	238	15.3	4.2	461	13.0	2.3
5 years old	1,059	15.3	1.3	334	16.0	2.6	201	20.7	5.5	469	14.4	1.6
Total, age adjusted	5,826	12.7	0.8	1,866	11.3	1.6	1,141	13.8	1.6	2,449	13.4	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample for table includes children who ever used a bottle.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-132—Mean age when stopped using a baby bottle: Ages 1-5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Mean age (mos)	Standard Error	Number	Mean age (mos)	Standard Error	Number	Mean age (mos)	Standard Error	Number	Mean age (mos)	Standard Error
1 year old	410	13.4	0.3	116	14.1	1.1	64	14.0 *	0.8	204	12.8	0.2
2 years old	940	15.8	0.4	291	15.8	0.5	170	15.6	0.7	434	15.9	0.6
3 years old	1,009	17.6	0.4	320	18.2	0.7	205	17.6	1.0	433	17.4	0.5
4 years old	1,075	18.2	0.5	328	18.3	1.2	227	17.4	0.8	452	18.4	0.8
5 years old	1,051	18.2	0.5	330	19.1	1.0	198	19.1	1.2	469	17.7	0.5
Total, age adjusted	4,485	16.7	0.2	1,385	17.1	0.5	864	16.8	0.4	1,992	16.4	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample for table includes children who ever used a bottle, were not still using a bottle, and reported age when stopped.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-133—Percent of infants and children fed solid foods on a daily basis before 4 months of age: Ages 2 months to 5 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error	Number	Percent	Standard Error
2-6 mos old	1,076	30.4	1.7	245	29.2	3.5	169	27.5	4.6	588	30.9	2.2
7-11 mos old	1,031	23.5	1.6	257	17.8	2.5	171	24.5	3.0	543	› 24.9	2.0
1 year old	1,339	22.1	1.8	428	22.3	3.3	259	21.2	4.3	544	21.0	2.4
2 years old	1,350	21.6	1.7	423	22.2	2.7	251	22.5	4.5	590	20.2	2.3
3 years old	1,186	23.9	2.1	389	15.0	2.8	247	25.4	5.0	481	››› 26.7	2.7
4 years old	1,169	21.6	1.8	355	16.0	2.6	256	22.7	3.7	486	› 22.8	2.1
5 years old	1,110	26.6	2.2	339	18.7	4.9	217	27.9	7.5	495	27.6	3.2
Total, age adjusted	8,261	23.8	1.0	2,436	19.6	1.7	1,570	› 24.3	1.8	3,727	› 24.4	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-134—Mean age when first fed solid foods on a daily basis: Ages 2 months to 5 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Number Fed Solids	Mean Age (mos)	Standard Error	Number Fed Solids	Mean Age (mos)	Standard Error	Number Fed Solids	Mean Age (mos)	Standard Error	Number Fed Solids	Mean Age (mos)	Standard Error
2-6 mos old	665	3.3	0.1	130	3.3	0.1	99	3.3	0.2	386	3.3	0.1
7-11 mos old	999	4.7	0.1	239	4.9	0.1	164	5.0	0.2	536	›› 4.5	0.1
1 year old	1,325	5.5	0.1	423	6.0	0.3	257	5.8	0.3	538	› 5.3	0.1
2 years old	1,338	6.0	0.1	419	6.5	0.3	249	6.1	0.3	588	› 5.8	0.1
3 years old	1,166	5.9	0.1	381	7.2	0.4	242	› 6.2	0.3	474	››› 5.4	0.2
4 years old	1,150	6.0	0.2	351	6.9	0.6	247	6.0	0.3	480	5.7	0.2
5 years old	1,094	6.1	0.3	336	6.8	0.4	214	6.5	0.7	487	5.8	0.4
Total, age adjusted	7,737	5.6	0.1	2,279	6.3	0.2	1,472	5.8	0.2	3,489	››› 5.3	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Estimates of mean age for infants under 1 year old may be biased by the large percent of infants not yet eating solid foods.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-135—Frequency of vigorous physical activity per week among children ages 8-16-years-old

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error
Both sexes												
8-10 years	1,550	4.7	0.1	428	4.8	0.2	335	4.7	0.2	699	4.7	0.1
11-13 years	1,365	5.0	0.1	384	4.3	0.2	286	4.9	0.3	616	›››5.1	0.1
14-16 years	1,106	4.6	0.1	279	4.3	0.3	228	4.2	0.3	534	4.7	0.2
Total, age adjusted	4,021	4.7	0.1	1,091	4.4	0.1	849	4.6	0.2	1,849	›› 4.8	0.1
Male												
8-10 years	801	4.9	0.1	224	4.8	0.3	165	4.9	0.3	361	4.9	0.2
11-13 years	655	5.4	0.2	178	4.6	0.3	142	5.4	0.4	302	›› 5.6	0.2
14-16 years	531	5.3	0.2	140	4.7	0.4	112	› 5.7	0.3	241	5.4	0.2
Total, age adjusted	1,987	5.2	0.1	542	4.7	0.2	419	› 5.3	0.2	904	›› 5.3	0.1
Female												
8-10 years	749	4.5	0.1	204	4.7	0.4	170	4.4	0.3	338	4.4	0.1
11-13 years	710	4.5	0.1	206	4.0	0.3	144	4.3	0.3	314	› 4.6	0.1
14-16 years	575	3.8	0.1	139	3.7	0.3	116	3.0	0.3	293	4.0	0.2
Total, age adjusted	2,034	4.2	0.1	549	4.1	0.2	430	3.9	0.2	945	4.4	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-136—Frequency of vigorous physical activity per week among healthy weight and overweight children ages 8-16-years-old

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error	Sample size	Mean times per week	Standard Error
	Healthy weight children											
Both sexes												
8-10 years	1,100	4.6	0.1	318	4.7	0.2	235	4.5	0.2	490	4.6	0.1
11-13 years	913	4.9	0.1	266	4.4	0.2	178	4.7	0.3	419	›› 5.0	0.1
14-16 years	785	4.6	0.1	186	4.4	0.4	150	4.1	0.4	399	4.8	0.2
Total, age adjusted	2,798	4.7	0.1	770	4.5	0.2	563	4.4	0.2	1,308	4.8	0.1
Male												
8-10 years	570	4.7	0.2	167	4.8	0.4	118	4.7	0.3	253	4.6	0.2
11-13 years	445	5.3	0.2	124	4.7	0.3	94	5.0 *	0.4	210	› 5.5	0.2
14-16 years	394	5.4	0.2	102	5.0	0.5	79	5.6 *	0.3	182	5.5	0.3
Total, age adjusted	1,409	5.1	0.1	393	4.8	0.2	291	5.1	0.2	645	5.2	0.1
Female												
8-10 years	530	4.5	0.1	151	4.6	0.4	117	4.4	0.3	237	4.5	0.2
11-13 years	468	4.4	0.1	142	4.2	0.4	84	4.4 *	0.4	209	4.4	0.2
14-16 years	391	3.9	0.1	84	3.8 *	0.4	71	2.9 *	0.3	217	4.1	0.2
Total, age adjusted	1,389	4.3	0.1	377	4.2	0.2	272	3.9	0.2	663	4.4	0.1
	Children who are overweight or at risk of overweight											
Both sexes												
8-10 years	439	5.0	0.2	107	4.9	0.3	95	5.1	0.3	208	5.0	0.2
11-13 years	434	5.2	0.2	116	4.0	0.4	102	›› 5.3	0.4	188	›› 5.6	0.2
14-16 years	297	4.3	0.2	82	4.0 *	0.4	73	4.5 *	0.5	128	4.4	0.4
Total, age adjusted	1,170	4.8	0.1	305	4.3	0.2	270	› 5.0	0.3	524	›› 5.0	0.2
Male												
8-10 years	227	5.5	0.2	56	4.8 *	0.5	45	5.5 *	0.4	108	5.7	0.3
11-13 years	200	5.6	0.3	53	4.5 *	0.7	44	› 6.2 *	0.4	88	5.7	0.4
14-16 years	130	5.1	0.3	34	4.1 *	0.6	31	› 5.8 *	0.6	58	5.2 *	0.5
Total, age adjusted	557	5.4	0.2	143	4.5	0.4	120	›› 5.8	0.3	254	› 5.5	0.2
Female												
8-10 years	212	4.3	0.2	51	5.0 *	0.3	50	4.5 *	0.3	100	4.2	0.3
11-13 years	234	4.8	0.3	63	3.6 *	0.5	58	4.3 *	0.4	100	›› 5.4	0.3
14-16 years	167	3.5	0.3	48	3.7 *	0.5	42	3.3 *	0.5	70	3.6 *	0.4
Total, age adjusted	613	4.2	0.2	162	4.1	0.3	150	4.0	0.2	270	4.4	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-137—Percent of children with vigorous physical activity at least three times per week: Ages 8-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
8-10 years	1,550	77.8	1.6	428	75.9	3.2	335	83.8	3.0	699	77.0	2.5
11-13 years	1,365	84.7	1.3	384	76.8	4.3	286	80.0	4.3	616	› 87.6	1.6
14-16 years	1,106	76.6	2.4	279	69.2	6.7	228	75.2	4.6	534	78.2	2.9
Total, age adjusted	4,021	79.7	1.1	1,091	74.0	2.7	849	79.8	2.4	1,849	› 80.9	1.6
Male												
8-10 years	801	78.5	2.6	224	81.2	3.2	165	86.4 *	3.5	361	75.6	3.7
11-13 years	655	87.8	2.4	178	82.1 *	5.8	142	86.4 *	4.5	302	89.0	3.0
14-16 years	531	85.6	2.9	140	75.9	7.8	112	› 94.3 *	1.6	241	85.9	3.4
Total, age adjusted	1,987	83.9	2.0	542	79.8	4.1	419	› 89.0	2.1	904	83.4	2.4
Female												
8-10 years	749	77.2	2.0	204	70.4	7.2	170	80.9	4.3	338	78.3	2.7
11-13 years	710	81.4	2.5	206	72.2	6.3	144	72.8	4.8	314	› 86.1	2.3
14-16 years	575	67.3	3.1	139	60.7	7.6	116	59.2	8.0	293	70.9	3.5
Total, age adjusted	2,034	75.3	1.1	549	67.8	3.5	430	71.1	3.4	945	›› 78.4	1.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-138—Percent of healthy weight and overweight children with vigorous physical activity at least three times per week: Ages 8-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	Healthy weight children											
Both sexes												
8-10 years	1,100	76.0	1.8	318	72.0	3.9	235	83.0	3.5	490	74.8	2.6
11-13 years	913	84.1	1.5	266	78.4	3.9	178	79.4	6.0	419	86.4	1.7
14-16 years	785	78.2	2.6	186	70.8	9.2	150	72.8	5.7	399	80.4	3.0
Total, age adjusted	2,798	79.4	1.2	770	73.7	3.5	563	78.5	3.0	1,308	80.4	1.6
Male												
8-10 years	570	74.6	3.2	167	76.4	4.7	118	84.7 *	4.1	253	70.9	4.3
11-13 years	445	87.4	2.7	124	84.6 *	4.7	94	84.4 *	5.8	210	88.4	3.2
14-16 years	394	87.2	3.2	102	78.2 *	9.5	79	93.1 *	2.4	182	88.2	3.6
Total, age adjusted	1,409	82.9	2.0	393	79.7	4.2	291	87.4	2.6	645	82.3	2.4
Female												
8-10 years	530	77.5	2.2	151	67.9	8.6	117	81.3 *	5.0	237	78.8	2.4
11-13 years	468	80.5	3.0	142	72.7	7.2	84	73.8 *	7.6	209	84.2	2.9
14-16 years	391	68.9	3.1	84	61.2 *	10.1	71	57.0 *	8.6	217	72.9	3.4
Total, age adjusted	1,389	75.7	1.3	377	67.3	4.8	272	70.9	3.8	663	› 78.6	1.4
	Children who are overweight or at risk of overweight											
Both sexes												
8-10 years	439	83.0	3.6	107	90.2 *	3.8	95	86.6 *	4.6	208	82.6	4.9
11-13 years	434	86.5	2.8	116	73.6	8.9	102	81.0	4.2	188	› 92.5 *	3.2
14-16 years	297	71.0	4.4	82	65.7 *	9.5	73	76.8 *	9.1	128	70.1	6.6
Total, age adjusted	1,170	80.2	2.1	305	76.7	4.5	270	81.5	3.9	524	81.8	3.2
Male												
8-10 years	227	88.8 *	3.7	56	92.9 *	2.8	45	91.8 *	5.5	108	88.3 *	5.0
11-13 years	200	88.2 *	4.1	53	76.9 *	13.0	44	89.6 *	5.3	88	90.9 *	5.3
14-16 years	130	81.1 *	5.4	34	70.4 *	13.6	31	96.6 *	2.2	58	78.5 *	8.1
Total, age adjusted	557	86.1	3.4	143	80.3	8.3	120	92.7 *	2.9	254	85.9	4.7
Female												
8-10 years	212	75.9	5.5	51	85.6 *	7.8	50	78.8 *	7.2	100	76.1 *	7.8
11-13 years	234	84.6	3.8	63	71.0 *	12.0	58	71.3 *	6.9	100	94.5 *	1.7
14-16 years	167	60.3	6.9	48	60.2 *	12.7	42	57.3 *	14.2	70	61.5 *	10.1
Total, age adjusted	613	73.7	2.8	162	72.5	5.9	150	69.3	5.6	270	77.4	3.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-139—Percent of children participating in organized exercise program or sports team in past year: Ages 8-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
8-10 years	1,550	58.7	2.70	428	46.0	5.92	334	45.9	5.24	700	›› 65.2	3.69
11-13 years	1,367	69.7	1.81	386	54.8	4.02	285	61.6	4.55	616	››› 74.9	2.31
14-16 years	1,104	58.7	2.23	278	48.3	4.25	228	45.7	5.42	533	›› 64.2	3.09
Total, age adjusted	4,021	62.3	1.25	1,092	49.6	2.95	847	51.0	3.95	1,849	››› 68.1	1.65
Male												
8-10 years	796	66.7	2.87	223	56.4	6.76	160	60.6	7.84	362	71.1	4.33
11-13 years	658	74.0	2.52	180	64.1	6.79	142	65.3	7.76	302	77.3	3.23
14-16 years	531	61.1	3.28	140	48.1	6.35	112	60.6	8.71	241	› 65.3	4.52
Total, age adjusted	1,985	67.3	1.69	543	56.2	3.94	414	62.2	6.39	905	››› 71.2	2.16
Female												
8-10 years	754	50.2	3.55	205	34.6	6.84	174	29.8	6.28	338	›› 59.1	4.47
11-13 years	709	64.9	2.83	206	46.6	4.62	143	57.4	7.02	314	››› 72.3	3.70
14-16 years	573	56.3	2.76	138	48.5	8.36	116	33.1	8.12	292	63.2	3.48
Total, age adjusted	2,036	57.0	1.46	549	43.1	3.49	433	40.0	3.93	944	››› 64.7	2.18

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-140—Percent of healthy weight and overweight children participating in organized exercise program or sports team in past year: Ages 8-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Healthy weight children												
Both sexes												
8-10 years	1,098	58.4	2.9	318	47.4	7.6	233	44.9	5.4	490	› 65.3	3.9
11-13 years	913	73.4	2.6	267	61.7	4.1	177	68.0	4.8	419	›› 77.2	3.1
14-16 years	784	64.8	2.5	185	59.6	4.5	150	55.0	7.2	399	67.8	3.1
Total, age adjusted	2,795	65.4	1.5	770	56.1	3.2	560	55.8	3.8	1,308	››› 70.0	1.9
Male												
8-10 years	565	67.6	3.7	167	64.5	7.2	113	62.8	8.1	253	69.9	4.9
11-13 years	445	79.2	3.1	125	72.0	6.4	93	70.2	7.3	210	82.0	4.0
14-16 years	394	65.8	3.8	102	61.4 *	8.6	79	72.6 *	8.2	182	66.6	5.0
Total, age adjusted	1,404	70.8	2.1	394	65.9	4.0	285	68.5	5.1	645	72.8	2.7
Female												
8-10 years	533	49.4	4.2	151	30.8	8.7	120	26.9	6.7	237	›› 60.6	5.5
11-13 years	468	67.2	3.8	142	52.3	4.9	84	65.5	8.0	209	››› 71.9	4.5
14-16 years	390	63.6	3.3	83	57.3 *	8.5	71	41.3 *	11.4	217	68.8	3.7
Total, age adjusted	1,391	59.9	2.0	376	46.6	4.0	275	44.3	4.6	663	››› 67.0	2.7
Children who are overweight or at risk of overweight												
Both sexes												
8-10 years	1,098	59.4	4.6	318	42.1	8.2	233	49.6 *	11.6	490	› 64.4	5.3
11-13 years	913	59.9	4.2	267	41.5	7.4	177	50.1 *	8.8	419	›› 67.8	5.1
14-16 years	784	41.6	4.9	185	29.7 *	8.4	150	27.1 *	8.8	399	› 51.2	6.4
Total, age adjusted	2,795	53.7	2.4	770	37.8	5.0	560	42.4	6.7	1,308	››› 61.2	3.2
Male												
8-10 years	565	64.9	7.4	167	35.8 *	12.0	113	55.1 *	16.6	253	› 74.2	8.8
11-13 years	445	61.2	7.0	125	48.4 *	11.1	93	56.1 *	15.2	210	63.2	9.2
14-16 years	394	49.8	7.3	102	26.2 *	11.5	79	47.7 *	14.2	182	› 60.6 *	10.2
Total, age adjusted	1,404	58.7	3.7	394	36.8	6.8	285	53.0 *	10.5	645	››› 66.1	5.1
Female												
8-10 years	533	52.5	6.3	151	52.6 *	10.0	120	41.5 *	13.4	237	53.1	8.0
11-13 years	468	58.5	4.9	142	36.0 *	8.6	84	43.4 *	12.5	209	››› 73.4	5.2
14-16 years	390	32.9	5.7	83	33.8 *	12.1	71	› 7.1 *	4.0	217	41.4 *	8.8
Total, age adjusted	1,391	48.1	3.4	376	41.0	5.0	275	30.8	6.4	663	› 56.0	4.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file; youth ages 8-16 only. Total includes persons with missing food stamp participation or income.

Table D-141—Mean hours of television watched by children ages 5-16-years-old

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Std Error	Sample size	Mean	Std Error	Sample size	Mean	Std Error	Sample size	Mean	Std Error
Both sexes												
5-7 years	2,228	2.1	0.07	676	2.4	0.09	440	2.3	0.17	973	›› 2.0	0.10
8-10 years	1,706	1.9	0.07	463	2.3	0.16	359	2.1	0.13	779	›› 1.8	0.08
11-13 years	1,498	2.2	0.07	415	2.6	0.14	306	2.4	0.12	681	› 2.1	0.09
14-16 years	1,288	2.0	0.06	326	2.1	0.17	269	2.1	0.20	605	2.0	0.08
Total, age adjusted	6,720	2.1	0.04	1,880	2.4	0.09	1,374	2.2	0.11	3,038	››› 2.0	0.05
Male												
5-7 years	1,098	2.2	0.10	315	2.4	0.14	214	2.4	0.21	492	2.2	0.13
8-10 years	887	2.0	0.09	240	2.4	0.17	174	2.0	0.13	414	› 1.9	0.11
11-13 years	715	2.2	0.07	192	2.4	0.21	149	2.4	0.19	330	2.2	0.09
14-16 years	598	2.1	0.08	154	2.2	0.22	129	2.1	0.21	268	2.1	0.12
Total, age adjusted	3,298	2.2	0.05	901	2.4	0.10	666	2.2	0.12	1,504	› 2.1	0.06
Female												
5-7 years	1,130	2.0	0.07	361	2.4	0.11	226	2.2	0.19	481	››› 1.8	0.11
8-10 years	819	1.8	0.09	223	2.2	0.23	185	2.2	0.22	365	› 1.6	0.10
11-13 years	783	2.2	0.11	223	2.7	0.16	157	2.5	0.18	351	››› 2.0	0.13
14-16 years	690	1.9	0.10	172	2.1	0.20	140	2.2	0.29	337	1.9	0.11
Total, age adjusted	3,422	2.0	0.05	979	2.4	0.12	708	2.2	0.14	1,534	››› 1.8	0.07

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file; ages 5-16 only. Total includes persons with missing food stamp participation or income.

Table D-142—Percent of children who watch 2 hours or less of television daily: Ages 5-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error
Both sexes												
5-7 years	2,228	64.8	2.1	676	53.4	3.3	440	55.5	5.1	973	›››70.0	2.7
8-10 years	1,706	67.9	2.2	463	52.1	4.4	359	›› 69.4	5.0	779	›››71.2	2.4
11-13 years	1,498	59.9	2.4	415	51.8	4.5	306	53.0	5.7	681	62.2	3.2
14-16 years	1,288	66.9	1.9	326	63.1	4.8	269	63.2	6.5	605	68.5	2.6
Total, age adjusted	6,720	64.9	1.4	1,880	55.0	2.4	1,374	60.4	4.2	3,038	›››68.0	1.5
Male												
5-7 years	1,098	62.0	2.8	315	50.9	5.1	214	53.8	5.4	492	› 66.1	3.8
8-10 years	887	65.6	3.0	240	47.7	6.5	174	›› 71.9	6.0	414	›› 68.3	3.3
11-13 years	715	59.1	3.1	192	51.4	6.7	149	49.8	10.6	330	61.2	3.6
14-16 years	598	65.6	2.7	154	62.1	6.6	129	68.9	7.6	268	65.6	3.7
Total, age adjusted	3,298	63.1	1.9	901	53.0	3.3	666	61.2	5.8	1,504	›››65.3	1.8
Female												
5-7 years	1,130	67.8	2.2	361	55.3	4.2	226	57.1	6.6	481	›››74.9	3.3
8-10 years	819	70.4	2.8	223	56.6	5.7	185	66.9	6.5	365	›› 74.4	3.5
11-13 years	783	60.7	3.3	223	52.2	5.5	157	56.4	5.6	351	63.4	4.2
14-16 years	690	68.1	2.4	172	64.0	4.9	140	58.7	9.0	337	71.2	3.0
Total, age adjusted	3,422	66.8	1.5	979	57.0	3.2	708	59.8	4.2	1,534	›››71.0	2.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file; ages 5-16 only. Total includes persons with missing food stamp participation or income.

Table D-143—Mean hours television watched by healthy weight and overweight children ages 5-16-years-old

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Std Error	Sample size	Mean	Std Error	Sample size	Mean	Std Error	Sample size	Mean	Std Error
Healthy weight children												
Both sexes												
5-7 years	1,612	2.0	0.08	510	2.4	0.10	310	2.2	0.19	716	›››1.9	0.10
8-10 years	1,154	1.8	0.06	338	2.3	0.16	245	2.0	0.14	511	›› 1.7	0.09
11-13 years	945	2.0	0.08	275	2.2	0.18	184	2.3	0.17	434	1.9	0.10
14-16 years	839	2.0	0.09	202	1.9	0.20	171	2.1	0.26	411	1.9	0.11
Total, age adjusted	4,550	2.0	0.04	1,325	2.2	0.08	910	2.2	0.13	2,072	›››1.9	0.05
Male												
5-7 years	788	2.1	0.11	236	2.4	0.19	150	2.2	0.21	367	2.1	0.15
8-10 years	595	2.0	0.09	175	2.5	0.21	121	2.0 *	0.14	265	› 1.9	0.13
11-13 years	457	2.1	0.09	129	2.1	0.26	95	2.2 *	0.27	216	2.1	0.11
14-16 years	421	2.2	0.12	110	2.0 *	0.25	90	2.3 *	0.24	186	2.2	0.17
Total, age adjusted	2,261	2.1	0.06	650	2.2	0.09	456	2.2	0.14	1,034	2.1	0.07
Female												
5-7 years	824	1.9	0.09	274	2.4	0.13	160	2.2	0.25	349	›››1.6	0.12
8-10 years	559	1.7	0.10	163	2.1	0.23	124	2.0 *	0.24	246	›› 1.5	0.12
11-13 years	488	2.0	0.13	146	2.4	0.20	89	2.4 *	0.24	218	›› 1.8	0.17
14-16 years	418	1.7	0.09	92	1.8 *	0.17	81	2.0 *	0.37	225	1.7	0.11
Total, age adjusted	2,289	1.8	0.05	675	2.2	0.10	454	2.2	0.17	1,038	›››1.6	0.07
Children who are overweight or at risk of overweight												
Both sexes												
5-7 years	473	2.4	0.13	140	2.4	0.20	107	2.6	0.22	191	2.3	0.21
8-10 years	455	2.1	0.13	112	2.2	0.30	98	2.2	0.35	215	2.0	0.13
11-13 years	454	2.6	0.14	120	3.2	0.16	107	›› 2.5	0.20	194	› 2.5	0.21
14-16 years	305	2.3	0.16	86	2.6	0.32	76	2.0 *	0.31	128	2.3	0.20
Total, age adjusted	1,687	2.3	0.08	458	2.6	0.15	388	2.4	0.16	728	2.3	0.11
Male												
5-7 years	228	2.6	0.22	65	2.5 *	0.38	51	2.9 *	0.35	92	2.5	0.33
8-10 years	237	2.0	0.19	58	2.2 *	0.39	46	2.0 *	0.45	115	2.0	0.20
11-13 years	210	2.6	0.21	55	3.1 *	0.22	46	2.6 *	0.24	91	2.5	0.33
14-16 years	133	2.1	0.22	35	2.6 *	0.49	32	2.0 *	0.39	59	2.1 *	0.30
Total, age adjusted	808	2.3	0.13	213	2.6	0.22	175	2.4	0.23	357	2.2	0.16
Female												
5-7 years	245	2.2	0.12	75	2.4 *	0.22	56	2.5 *	0.23	99	2.2	0.23
8-10 years	218	2.2	0.13	54	2.3 *	0.36	52	2.5 *	0.48	100	2.1	0.18
11-13 years	244	2.7	0.18	65	3.3 *	0.24	61	› 2.4 *	0.29	103	› 2.6	0.22
14-16 years	172	2.4	0.23	51	2.6 *	0.42	44	1.9 *	0.44	69	2.6 *	0.28
Total, age adjusted	879	2.4	0.09	245	2.6	0.19	213	2.3	0.20	371	2.4	0.11

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file; ages 5-16 only. Total includes persons with missing food stamp participation or income.

Table D-144—Percent of healthy weight and overweight children who watch 2 hours or less of television daily: Ages 5-16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error	Sample size	Percent	Std Error
Healthy weight children												
Both sexes												
5-7 years	1,612	68.4	2.2	510	54.7	3.4	310	58.8	6.0	716	›››74.2	3.0
8-10 years	1,154	70.8	2.3	338	52.2	5.3	245	›› 74.1	5.0	511	›››74.6	2.8
11-13 years	945	65.1	2.9	275	64.4	4.9	184	56.5	7.1	434	66.6	3.7
14-16 years	839	69.2	2.6	202	69.1	6.0	171	65.6	8.8	411	70.2	3.2
Total, age adjusted	4,550	68.4	1.6	1,325	60.0	2.6	910	63.9	4.8	2,072	›››71.4	1.8
Male												
5-7 years	788	66.7	3.1	236	52.8	5.7	150	59.5 *	6.0	367	› 70.6	4.4
8-10 years	595	66.8	3.1	175	48.4	8.2	121	›› 77.5 *	5.9	265	› 68.9	3.8
11-13 years	457	63.7	3.9	129	66.6	7.0	95	54.8 *	11.7	216	64.7	4.4
14-16 years	421	65.0	3.5	110	63.4	7.3	90	67.6 *	9.1	186	65.3	4.8
Total, age adjusted	2,261	65.6	2.2	650	57.7	3.0	456	65.0	6.0	1,034	›› 67.4	2.3
Female												
5-7 years	824	70.2	2.8	274	56.0	5.1	160	58.0 *	7.8	349	›››78.9	4.0
8-10 years	559	74.8	3.0	163	55.7	6.7	124	70.6 *	6.9	246	›››80.4	3.5
11-13 years	488	66.6	3.8	146	62.4	6.0	89	58.4 *	7.4	218	68.8	4.8
14-16 years	418	73.5	3.0	92	76.7 *	5.6	81	64.1 *	11.9	225	74.8	3.6
Total, age adjusted	2,289	71.3	1.6	675	62.6	3.4	454	62.8	4.9	1,038	›››75.8	2.1
Children who are overweight or at risk of overweight												
Both sexes												
5-7 years	473	51.9	4.5	140	46.5	7.4	107	39.4 *	8.2	191	54.7	6.6
8-10 years	455	61.2	4.2	112	57.3	8.0	98	57.0 *	10.6	215	62.1	4.8
11-13 years	454	47.0	5.1	120	29.1	4.8	107	47.6 *	11.1	194	›› 49.7	6.4
14-16 years	305	59.6	4.6	86	53.9	8.7	76	61.5 *	9.3	128	59.8	6.6
Total, age adjusted	1,687	55.0	2.5	458	46.8	3.9	388	51.4	5.5	728	56.6	3.4
Male												
5-7 years	228	46.3	7.2	65	47.2 *	13.2	51	32.0 *	10.4	92	47.8	10.6
8-10 years	237	66.0	5.6	58	54.1 *	10.8	46	57.5 *	15.9	115	68.7	5.8
11-13 years	210	48.9	7.1	55	24.9 *	7.4	46	40.8 *	16.1	91	›› 54.4	9.0
14-16 years	133	63.1	6.8	35	61.3 *	15.0	32	66.1 *	12.5	59	61.2 *	9.6
Total, age adjusted	808	56.2	4.0	213	46.9	6.3	175	49.2	9.0	357	58.1	4.7
Female												
5-7 years	245	57.1	4.6	75	45.8 *	8.2	56	45.1 *	10.1	99	62.0	6.9
8-10 years	218	55.2	5.6	54	61.8 *	7.6	52	56.5 *	13.3	100	54.1	7.4
11-13 years	244	44.8	5.8	65	32.7 *	8.5	61	55.0 *	12.0	103	43.7	6.8
14-16 years	172	56.0	6.3	51	46.7 *	7.4	44	57.6 *	13.6	69	58.4 *	8.4
Total, age adjusted	879	53.3	3.0	245	46.9	4.0	213	53.6	6.7	371	54.6	4.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file; ages 5-16 only. Total includes persons with missing food stamp participation or income.

Table D-145—Distribution of persons by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
All persons																				
Both sexes																				
17-19 years	1,225	8.6	9.9	16.8	64.6	251	23.2	13.8	15.3	47.6	301	10.3	8.5	15.8	› 65.4	539	›› 5.5	9.8	18.1	›› 66.6
20-29 years	3,783	11.5	16.9	18.0	53.6	676	21.0	24.0	22.5	32.4	874	19.0	17.1	19.9	›› 44.0	1,931	››› 7.9	15.4	16.9	››› 59.8
30-39 years	3,594	12.3	19.1	19.5	49.1	578	23.4	29.2	20.5	26.9	623	16.0	22.0	22.1	› 40.0	2,165	›› 10.3	› 17.6	19.2	››› 52.9
40-49 years	2,794	13.6	22.4	22.9	41.2	372	36.7	32.2	18.1	13.0	416	25.0	29.0	22.0	› 24.0	1,796	››› 10.3	21.4	23.2	››› 45.2
50-59 years	2,058	16.4	26.0	24.4	33.2	219	34.5	36.0	18.5	11.0	279	28.3	30.4	22.7	18.6	1,386	››› 13.6	24.5	24.8	››› 37.1
60-69 years	2,608	18.5	27.2	26.0	28.3	306	45.6	34.9	15.5	4.0	497	›› 27.9	29.2	22.5	›› 20.4	1,540	››› 14.8	26.3	› 27.8	››› 31.1
70-79 years	2,156	26.2	30.8	20.8	22.2	197	47.8	33.7	12.9	5.5	452	36.3	39.4	16.8	7.4	1,268	›› 22.2	28.2	› 22.9	››› 26.7
80 + years	1,832	44.6	31.7	14.6	9.1	151	60.9	22.6	12.2	4.3	447	51.3	30.1	15.0	3.6	918	››› 36.7	›› 34.9	16.0	›› 12.4
Total, age adjusted	20,050	15.9	22.1	21.0	41.0	2,750	33.0	29.6	18.3	19.1	3,889	››› 24.1	25.4	20.7	››› 29.8	11,543	››› 12.6	›› 21.0	21.3	››› 45.1
Healthy weight persons[1]																				
Both sexes																				
17-19 years	780	7.3	9.5	17.6	65.5	148	17.3	13.7	16.8	52.2	185	6.5	8.6	17.5	67.3	365	5.7	9.3	18.4	66.6
20-29 years	1,916	11.4	17.0	15.6	56.0	316	19.0	27.1	22.1	31.9	439	16.6	15.9	17.0	› 50.5	1,014	›› 8.7	15.9	14.6	››› 60.8
30-39 years	1,340	10.6	19.2	19.3	50.9	191	25.5	28.0	24.1	22.4	215	17.2	20.6	20.7	› 41.4	866	7.6	18.3	18.6	››› 55.5
40-49 years	827	10.7	19.9	24.2	45.2	90	53.1	18.5	15.5	12.9	114	› 18.8	33.2	25.2	22.8	576	››› 7.6	18.9	24.0	››› 49.6
50-59 years	548	15.8	21.9	26.9	35.5	55	37.7	25.6	34.0	2.6	79	23.2	27.4	19.7	29.7	380	› 13.5	20.4	27.4	››› 38.7
60-69 years	675	17.2	25.4	24.0	33.5	87	46.0	29.5	19.7	4.9	119	› 18.8	36.9	24.4	19.9	416	›› 16.0	23.9	23.6	››› 36.4
70-79 years	649	22.4	29.6	22.3	25.7	53	40.2	28.0	21.7	10.1	129	36.6	42.8	13.6	7.0	397	18.1	27.0	24.8	› 30.1
80 + years	591	37.4	35.2	17.2	10.2	51	55.7	29.4	10.9	4.0	134	45.1	31.8	19.0	4.1	324	29.4	38.4	18.0	›› 14.3
Total, age adjusted	7,326	14.0	20.9	21.2	43.8	991	35.7	25.0	21.8	17.5	1,414	››› 20.6	26.4	20.4	››› 32.6	4,338	››› 11.1	19.9	21.2	››› 47.8
Overweight and obese persons[1]																				
Both sexes																				
17-19 years	350	11.6	12.3	14.3	61.8	90	34.6	14.4	13.2	37.7	92	15.9	10.7	16.0	57.4	134	2.1	12.0	15.2	› 70.7
20-29 years	1,584	11.5	16.1	21.3	51.1	340	22.5	19.9	24.1	33.5	379	19.0	15.0	25.0	41.1	749	››› 6.7	15.5	19.7	››› 58.1
30-39 years	1,985	13.8	20.2	19.5	46.4	355	21.2	31.6	17.9	29.2	382	15.6	23.8	18.2	42.4	1,124	› 12.6	18.3	20.3	››› 48.8
40-49 years	1,751	15.3	24.8	20.8	39.2	265	30.6	38.5	20.4	10.6	279	25.9	31.4	15.9	› 26.8	1,075	››› 12.2	23.5	21.2	››› 43.2
50-59 years	1,300	16.5	26.9	24.5	32.1	148	35.1	37.6	11.4	15.8	178	29.2	32.2	25.4	13.2	865	›› 13.6	24.9	››› 25.2	› 36.4
60-69 years	1,621	18.3	27.7	28.2	25.8	180	47.3	32.1	15.7	4.8	321	29.4	29.2	21.0	› 20.3	956	››› 14.1	26.9	›› 30.7	››› 28.3
70-79 years	1,095	24.0	32.1	21.8	22.2	105	54.6	28.4	9.7	7.3	234	››› 31.6	43.4	16.0	8.9	660	››› 19.7	29.1	›› 24.5	››› 26.7
80 + years	641	38.3	36.4	16.3	9.0	62	54.6	31.6	13.3	0.5	159	44.0	34.0	18.4	3.7	344	32.0	38.8	15.8	››› 13.4
Total, age adjusted	10,327	16.3	23.3	21.4	39.1	1,545	32.7	30.6	17.2	19.4	2,024	›› 24.1	26.8	19.9	››› 29.2	5,907	››› 12.6	› 22.0	21.9	››› 43.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.
[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-146—Standard errors for distribution of persons by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
	All persons																			
Both sexes																				
17-19 years	1,225	1.2	1.3	1.7	2.2	251	5.6	2.2	2.9	5.3	301	2.5	1.8	3.6	4.4	539	1.2	1.8	2.7	2.3
20-29 years	3,783	0.7	1.2	1.2	1.5	676	2.4	3.3	3.5	2.7	874	2.0	2.2	2.3	2.5	1,931	0.8	1.4	1.4	1.8
30-39 years	3,594	1.1	1.3	1.2	1.9	578	3.8	3.7	3.5	3.1	623	2.2	2.5	2.9	3.2	2,165	1.3	1.5	1.4	2.2
40-49 years	2,794	0.9	1.4	1.1	1.8	372	4.6	5.0	4.2	2.2	416	3.3	4.6	4.5	4.6	1,796	0.9	1.4	1.3	2.0
50-59 years	2,058	1.3	1.5	1.4	2.0	219	5.6	7.3	3.6	4.3	279	4.2	4.2	4.6	4.5	1,386	1.3	1.6	1.6	2.3
60-69 years	2,608	1.1	1.5	1.5	1.8	306	5.4	5.0	3.8	1.8	497	2.6	3.7	3.0	3.8	1,540	1.3	1.9	1.6	2.1
70-79 years	2,156	1.7	1.0	1.2	1.6	197	7.3	8.2	3.5	2.2	452	3.1	3.0	1.6	1.9	1,268	1.7	1.5	1.7	2.0
80 + years	1,832	2.6	1.6	1.1	1.0	151	4.6	3.4	2.7	1.9	447	2.0	2.3	1.7	0.9	918	3.9	2.3	1.5	1.9
Total, age adjusted	20,050	0.7	0.7	0.5	1.2	2,750	1.5	2.3	1.7	1.2	3,889	1.2	1.3	1.5	1.4	11,543	0.7	0.8	0.6	1.2
	Healthy weight persons[1]																			
Both sexes																				
17-19 years	780	1.4	1.4	1.7	2.3	148	5.2	3.1	4.1	5.4	185	2.1	2.5	5.5	6.2	365	1.6	2.0	2.4	2.6
20-29 years	1,916	1.4	1.5	1.4	2.2	316	3.2	5.3	4.6	5.1	439	3.2	3.2	3.0	4.2	1,014	1.4	1.7	1.7	2.7
30-39 years	1,340	1.3	2.2	1.8	2.8	191	7.8	6.9	7.4	4.3	215	3.8	3.8	4.6	5.2	866	1.6	2.3	2.0	3.1
40-49 years	827	1.3	2.0	2.4	3.2	90	9.0	5.7	6.9	5.4	114	5.6	6.8	7.0	8.5	576	1.4	2.0	2.7	3.4
50-59 years	548	2.0	2.0	3.0	3.1	55	8.5	7.3	9.4	1.5	79	6.5	8.8	5.5	10.8	380	2.3	2.1	3.7	3.6
60-69 years	675	1.9	2.4	2.1	2.8	87	8.9	8.3	7.6	4.0	119	6.7	7.9	8.6	6.9	416	2.4	2.5	2.4	3.2
70-79 years	649	2.4	3.0	2.0	2.9	53	9.8	9.4	10.9	5.6	129	7.1	7.0	3.0	2.8	397	2.6	3.2	2.4	3.8
80 + years	591	3.5	3.0	1.6	1.4	51	12.6	12.0	4.9	3.0	134	4.8	5.8	3.3	2.0	324	4.3	3.8	1.7	2.1
Total, age adjusted	7,326	0.8	0.9	0.8	1.5	991	2.7	2.7	2.6	1.6	1,414	1.8	2.4	2.6	2.8	4,338	0.9	0.9	0.8	1.6
	Overweight and obese persons[1]																			
Both sexes																				
17-19 years	350	2.9	2.8	2.2	3.9	90	13.7	3.3	4.7	11.2	92	6.1	4.7	6.5	8.3	134	1.2	4.0	3.3	4.6
20-29 years	1,584	1.0	1.7	1.7	2.1	340	3.6	3.4	4.0	5.4	379	2.8	2.9	4.3	3.9	749	1.0	2.4	2.3	2.8
30-39 years	1,985	1.6	1.3	1.9	2.2	355	3.0	5.4	3.4	4.8	382	2.8	3.5	3.0	4.3	1,124	1.9	1.4	2.3	2.6
40-49 years	1,751	1.2	2.1	1.4	2.2	265	4.6	7.0	5.7	2.8	279	4.0	5.3	3.9	6.6	1,075	1.4	2.2	2.0	2.6
50-59 years	1,300	1.4	1.8	1.6	2.2	148	6.2	7.4	3.0	6.5	178	4.9	5.3	6.7	4.2	865	1.4	1.9	1.9	2.5
60-69 years	1,621	1.3	1.8	1.9	1.8	180	6.2	6.6	4.2	2.0	321	4.2	4.5	3.5	5.1	956	1.4	2.3	2.0	2.2
70-79 years	1,095	2.2	1.8	1.6	1.9	105	5.3	4.0	3.3	3.3	234	4.1	5.3	3.7	3.9	660	2.0	2.4	2.2	2.3
80 + years	641	3.8	2.3	1.5	2.2	62	8.7	7.4	4.2	0.5	159	3.2	4.4	3.1	2.0	344	5.4	3.0	2.3	3.2
Total, age adjusted	10,327	0.8	0.8	0.7	1.1	1,545	1.8	2.7	2.0	1.9	2,024	1.8	1.7	1.6	2.0	5,907	0.9	1.1	0.9	1.3

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-147—Distribution of males by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
	All males																			
Male																				
17-19 years	585	4.1	7.2	14.1	74.6	99	1.8	17.8	9.5	70.9	151	4.0	5.1	12.9	77.9	260	3.6	6.9	14.0	75.5
20-29 years	1,801	8.2	13.7	16.8	61.3	225	8.6	22.8	19.3	49.3	437	11.7	14.2	17.0	57.1	971	7.3	12.2	16.9	›› 63.6
30-39 years	1,620	10.4	15.7	17.6	56.2	190	18.9	25.6	23.7	31.8	276	13.5	18.7	17.8	49.9	1,047	9.2	14.3	17.3	››› 59.2
40-49 years	1,325	10.2	22.1	20.0	47.7	139	39.9	26.1	18.6	15.5	211	›› 16.4	33.9	16.1	› 33.6	878	››› 7.4	21.2	20.7	››› 50.7
50-59 years	953	12.4	25.2	26.4	36.0	82	26.2	43.3	22.7	7.8	131	24.0	28.1	30.2	17.7	667	10.4	23.2	26.6	››› 39.9
60-69 years	1,298	13.4	26.7	26.5	33.4	130	29.9	45.1	20.5	4.6	236	31.1	28.2	23.6	17.0	813	10.7	25.3	27.5	››› 36.4
70-79 years	993	18.3	32.1	22.3	27.3	81	45.0	28.2	15.7	11.2	184	31.0	48.4	15.7	4.9	632	›› 15.1	29.7	24.3	››› 30.9
80 + years	826	32.5	35.6	17.9	14.0	57	41.2	32.6	20.4	5.8	169	40.2	38.5	17.7	3.6	483	27.0	36.6	19.7	16.7
Total, age adjusted	9,401	11.8	20.7	20.3	47.2	1,003	25.5	29.7	19.8	24.9	1,795	19.0	25.7	19.3	››› 36.1	5,751	››› 9.7	›› 19.4	20.7	››› 50.1
	Healthy weight males[1]																			
Male																				
17-19 years	377	3.6	7.7	15.5	73.2	63	0.6	19.7	11.0	68.7	92	2.6	4.0	19.7	73.7	172	3.9	7.7	14.1	74.2
20-29 years	887	9.1	15.7	15.1	60.1	114	6.6	30.0	19.0	44.4	218	10.1	12.2	11.2	66.6	468	9.0	14.6	16.2	60.2
30-39 years	590	10.8	19.8	15.1	54.4	82	20.8	27.0	28.7	23.5	115	17.1	18.0	13.4	›› 51.6	357	7.8	19.4	13.8	››› 59.0
40-49 years	387	10.6	23.4	20.4	45.6	51	48.1	20.6	17.6	13.8	71	› 10.9	35.0	19.9	34.2	242	›› 6.7	21.9	20.5	››› 50.9
50-59 years	253	13.2	18.0	30.7	38.0	28	28.6	21.6	43.7	6.1	41	21.2	20.2	21.6	36.9	167	11.9	14.8	32.9	››› 40.5
60-69 years	347	17.3	27.9	18.7	36.1	52	39.7	36.5	20.1	3.7	63	21.8	39.8	15.9	22.4	204	› 15.8	26.4	17.7	››› 40.1
70-79 years	312	17.9	31.0	21.1	30.1	33	45.6	24.0	17.3	13.1	63	34.6	42.3	19.2	4.0	184	13.2	29.8	21.3	35.7
80 + years	290	27.4	38.1	19.2	15.4	25	42.7	32.3	13.3	11.7	56	39.0	35.4	21.5	4.0	174	19.3	41.3	20.4	19.0
Total, age adjusted	3,443	12.3	21.3	19.4	47.0	448	28.5	25.9	23.5	22.0	719	› 17.2	24.7	16.9	›› 41.2	1,968	››› 9.8	20.2	19.6	››› 50.4
	Overweight and obese males[1]																			
Male																				
17-19 years	156	5.0	6.4	8.9	79.8	28	3.4	16.6	2.4	77.6	50	7.1	7.3	7.6	78.0	63	0.1	3.4	11.0	85.5
20-29 years	751	6.6	10.4	19.1	63.9	99	6.5	10.2	22.3	61.0	188	11.0	13.6	25.7	49.8	408	5.1	9.8	17.1	68.0
30-39 years	878	10.1	14.3	18.7	56.9	94	15.2	27.2	18.2	39.4	145	11.1	20.3	13.4	55.2	588	9.9	12.6	19.5	58.0
40-49 years	833	9.5	22.3	19.2	49.0	79	32.6	27.9	21.7	17.8	131	16.5	36.0	13.8	33.7	562	› 7.7	21.2	19.5	››› 51.6
50-59 years	598	11.8	25.8	26.9	35.5	49	28.8	45.4	17.4	8.4	76	19.9	35.2	37.6	7.4	429	10.1	23.3	26.8	››› 39.8
60-69 years	813	10.7	25.7	30.4	33.2	62	26.0	48.5	19.5	6.1	151	28.6	23.8	29.3	18.2	527	8.3	24.3	31.6	››› 35.9
70-79 years	510	15.5	32.0	24.8	27.7	40	50.4	27.3	7.7	14.7	89	26.2	51.8	15.2	6.8	344	12.2	29.0	››› 28.1	30.7
80 + years	306	24.8	41.8	20.7	12.6	23	20.3	56.8	20.1	2.8	59	31.2	44.0	21.0	3.8	192	23.7	38.6	21.5	›› 16.2
Total, age adjusted	4,845	10.4	20.1	21.2	48.2	474	22.5	29.8	18.0	29.7	889	17.0	27.5	20.8	34.7	3,113	››› 8.7	18.4	21.6	››› 51.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-148—Standard errors for distribution of males by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
	All males																			
Male																				
17-19 years	585	1.2	1.5	2.4	2.4	99	0.8	6.4	3.4	6.7	151	1.8	2.0	4.1	6.4	260	1.5	2.1	3.9	3.1
20-29 years	1,801	0.8	1.2	1.6	2.1	225	3.1	5.8	3.9	4.8	437	2.1	2.9	3.6	4.6	971	0.9	1.5	2.1	2.6
30-39 years	1,620	1.4	1.6	1.8	2.5	190	6.6	5.9	6.7	6.7	276	3.0	2.7	4.1	5.2	1,047	1.6	1.9	2.1	3.0
40-49 years	1,325	1.1	1.9	1.7	2.2	139	6.1	5.2	5.9	5.1	211	4.2	6.5	3.9	6.4	878	1.1	1.9	1.8	2.2
50-59 years	953	1.7	2.1	1.6	2.1	82	8.2	12.5	7.6	3.4	131	6.2	6.9	8.8	7.3	667	1.9	2.4	2.2	2.4
60-69 years	1,298	1.4	1.5	1.6	2.1	130	7.8	7.6	6.4	2.8	236	5.2	5.3	4.7	4.8	813	1.5	2.0	1.7	2.5
70-79 years	993	1.7	1.8	1.5	2.5	81	8.6	7.3	7.2	4.6	184	5.2	5.2	3.1	2.9	632	1.7	2.1	1.9	2.9
80 + years	826	2.1	1.8	1.6	2.2	57	8.0	6.4	5.2	4.1	169	5.3	4.8	3.4	1.6	483	3.0	2.5	2.4	3.3
Total, age adjusted	9,401	0.7	0.8	0.7	1.2	1,003	2.6	3.2	2.8	1.7	1,795	1.8	2.2	1.8	2.4	5,751	0.6	0.9	0.8	1.3
	Healthy weight males[1]																			
Male																				
17-19 years	377	1.4	1.8	2.3	2.6	63	0.6	8.8	4.7	9.1	92	0.7	1.5	8.6	9.0	172	2.0	2.6	3.0	2.5
20-29 years	887	1.5	1.8	1.8	2.5	114	2.6	10.5	5.8	11.1	218	2.7	3.9	3.1	5.9	468	1.9	2.3	2.7	3.5
30-39 years	590	2.1	3.0	1.6	3.6	82	11.8	10.1	12.0	7.6	115	5.7	5.5	4.1	7.0	357	2.2	3.3	1.8	4.0
40-49 years	387	2.2	2.9	3.5	3.4	51	11.6	6.9	6.6	6.9	71	4.5	11.6	8.0	11.7	242	2.5	3.2	4.1	3.8
50-59 years	253	3.0	3.2	4.6	4.0	28	10.9	8.0	14.2	3.5	41	7.7	11.3	9.0	15.1	167	3.7	3.0	5.5	5.1
60-69 years	347	3.1	3.4	2.5	3.6	52	8.0	9.2	10.1	2.8	63	11.4	12.0	8.3	9.9	204	3.6	3.5	2.9	4.5
70-79 years	312	3.2	4.5	3.3	4.6	33	14.8	8.2	13.4	8.5	63	10.8	10.8	6.8	1.5	184	3.2	5.6	4.2	5.8
80 + years	290	3.6	3.3	3.0	3.6	25	14.9	11.0	7.3	8.0	56	8.4	10.3	7.1	2.7	174	3.6	4.1	3.4	4.9
Total, age adjusted	3,443	1.0	1.0	1.0	1.6	448	3.9	3.5	4.2	2.8	719	2.5	3.4	3.0	4.0	1,968	1.2	1.1	1.3	2.0
	Overweight and obese males[1]																			
Male																				
17-19 years	156	2.7	2.4	3.4	4.4	28	3.4	7.8	1.8	8.0	50	4.1	4.2	3.0	7.7	63	0.1	3.0	6.4	7.0
20-29 years	751	1.0	1.8	2.4	3.1	99	3.0	3.0	6.0	6.3	188	3.1	3.9	6.9	6.9	408	1.1	2.0	3.0	3.4
30-39 years	878	1.8	1.8	2.7	3.0	94	4.6	10.2	6.6	10.2	145	3.4	3.2	3.7	6.1	588	2.2	1.7	3.1	3.6
40-49 years	833	1.2	3.0	2.0	3.2	79	8.5	9.4	9.2	7.8	131	4.4	8.2	4.9	10.3	562	1.4	3.0	2.3	3.4
50-59 years	598	2.1	2.4	2.2	2.9	49	9.8	12.7	7.5	4.5	76	7.8	9.8	14.0	2.9	429	2.4	2.8	2.7	3.3
60-69 years	813	1.8	2.1	2.4	2.8	62	10.2	12.6	9.5	4.0	151	6.6	4.5	7.1	6.6	527	1.9	2.4	2.5	3.2
70-79 years	510	2.1	2.8	2.0	3.3	40	14.4	11.3	2.8	7.8	89	5.7	7.6	4.2	5.1	344	2.3	2.9	2.4	3.4
80 + years	306	3.0	3.2	2.8	2.6	23	11.5	15.0	8.2	2.6	59	6.0	6.2	6.7	3.7	192	4.0	4.1	4.0	3.3
Total, age adjusted	4,845	0.8	1.0	0.9	1.3	474	3.0	4.7	3.5	2.6	889	2.0	2.2	2.0	2.5	3,113	0.8	1.1	1.1	1.5

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-149—Distribution of females by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities				Sample size	Number of activities			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
All females																				
Female																				
17-19 years	640	13.3	12.7	19.6	54.4	152	31.8	12.2	17.6	38.4	150	15.9	11.5	18.4	54.1	279	›› 7.6	13.0	22.8	56.6
20-29 years	1,982	14.7	20.0	19.2	46.2	451	27.3	24.7	24.2	23.9	437	26.1	20.0	22.6	31.3	960	››› 8.5	18.9	16.9	››› 55.7
30-39 years	1,974	14.1	22.3	21.3	42.2	388	26.1	31.3	18.6	24.0	347	17.9	24.5	25.4	32.2	1,118	››› 11.4	› 21.0	21.1	››› 46.4
40-49 years	1,469	16.8	22.6	25.7	34.9	233	34.7	36.1	17.8	11.4	205	32.8	24.6	27.4	15.2	918	››› 13.1	21.6	25.6	››› 39.7
50-59 years	1,105	20.2	26.8	22.5	30.5	137	39.6	31.5	15.9	13.0	148	32.5	32.7	15.4	19.4	719	››› 16.7	25.7	23.1	›› 34.5
60-69 years	1,310	22.8	27.7	25.6	23.9	176	52.1	30.7	13.5	3.7	261	››› 25.4	30.0	21.6	› 22.9	727	››› 18.7	27.2	›› 28.0	››› 26.1
70-79 years	1,163	31.9	29.8	19.8	18.5	116	49.2	36.4	11.6	2.8	268	38.5	35.7	17.3	8.5	636	28.4	26.8	21.8	››› 23.0
80 + years	1,006	51.0	29.7	12.8	6.5	94	67.3	19.4	9.5	3.8	278	55.5	26.9	14.0	3.6	435	›› 43.5	› 33.6	13.4	9.4
Total, age adjusted	10,649	19.4	23.5	21.8	35.2	1,747	36.5	29.8	17.5	16.2	2,094	››› 28.4	25.7	22.0	›› 24.0	5,792	››› 15.2	› 22.6	22.1	››› 40.1
Healthy weight females[1]																				
Female																				
17-19 years	403	11.0	11.3	19.8	57.9	85	25.5	10.7	19.7	44.1	93	9.3	11.9	16.0	62.8	193	7.6	11.0	23.0	58.4
20-29 years	1,029	13.4	18.1	16.0	52.5	202	26.1	25.4	23.8	24.7	221	23.1	19.6	22.9	34.4	546	›› 8.5	17.0	13.3	››› 61.2
30-39 years	750	10.4	18.8	22.5	48.3	109	30.1	29.1	19.6	21.2	100	17.4	23.2	28.0	31.5	509	›› 7.5	17.4	22.0	››› 53.0
40-49 years	440	10.7	17.5	27.0	44.8	39	59.3	16.0	13.0	11.8	43	28.3	31.1	31.6	9.0	334	››› 8.2	16.9	26.2	››› 48.7
50-59 years	295	17.6	24.6	24.2	33.7	27	44.7	28.7	26.6	0.0	38	25.7	36.3	17.3	20.7	213	14.5	23.9	24.0	››› 37.6
60-69 years	328	17.0	23.6	27.6	31.8	35	49.0	26.1	19.5	5.4	56	› 16.4	34.5	31.3	17.9	212	16.2	22.2	27.8	››› 33.9
70-79 years	337	25.4	28.6	23.1	22.9	20	34.7	32.1	26.0	7.1	66	37.4	43.0	11.2	8.3	213	21.4	25.1	27.2	› 26.2
80 + years	301	42.8	33.6	16.1	7.4	26	62.4	28.0	9.6	0.0	78	47.5	30.4	18.0	4.1	150	35.8	36.5	16.4	›› 11.3
Total, age adjusted	3,883	15.3	20.7	22.6	41.4	543	40.8	24.6	20.1	14.6	695	››› 24.1	28.4	24.2	23.4	2,370	››› 12.0	19.7	22.4	››› 45.9
Overweight and obese females[1]																				
Female																				
17-19 years	194	18.0	18.0	19.6	44.5	62	41.6	14.0	15.6	28.8	42	30.3	16.3	29.7	23.7	71	4.1	20.9	19.6	55.4
20-29 years	833	17.3	22.9	24.0	35.9	241	28.4	23.5	24.8	23.4	191	27.6	16.5	24.2	31.7	341	››› 9.2	24.2	23.7	› 42.9
30-39 years	1,107	18.2	27.2	20.5	34.0	261	23.7	33.5	17.8	25.0	237	18.5	26.0	21.2	34.3	536	16.4	26.4	21.6	35.5
40-49 years	918	22.2	27.8	22.6	27.4	186	29.7	43.0	19.8	7.4	148	35.3	26.9	17.9	19.8	513	18.2	26.6	23.4	››› 31.8
50-59 years	702	21.4	28.1	22.0	28.5	99	38.7	33.2	8.0	20.1	102	36.6	29.9	15.8	17.8	436	› 17.7	26.7	››› 23.3	32.3
60-69 years	808	25.4	29.6	26.0	19.0	118	54.9	26.3	14.4	4.4	170	›› 30.0	33.3	14.8	21.9	429	››› 20.3	29.7	› 29.8	››› 20.2
70-79 years	585	30.7	32.2	19.3	17.8	65	56.6	29.0	10.8	3.6	145	› 34.0	39.8	16.4	9.8	316	››› 27.1	29.2	21.0	››› 22.8
80 + years	335	45.4	33.5	14.0	7.1	39	62.6	25.7	11.7	0.0	100	48.4	30.5	17.4	3.7	152	37.9	39.0	11.7	› 11.4
Total, age adjusted	5,482	22.2	27.1	21.9	28.9	1,071	36.2	31.1	16.7	15.9	1,135	30.4	26.5	19.6	23.5	2,794	››› 17.2	26.9	22.8	››› 33.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-150—Standard errors for distribution of females by number of different physical activities in the past month: Ages 17 and over

	Total Persons					Currently Receiving Food Stamps					Income-eligible Nonparticipants					Higher-income Nonparticipants				
	Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors				Sample size	Standard Errors			
		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more		Zero	One	Two	Three or more
	All females																			
Female																				
17-19 years	640	2.1	1.8	2.2	3.3	152	7.4	2.3	4.2	6.5	150	4.5	3.2	5.1	5.6	279	2.2	2.7	3.2	3.7
20-29 years	1,982	1.3	1.6	1.6	1.9	451	3.4	3.7	4.5	3.7	437	3.6	3.8	3.4	4.2	960	1.3	1.9	1.6	2.1
30-39 years	1,974	1.4	1.7	1.8	2.4	388	3.2	3.5	3.4	3.9	347	2.3	3.8	4.8	4.9	1,118	1.5	1.9	2.1	2.8
40-49 years	1,469	1.7	1.5	1.5	2.4	233	5.6	7.2	4.4	1.9	205	5.6	5.4	7.3	4.5	918	1.6	1.8	1.9	2.8
50-59 years	1,105	1.7	1.7	1.9	2.7	137	5.6	5.5	4.3	6.0	148	5.8	5.9	3.4	6.1	719	1.7	1.8	2.3	3.2
60-69 years	1,310	1.2	1.9	1.9	2.1	176	6.1	6.1	4.1	1.8	261	3.4	4.7	3.8	5.7	727	1.7	2.3	2.2	2.4
70-79 years	1,163	2.1	1.1	1.6	1.4	116	9.6	11.0	3.8	1.9	268	3.9	3.6	2.3	2.5	636	2.3	1.8	2.4	1.9
80 + years	1,006	3.2	2.4	1.2	0.8	94	4.7	4.0	2.8	2.2	278	2.2	2.9	2.1	1.1	435	5.1	3.2	2.2	1.4
Total, age adjusted	10,649	0.9	0.8	0.7	1.4	1,747	1.8	2.4	1.9	1.3	2,094	1.6	1.6	2.2	2.1	5,792	0.9	1.0	0.8	1.5
	Healthy weight females[1]																			
Female																				
17-19 years	403	2.5	1.9	2.9	3.6	85	7.3	3.2	6.2	6.9	93	3.8	4.0	6.3	7.5	193	2.6	2.7	4.3	5.0
20-29 years	1,029	1.9	2.2	1.8	2.8	202	4.9	4.6	6.0	4.2	221	5.6	5.3	4.5	6.7	546	1.8	2.4	1.9	3.2
30-39 years	750	1.4	2.2	2.9	3.6	109	6.4	7.3	5.8	6.4	100	5.0	5.5	8.2	9.5	509	1.6	2.3	3.3	3.9
40-49 years	440	2.0	2.5	2.9	4.0	39	11.1	7.3	8.7	8.2	43	11.5	9.0	11.7	7.5	334	1.8	2.7	3.0	4.0
50-59 years	295	2.6	2.9	3.5	4.4	27	13.3	12.2	13.9	0.0	38	9.2	12.5	6.2	12.3	213	2.7	2.9	4.1	4.9
60-69 years	328	2.5	3.2	3.3	4.2	35	12.6	11.0	10.7	4.7	56	6.2	8.7	11.3	8.2	212	3.1	3.6	3.6	4.8
70-79 years	337	3.3	3.4	2.1	3.0	20	15.1	18.1	16.9	7.0	66	8.8	8.7	3.6	3.8	213	3.7	3.5	2.7	4.0
80 + years	301	4.7	4.4	1.9	1.8	26	13.0	13.4	5.7	0.0	78	6.0	5.5	3.9	2.5	150	6.2	6.4	2.6	3.1
Total, age adjusted	3,883	1.0	1.1	1.1	2.0	543	3.6	3.0	3.5	2.0	695	2.8	3.0	3.8	3.4	2,370	1.0	1.2	1.3	2.1
	Overweight and obese females[1]																			
Female																				
17-19 years	194	4.8	4.7	3.5	5.5	62	15.6	4.2	5.8	12.3	42	14.9	9.5	12.6	8.4	71	2.5	7.3	4.1	7.6
20-29 years	833	1.9	2.7	2.3	2.8	241	4.1	5.1	4.8	5.6	191	5.4	4.1	6.0	6.8	341	2.2	4.2	3.2	4.3
30-39 years	1,107	2.4	2.0	1.9	2.6	261	3.2	4.4	3.9	5.3	237	3.0	5.3	4.6	5.5	536	2.9	2.6	2.7	3.0
40-49 years	918	2.2	2.3	2.1	2.5	186	5.8	9.1	5.8	2.2	148	6.8	5.8	5.3	5.5	513	2.5	2.6	2.9	3.4
50-59 years	702	2.0	2.2	2.2	2.8	99	6.5	6.4	3.0	8.6	102	6.2	7.9	5.4	6.4	436	2.0	2.3	2.5	3.2
60-69 years	808	1.6	2.4	2.7	2.0	118	6.4	6.4	4.5	2.5	170	5.0	6.8	3.6	7.5	429	2.1	3.0	3.1	2.3
70-79 years	585	3.0	2.0	2.5	2.0	65	7.2	7.8	4.9	3.2	145	5.0	6.3	4.6	4.9	316	3.2	3.0	4.1	2.7
80 + years	335	5.1	2.8	2.1	2.4	39	9.2	8.2	5.2	0.0	100	4.4	5.4	3.6	2.2	152	7.8	4.4	4.0	3.9
Total, age adjusted	5,482	1.3	1.0	0.9	1.4	1,071	2.1	2.8	1.9	2.0	1,135	2.5	2.0	2.1	2.8	2,794	1.4	1.5	1.2	1.6

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-151—Percent of persons who walked a mile or more without stopping in past month: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All persons											
Both sexes												
17-19 years	1,225	58.4	2.4	251	53.1	5.7	301	61.3	4.6	539	57.5	2.6
20-29 years	3,783	54.3	1.4	676	50.1	3.4	874	54.4	3.0	1,931	55.6	1.7
30-39 years	3,594	53.7	1.5	578	49.1	4.4	623	55.8	4.1	2,165	54.2	1.7
40-49 years	2,794	52.2	1.4	372	40.7	5.0	416	43.4	4.7	1,796	› 53.3	1.8
50-59 years	2,058	50.6	1.6	219	40.5	4.5	279	41.9	5.2	1,386	› 52.6	1.8
60-69 years	2,608	46.3	1.7	306	27.7	4.1	497	› 42.6	4.7	1,540	››› 47.9	2.0
70-79 years	2,156	38.8	1.7	197	32.0	5.5	452	29.2	2.2	1,268	› 42.2	2.0
80 + years	1,832	18.6	1.1	151	17.4	4.4	447	15.5	1.9	918	21.5	1.2
Total, age adjusted	20,050	49.9	0.9	2,750	41.8	1.5	3,889	› 46.2	1.6	11,543	››› 51.2	1.0
	Healthy weight persons[1]											
Both sexes												
17-19 years	780	58.1	2.6	148	56.0	6.0	185	62.9	5.7	365	55.7	3.6
20-29 years	1,916	53.7	2.2	316	50.6	4.5	439	56.3	4.6	1,014	53.7	2.8
30-39 years	1,340	54.8	2.6	191	53.6	7.5	215	58.1	6.1	866	55.2	3.2
40-49 years	827	54.5	2.5	90	38.9	8.6	114	43.8	8.7	576	55.7	2.7
50-59 years	548	52.6	3.5	55	36.9 *	9.4	79	47.6 *	9.6	380	54.7	4.0
60-69 years	675	49.1	2.6	87	29.2	7.0	119	46.2	10.7	416	› 49.7	3.1
70-79 years	649	44.8	2.7	53	48.8 *	10.5	129	31.6	5.6	397	48.0	3.3
80 + years	591	23.8	1.5	51	18.7 *	6.0	134	19.6	2.8	324	28.4	2.2
Total, age adjusted	7,326	51.7	1.4	991	43.5	3.0	1,414	48.8	3.3	4,338	›› 52.8	1.5
	Overweight and obese persons[1]											
Both sexes												
17-19 years	350	54.5	5.3	90	48.0 *	12.6	92	47.8 *	10.1	134	61.7	6.9
20-29 years	1,584	56.3	2.1	340	51.2	5.2	379	55.2	5.0	749	59.2	3.1
30-39 years	1,985	53.1	1.8	355	45.8	5.2	382	57.3	5.1	1,124	53.0	1.9
40-49 years	1,751	50.6	1.9	265	39.0	6.2	279	40.6	4.7	1,075	52.4	2.9
50-59 years	1,300	49.6	1.8	148	37.4	6.3	178	39.5	6.5	865	› 51.4	2.0
60-69 years	1,621	46.0	1.8	180	29.8	4.2	321	38.0	5.4	956	››› 47.6	2.1
70-79 years	1,095	38.1	2.4	105	21.8 *	4.1	234	28.7	4.5	660	››› 42.6	2.8
80 + years	641	19.3	1.6	62	17.7 *	6.4	159	18.8	3.7	344	20.0	1.6
Total, age adjusted	10,327	49.4	1.1	1,545	39.6	2.0	2,024	› 44.6	1.8	5,907	››› 51.5	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-152—Percent of males who walked a mile or more without stopping in past month: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All males											
Male												
17-19 years	585	60.3	2.7	99	64.1	6.9	151	57.8	8.0	260	59.7	3.4
20-29 years	1,801	54.4	2.0	225	51.7	7.3	437	60.7	4.1	971	53.8	2.4
30-39 years	1,620	52.6	2.2	190	51.6	9.6	276	58.6	6.3	1,047	51.9	2.2
40-49 years	1,325	51.1	1.8	139	44.6	7.3	211	41.7	5.6	878	51.5	2.2
50-59 years	953	50.2	2.0	82	39.1 *	6.8	131	41.3	9.5	667	52.2	2.4
60-69 years	1,298	48.2	2.0	130	34.4	7.3	236	42.8	5.4	813	48.8	2.5
70-79 years	993	42.4	2.4	81	34.2 *	7.4	184	26.5	4.0	632	45.8	2.6
80 + years	826	23.4	1.8	57	25.0 *	7.2	169	17.2	3.5	483	26.6	2.2
Total, age adjusted	9,401	50.2	1.0	1,003	44.9	3.0	1,795	47.1	2.2	5,751	› 50.8	1.0
	Healthy weight males[1]											
Male												
17-19 years	377	62.1	3.2	63	61.2 *	9.4	92	56.5 *	8.4	172	60.6	4.3
20-29 years	887	50.9	2.7	114	55.3	8.4	218	60.3	6.1	468	47.7	3.2
30-39 years	590	51.8	3.8	82	61.0	12.4	115	68.0	6.6	357	49.3	4.3
40-49 years	387	52.6	3.9	51	45.5 *	11.0	71	46.9 *	12.0	242	54.3	4.4
50-59 years	253	52.2	4.4	28	41.5 *	13.2	41	50.5 *	13.5	167	54.1	5.9
60-69 years	347	46.6	3.5	52	30.3 *	11.1	63	51.8 *	12.2	204	45.9	4.3
70-79 years	312	46.6	4.7	33	37.2 *	13.3	63	29.4 *	5.1	184	50.5	6.2
80 + years	290	30.4	3.5	25	27.0 *	10.9	56	23.6 *	7.5	174	35.9	4.6
Total, age adjusted	3,443	50.6	1.8	448	47.7	4.1	719	52.6	4.1	1,968	50.6	2.0
	Overweight and obese males[1]											
Male												
17-19 years	156	51.2	8.1	28	75.3 *	8.6	50	46.2 *	15.7	63	57.6 *	10.2
20-29 years	751	61.2	2.6	99	51.0	12.4	188	67.5	4.9	408	62.3	3.4
30-39 years	878	53.0	2.8	94	43.7	10.4	145	55.8	7.0	588	52.4	3.0
40-49 years	833	51.5	2.6	79	42.4 *	10.2	131	38.9	7.3	562	52.0	3.3
50-59 years	598	49.6	2.4	49	27.7 *	9.5	76	40.5 *	13.7	429	› 51.5	3.0
60-69 years	813	50.7	2.6	62	38.5 *	11.5	151	43.0	6.5	527	51.0	3.2
70-79 years	510	43.4	3.0	40	30.0 *	10.9	89	27.3 *	5.9	344	47.3	3.0
80 + years	306	21.2	2.4	23	31.9 *	14.2	59	14.2 *	5.1	192	22.9	2.5
Total, age adjusted	4,845	51.2	1.2	474	42.1	3.6	889	46.3	2.8	3,113	›› 52.4	1.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-153—Percent of females who walked a mile or more without stopping in past month: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	640	56.6	3.9	152	48.7	7.6	150	64.5	5.8	279	55.1	5.2
20-29 years	1,982	54.2	1.9	451	49.4	3.1	437	48.3	4.6	960	› 57.4	2.3
30-39 years	1,974	54.7	2.0	388	47.6	3.8	347	53.6	4.2	1,118	56.5	2.4
40-49 years	1,469	53.1	1.8	233	38.3	6.1	205	45.0	6.4	918	› 55.0	2.2
50-59 years	1,105	50.9	2.0	137	41.4	5.6	148	42.5	6.0	719	› 53.0	2.2
60-69 years	1,310	44.7	2.0	176	25.0	4.5	261	› 42.5	6.3	727	››› 47.0	2.4
70-79 years	1,163	36.1	1.6	116	30.9	7.2	268	30.4	2.9	636	39.0	2.2
80 + years	1,006	16.0	1.2	94	15.0 *	5.3	278	14.8	2.3	435	17.9	1.4
Total, age adjusted	10,649	49.7	1.2	1,747	40.3	1.5	2,094	› 45.4	2.2	5,792	››› 51.8	1.3
	Healthy weight females[1]											
Female												
17-19 years	403	54.2	4.6	85	53.5	8.8	93	67.4	7.2	193	50.5	7.1
20-29 years	1,029	56.1	2.8	202	47.9	4.5	221	52.2	7.1	546	58.8	3.6
30-39 years	750	57.0	3.0	109	46.2	6.6	100	48.4	8.7	509	59.5	3.6
40-49 years	440	55.8	2.9	39	30.8 *	10.7	43	40.1 *	12.4	334	› 56.7	3.1
50-59 years	295	52.9	3.8	27	33.4 *	13.8	38	44.0 *	14.5	213	55.2	4.1
60-69 years	328	50.8	3.6	35	28.6 *	9.4	56	41.7 *	12.0	212	› 52.4	4.2
70-79 years	337	43.7	3.1	20	60.4 *	16.8	66	32.6 *	7.8	213	46.3	3.7
80 + years	301	20.2	2.3	26	14.4 *	7.5	78	18.1 *	4.3	150	23.6	2.6
Total, age adjusted	3,883	52.6	1.5	543	40.0	3.6	695	44.6	4.0	2,370	››› 54.4	1.8
	Overweight and obese females[1]											
Female												
17-19 years	194	57.7	5.1	62	41.9 *	14.0	42	50.5 *	13.7	71	66.0	6.2
20-29 years	833	50.5	3.0	241	51.3	5.3	191	42.1	6.1	341	54.4	4.7
30-39 years	1,107	53.1	2.5	261	46.6	4.6	237	58.3	5.3	536	53.8	3.2
40-49 years	918	49.5	2.5	186	37.6	7.8	148	42.3	6.4	513	53.0	3.9
50-59 years	702	49.6	2.7	99	42.9	7.6	102	38.7	6.3	436	51.2	2.9
60-69 years	808	41.6	2.2	118	26.7	4.4	170	34.3	7.2	429	››› 44.0	2.5
70-79 years	585	33.9	2.5	65	17.8 *	4.7	145	29.4	5.1	316	››› 38.0	3.3
80 + years	335	18.3	2.0	39	14.3 *	7.3	100	20.4 *	4.5	152	17.9	2.1
Total, age adjusted	5,482	47.5	1.4	1,071	39.2	2.2	1,135	42.7	2.5	2,794	››› 50.3	1.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-154—Percent of persons reporting physical activity at least three times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
All persons												
Both sexes												
17-19 years	1,225	71.4	2.3	251	55.8	4.4	301	›› 74.4	4.2	539	››› 72.0	2.7
20-29 years	3,783	60.5	1.6	676	47.4	3.8	874	56.1	2.9	1,931	››› 63.8	2.2
30-39 years	3,594	58.9	1.6	578	46.6	4.2	623	55.9	4.1	2,165	›› 60.6	2.0
40-49 years	2,794	54.7	1.9	372	26.2	3.4	416	›› 46.3	5.7	1,796	››› 58.4	2.2
50-59 years	2,058	54.4	1.6	219	38.0	4.6	279	48.6	5.5	1,386	››› 56.6	1.6
60-69 years	2,608	58.2	1.7	306	24.1	3.7	497	››› 49.8	3.6	1,540	››› 62.4	2.0
70-79 years	2,156	51.4	1.9	197	23.1	4.9	452	›› 39.4	3.0	1,268	››› 56.6	2.1
80 + years	1,832	37.5	1.9	151	27.4	4.0	447	32.4	1.9	918	›› 43.6	2.9
Total, age adjusted	20,050	56.8	1.2	2,750	37.0	1.6	3,889	››› 51.1	2.1	11,543	››› 59.9	1.3
Healthy weight persons[1]												
Both sexes												
17-19 years	780	73.6	2.5	148	60.3	5.5	185	73.4	5.4	365	› 75.2	3.2
20-29 years	1,916	61.5	2.5	316	46.8	5.4	439	58.4	4.5	1,014	›› 64.2	3.1
30-39 years	1,340	60.6	2.2	191	47.4	7.6	215	59.9	5.0	866	62.1	2.7
40-49 years	827	61.5	3.0	90	20.6 *	6.6	114	›› 54.8	8.0	576	››› 64.8	3.2
50-59 years	548	59.1	2.6	55	43.9 *	8.7	79	59.5 *	8.8	380	60.6	3.2
60-69 years	675	63.6	2.7	87	25.6 *	7.9	119	›› 63.9	8.3	416	››› 65.4	3.5
70-79 years	649	55.3	2.4	53	35.4 *	11.8	129	38.0	4.7	397	› 61.6	3.1
80 + years	591	44.3	2.6	51	31.8 *	8.8	134	39.2	4.6	324	49.4	3.2
Total, age adjusted	7,326	60.6	1.5	991	38.4	2.6	1,414	››› 57.1	2.8	4,338	››› 63.3	1.6
Overweight and obese persons[1]												
Both sexes												
17-19 years	350	62.3	4.6	90	44.3 *	9.2	92	› 73.3 *	7.4	134	62.7	5.8
20-29 years	1,584	59.3	2.4	340	47.6	6.6	379	56.2	4.7	749	› 62.7	3.0
30-39 years	1,985	55.6	2.0	355	44.5	4.5	382	50.9	5.5	1,124	› 57.4	2.4
40-49 years	1,751	50.1	2.1	265	24.6	4.4	279	›› 47.9	6.4	1,075	››› 53.4	2.6
50-59 years	1,300	51.4	2.0	148	31.2	6.6	178	44.7	6.6	865	››› 53.6	2.2
60-69 years	1,621	56.4	2.0	180	27.4	5.9	321	› 43.4	4.8	956	››› 60.3	2.4
70-79 years	1,095	52.2	2.7	105	18.4 *	5.2	234	›› 38.7	5.3	660	››› 57.5	2.8
80 + years	641	39.4	3.2	62	31.1 *	8.0	159	35.0	3.9	344	44.4	5.1
Total, age adjusted	10,327	54.0	1.4	1,545	34.8	2.6	2,024	››› 49.2	2.6	5,907	››› 57.0	1.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-155—Percent of males reporting physical activity at least three times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
All males												
Male												
17-19 years	585	84.0	2.6	99	87.4 *	3.4	151	82.5	6.3	260	84.6	2.9
20-29 years	1,801	67.0	1.9	225	61.4	5.7	437	67.5	3.5	971	67.3	2.4
30-39 years	1,620	64.6	2.2	190	60.7	8.7	276	60.2	4.9	1,047	65.5	2.4
40-49 years	1,325	58.2	2.2	139	31.0	6.4	211	›› 58.7	6.6	878	››› 60.6	2.6
50-59 years	953	59.2	1.8	82	39.0 *	7.3	131	53.1	9.0	667	›› 61.7	2.0
60-69 years	1,298	63.0	1.8	130	31.2	7.8	236	47.5	5.7	813	››› 66.7	2.2
70-79 years	993	57.5	2.6	81	28.8 *	8.8	184	37.7	5.0	632	››› 62.0	2.8
80 + years	826	47.4	2.6	57	36.6 *	7.4	169	35.9	4.6	483	› 53.9	3.7
Total, age adjusted	9,401	62.6	1.1	1,003	46.8	2.8	1,795	››› 57.4	2.7	5,751	››› 64.7	1.2
Healthy weight males[1]												
Male												
17-19 years	377	85.5	2.9	63	87.0 *	4.4	92	78.6 *	8.2	172	87.4	3.4
20-29 years	887	66.4	3.1	114	53.8	11.2	218	74.0	5.5	468	65.7	4.2
30-39 years	590	61.6	2.8	82	60.2 *	12.3	115	61.6	7.3	357	62.2	3.1
40-49 years	387	60.0	3.5	51	24.2 *	8.8	71	››› 70.0 *	8.0	242	››› 63.2	4.0
50-59 years	253	65.1	3.3	28	52.4 *	13.9	41	60.0 *	13.1	167	68.5	4.1
60-69 years	347	64.3	3.8	52	37.6 *	11.1	63	66.5 *	11.6	204	› 65.2	4.8
70-79 years	312	57.3	4.9	33	40.1 *	15.8	63	30.0 *	7.2	184	64.2	6.0
80 + years	290	54.8	4.9	25	46.7 *	13.3	56	41.0 *	7.8	174	61.7	5.5
Total, age adjusted	3,443	63.6	1.5	448	47.8	4.0	719	›› 63.3	3.1	1,968	››› 65.8	1.7
Overweight and obese males[1]												
Male												
17-19 years	156	77.7	5.7	28	88.8 *	5.2	50	83.5 *	8.2	63	76.6 *	7.2
20-29 years	751	68.2	3.0	99	71.7 *	7.5	188	63.0	5.5	408	68.6	3.5
30-39 years	878	65.2	2.7	94	59.8 *	10.4	145	54.4	7.4	588	66.1	3.2
40-49 years	833	56.4	2.6	79	32.4 *	8.9	131	53.8	9.3	562	›› 58.8	3.2
50-59 years	598	55.8	2.4	49	22.8 *	6.9	76	52.3 *	12.5	429	››› 57.9	2.7
60-69 years	813	63.6	2.5	62	27.4 *	11.3	151	47.1	8.6	527	››› 67.1	2.7
70-79 years	510	59.9	3.3	40	17.4 *	7.1	89	› 41.8 *	7.4	344	››› 64.0	3.5
80 + years	306	49.0	3.3	23	37.6 *	11.3	59	39.5 *	9.0	192	53.0	4.1
Total, age adjusted	4,845	62.0	1.4	474	45.2	3.6	889	› 54.8	3.9	3,113	››› 63.8	1.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-156—Percent of females reporting physical activity at least three times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	640	58.6	3.2	152	43.1	5.3	150	›› 67.2	5.5	279	› 58.0	3.8
20-29 years	1,982	54.0	2.1	451	40.4	4.2	437	45.0	4.2	960	››› 60.1	2.8
30-39 years	1,974	53.4	2.0	388	38.2	3.9	347	› 52.6	5.0	1,118	››› 55.6	2.6
40-49 years	1,469	51.3	2.3	233	23.2	3.2	205	34.9	6.7	918	››› 56.2	2.6
50-59 years	1,105	49.9	2.2	137	37.3	6.7	148	44.2	6.3	719	› 51.5	2.6
60-69 years	1,310	54.2	2.1	176	21.2	3.9	261	››› 51.5	5.1	727	››› 58.4	2.5
70-79 years	1,163	47.0	2.5	116	20.4	5.4	268	››› 40.2	3.3	636	››› 51.8	3.3
80 + years	1,006	32.2	2.0	94	24.4	4.6	278	31.0	2.2	435	› 36.4	3.0
Total, age adjusted	10,649	51.5	1.5	1,747	32.0	1.7	2,094	››› 45.3	2.5	5,792	››› 55.2	1.7
	Healthy weight females[1]											
Female												
17-19 years	403	61.8	3.4	85	47.1	7.2	93	› 69.7	6.7	193	62.0	4.7
20-29 years	1,029	57.2	2.7	202	42.7	4.9	221	42.9	6.5	546	››› 63.0	3.2
30-39 years	750	59.8	3.1	109	34.9	6.5	100	› 58.2	7.4	509	››› 62.1	3.7
40-49 years	440	62.5	4.0	39	16.2 *	8.8	43	36.5 *	14.6	334	››› 65.9	3.8
50-59 years	295	54.9	3.9	27	37.4 *	14.6	38	58.9 *	10.7	213	55.6	4.3
60-69 years	328	63.0	3.4	35	19.9 *	10.1	56	›› 61.7 *	8.7	212	››› 65.5	4.3
70-79 years	337	54.1	3.6	20	30.7 *	16.4	66	41.4 *	6.1	213	59.8	4.5
80 + years	301	38.7	2.6	26	24.1 *	9.0	78	38.6 *	6.1	150	41.5	4.0
Total, age adjusted	3,883	58.2	1.9	543	31.3	3.3	695	››› 50.1	4.3	2,370	››› 61.3	2.1
	Overweight and obese females[1]											
Female												
17-19 years	194	47.6	5.2	62	34.4 *	9.9	42	56.7 *	14.6	71	48.4 *	7.6
20-29 years	833	48.7	3.3	241	38.7	6.7	191	48.9	5.4	341	› 53.7	4.5
30-39 years	1,107	44.2	2.7	261	38.1	5.5	237	48.6	6.3	536	44.8	3.3
40-49 years	918	42.6	2.9	186	21.1	4.1	148	›› 42.1	6.9	513	››› 46.2	3.8
50-59 years	702	46.7	3.1	99	35.9 *	8.6	102	38.6	6.9	436	48.4	3.6
60-69 years	808	49.7	2.4	118	27.3	6.3	170	40.6	7.2	429	››› 53.0	3.1
70-79 years	585	46.0	3.4	65	18.9 *	6.4	145	› 37.3	6.0	316	››› 51.0	4.2
80 + years	335	34.3	3.9	39	29.6 *	9.4	100	33.5	4.4	152	38.3	7.2
Total, age adjusted	5,482	45.5	1.7	1,071	31.3	2.8	1,135	››› 44.0	2.7	2,794	››› 48.4	2.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-157—Percent of persons reporting physical activity at least five times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All persons											
Both sexes												
17-19 years	1,225	56.5	2.9	251	42.6	5.2	301	› 59.2	5.2	539	› 55.3	3.4
20-29 years	3,783	44.8	1.6	676	36.0	3.4	874	41.3	2.6	1,931	›› 47.4	2.3
30-39 years	3,594	44.2	1.6	578	33.7	4.6	623	42.0	4.4	2,165	› 45.5	1.8
40-49 years	2,794	40.1	1.8	372	19.3	3.4	416	›› 35.6	4.6	1,796	››› 42.6	2.2
50-59 years	2,058	41.4	1.8	219	28.3	4.6	279	› 42.3	5.5	1,386	›› 42.8	2.0
60-69 years	2,608	46.5	1.8	306	21.0	3.4	497	››› 42.0	4.3	1,540	››› 49.2	2.3
70-79 years	2,156	42.6	2.0	197	21.0	4.7	452	› 32.7	2.4	1,268	››› 46.5	2.3
80 + years	1,832	32.0	1.7	151	24.3	4.3	447	27.0	1.8	918	›› 37.7	2.6
Total, age adjusted	20,050	43.4	1.1	2,750	28.3	1.7	3,889	››› 40.2	1.9	11,543	››› 45.5	1.3
	Healthy weight persons[1]											
Both sexes												
17-19 years	780	58.0	3.1	148	43.4	5.8	185	54.3	7.1	365	› 59.2	3.6
20-29 years	1,916	46.2	2.3	316	37.3	4.9	439	43.7	4.4	1,014	48.3	3.1
30-39 years	1,340	47.5	2.4	191	38.6	7.6	215	45.8	6.1	866	48.4	2.7
40-49 years	827	46.6	2.8	90	12.9 *	5.0	114	››› 49.0	8.6	576	››› 48.8	3.0
50-59 years	548	44.9	2.7	55	21.7 *	7.5	79	›› 52.3 *	8.7	380	›› 45.9	3.2
60-69 years	675	53.0	2.7	87	19.5 *	5.4	119	››› 58.3	9.1	416	››› 53.2	3.8
70-79 years	649	47.9	2.5	53	33.2 *	11.8	129	29.3	4.5	397	54.0	3.1
80 + years	591	38.6	2.8	51	28.5 *	8.6	134	32.3	5.3	324	43.2	3.2
Total, age adjusted	7,326	47.5	1.5	991	28.3	2.3	1,414	››› 46.8	3.0	4,338	››› 49.4	1.6
	Overweight and obese persons[1]											
Both sexes												
17-19 years	350	51.7	4.4	90	37.7 *	8.7	92	› 67.3 *	8.1	134	48.0	5.7
20-29 years	1,584	42.1	2.5	340	32.8	5.4	379	39.9	4.8	749	44.7	3.2
30-39 years	1,985	39.4	2.0	355	28.6	5.1	382	38.4	5.5	1,124	› 40.7	2.4
40-49 years	1,751	35.6	2.0	265	19.9	4.1	279	› 33.3	5.5	1,075	››› 37.7	2.7
50-59 years	1,300	37.8	2.0	148	25.2	6.5	178	38.5	7.1	865	› 39.0	2.3
60-69 years	1,621	44.2	2.2	180	24.6	5.8	321	33.5	5.4	956	››› 47.0	2.6
70-79 years	1,095	41.3	2.9	105	15.3 *	4.6	234	› 31.3	4.6	660	››› 44.8	3.2
80 + years	641	32.7	2.8	62	25.0 *	7.6	159	27.7	3.7	344	37.9	4.3
Total, age adjusted	10,327	39.9	1.2	1,545	26.0	2.8	2,024	››› 37.8	2.2	5,907	››› 41.8	1.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-158—Percent of males reporting physical activity at least five times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All males											
Male												
17-19 years	585	70.8	2.9	99	75.0 *	5.7	151	68.2	8.4	260	70.3	3.6
20-29 years	1,801	52.2	2.2	225	45.9	6.3	437	56.6	4.4	971	52.1	2.8
30-39 years	1,620	49.4	2.2	190	46.4	8.6	276	48.1	5.6	1,047	50.1	2.3
40-49 years	1,325	44.2	2.3	139	27.9	6.3	211	41.6	6.2	878	› 45.7	2.7
50-59 years	953	45.7	2.0	82	28.9 *	7.2	131	47.5	9.3	667	› 47.0	2.6
60-69 years	1,298	50.7	2.0	130	29.1	7.4	236	37.6	5.8	813	›› 53.6	2.5
70-79 years	993	49.1	2.8	81	28.0 *	8.8	184	30.9	4.2	632	›› 52.5	3.2
80 + years	826	40.4	2.0	57	31.6 *	7.2	169	31.0	4.4	483	45.2	2.8
Total, age adjusted	9,401	49.2	1.1	1,003	37.9	3.0	1,795	›› 46.2	2.4	5,751	›››50.6	1.4
	Healthy weight males[1]											
Male												
17-19 years	377	74.3	3.3	63	74.5 *	6.9	92	61.2 *	10.4	172	77.3	4.1
20-29 years	887	53.1	2.9	114	47.7	10.8	218	64.9	6.5	468	50.9	4.0
30-39 years	590	48.6	3.3	82	52.8	12.4	115	54.8	7.2	357	47.4	3.4
40-49 years	387	49.1	3.6	51	20.8 *	8.4	71	›› 59.3 *	11.5	242	›› 51.2	4.2
50-59 years	253	48.3	3.3	28	35.0 *	13.9	41	52.3 *	14.0	167	49.7	4.4
60-69 years	347	54.8	4.0	52	32.5 *	11.1	63	› 64.5 *	11.6	204	53.6	5.0
70-79 years	312	52.4	5.0	33	39.8 *	15.8	63	21.6 *	6.8	184	59.6	6.0
80 + years	290	47.7	4.0	25	37.2 *	11.6	56	36.8 *	8.0	174	52.8	4.7
Total, age adjusted	3,443	51.8	1.6	448	40.4	4.3	719	› 55.0	3.4	1,968	› 52.6	1.8
	Overweight and obese males[1]											
Male												
17-19 years	156	64.1	6.8	28	77.2 *	8.0	50	74.9 *	11.0	63	57.8 *	8.7
20-29 years	751	50.9	3.6	99	37.1 *	9.3	188	49.4	8.0	408	52.6	4.0
30-39 years	878	48.3	2.8	94	37.0 *	10.0	145	37.0	7.4	588	50.3	3.2
40-49 years	833	40.3	2.7	79	28.7 *	8.7	131	32.8	7.4	562	42.0	3.3
50-59 years	598	42.5	2.8	49	14.2 *	4.5	76	› 48.1 *	12.8	429	›››43.3	3.3
60-69 years	813	49.5	2.7	62	26.2 *	11.3	151	30.6	6.9	527	› 53.0	2.9
70-79 years	510	48.6	3.6	40	16.1 *	6.8	89	› 36.1 *	6.9	344	›››50.9	4.1
80 + years	306	39.3	2.7	23	33.0 *	10.2	59	32.4 *	8.4	192	42.0	3.4
Total, age adjusted	4,845	47.0	1.4	474	31.5	4.5	889	› 41.2	3.6	3,113	›››48.4	1.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-159—Percent of females reporting physical activity at least five times per week: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
	All females											
Female												
17-19 years	640	42.0	4.4	152	29.6	5.4	150	›› 51.1	6.8	279	38.6	5.0
20-29 years	1,982	37.6	1.9	451	31.0	3.8	437	26.4	3.3	960	› 42.3	2.4
30-39 years	1,974	39.1	2.0	388	26.2	4.0	347	37.2	5.3	1,118	›› 40.9	2.4
40-49 years	1,469	36.3	2.2	233	13.8	2.8	205	›› 30.2	5.9	918	››› 39.5	2.6
50-59 years	1,105	37.4	2.3	137	27.9	6.4	148	37.3	5.9	719	38.6	2.6
60-69 years	1,310	43.0	2.3	176	17.8	3.6	261	››› 45.3	5.6	727	››› 45.0	2.9
70-79 years	1,163	37.9	2.3	116	17.6 *	5.2	268	›› 33.5	2.9	636	››› 41.1	3.2
80 + years	1,006	27.6	2.1	94	22.0 *	4.5	278	25.5	2.4	435	32.5	3.3
Total, age adjusted	10,649	38.0	1.3	1,747	23.3	1.3	2,094	››› 34.7	2.3	5,792	››› 40.4	1.4
	Healthy weight females[1]											
Female												
17-19 years	403	41.8	5.1	85	28.0	5.5	93	› 49.4 *	7.8	193	39.6	6.1
20-29 years	1,029	40.3	2.8	202	31.3	4.4	221	22.6	4.9	546	›› 46.0	3.5
30-39 years	750	46.6	3.2	109	24.6	5.8	100	37.0	9.8	509	››› 49.1	3.6
40-49 years	440	44.8	3.6	39	3.2 *	1.9	43	› 36.5 *	14.6	334	››› 47.2	3.6
50-59 years	295	42.5	3.8	27	11.6 *	7.5	38	››› 52.2 *	9.9	213	››› 43.5	4.6
60-69 years	328	51.8	3.8	35	13.3 *	6.2	56	›› 53.3 *	10.7	212	››› 52.9	4.8
70-79 years	337	45.0	3.6	20	26.6 *	16.6	66	32.6 *	6.2	213	50.0	4.5
80 + years	301	33.6	3.2	26	24.1 *	9.0	78	30.6 *	7.0	150	37.2	4.2
Total, age adjusted	3,883	44.1	2.0	543	18.8	2.2	695	››› 38.3	4.6	2,370	››› 46.7	2.1
	Overweight and obese females[1]											
Female												
17-19 years	194	39.8	4.9	62	28.8 *	9.3	42	54.8 *	14.6	71	38.0 *	7.1
20-29 years	833	31.6	3.0	241	31.2	5.9	191	29.6	4.2	341	32.6	3.8
30-39 years	1,107	28.7	2.6	261	25.1	5.4	237	39.2	6.0	536	26.9	2.9
40-49 years	918	30.0	2.6	186	16.1	3.4	148	›› 33.8	6.3	513	›› 32.0	3.5
50-59 years	702	32.9	2.4	99	31.4 *	9.0	102	30.8	7.8	436	33.9	2.6
60-69 years	808	39.2	2.5	118	24.0 *	5.8	170	35.7	7.2	429	›› 40.5	3.2
70-79 years	585	35.5	3.4	65	14.9 *	5.5	145	29.1	5.2	316	››› 38.8	4.1
80 + years	335	29.2	4.1	39	23.1 *	8.7	100	26.0	4.5	152	35.0	7.5
Total, age adjusted	5,482	32.3	1.2	1,071	24.5	2.5	1,135	››› 34.4	2.4	2,794	›› 33.2	1.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-160—Physical activity level of past month compared to 10 years ago: Adults age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	All persons															
Both sexes																
30-39 years	3,572	51.8	27.8	20.4	572	60.2	24.5	15.3	620	56.0	24.5	19.5	2,153	51.2	28.4	20.4
40-49 years	2,786	51.2	30.9	18.0	372	71.1	22.7	6.3	413	61.5	25.2	13.3	1,793	›››49.2	32.1	›››18.7
50-59 years	2,051	53.0	34.0	13.1	219	73.8	20.4	5.8	279	57.6	33.2	9.2	1,383	›››50.7	› 35.2	›› 14.1
60-69 years	2,604	59.8	31.7	8.5	306	76.7	14.5	8.8	497	67.8	› 25.0	7.1	1,539	›››57.6	›››33.9	8.6
70-79 years	2,148	67.8	26.2	6.1	197	72.3	16.7	11.1	451	72.3	21.7	6.0	1,268	66.6	27.9	5.5
80 + years	1,817	77.4	18.6	4.1	150	73.4	20.3	6.3	444	82.0	14.1	4.0	917	76.2	20.6	3.2
Total, age adjusted	14,978	55.9	29.6	14.5	1,816	69.7	21.0	9.4	2,704	62.4	25.6	12.1	9,053	›››54.4	›››30.8	›››14.8
	Healthy weight persons[1]															
Both sexes																
30-39 years	1,326	45.1	31.8	23.1	188	60.4	26.9	12.7	212	48.8	26.9	24.3	858	44.3	32.2	›› 23.5
40-49 years	825	41.5	39.2	19.3	90	64.9	30.0	5.0	113	51.2	34.6	14.1	575	›› 39.4	40.3	›››20.4
50-59 years	545	49.9	37.9	12.2	55	80.3	15.2	4.4	79	55.1	36.8	8.0	378	›››47.9	›› 38.8	› 13.3
60-69 years	675	55.0	37.5	7.5	87	84.2	13.2	2.6	119	64.7	28.8	6.5	416	›››52.5	›››40.0	7.6
70-79 years	649	63.3	30.6	6.0	53	69.0	20.0	11.0	129	72.3	24.7	3.0	397	61.1	32.4	6.5
80 + years	587	77.8	19.7	2.6	50	72.2	23.2	4.7	132	79.4	17.4	3.2	323	75.9	22.9	1.2
Total, age adjusted	4,607	50.0	34.8	15.2	523	69.9	22.9	7.2	784	›› 56.8	30.3	› 12.9	2,947	›››48.2	›››36.1	›››15.7
	Overweight and obese persons[1]															
Both sexes																
30-39 years	1,980	59.3	24.1	16.5	353	60.4	22.8	16.8	382	61.1	23.6	15.3	1,121	59.1	24.6	16.3
40-49 years	1,749	58.4	25.6	16.0	265	72.2	20.9	6.9	277	65.6	21.5	12.9	1,075	› 56.8	26.1	›››17.0
50-59 years	1,299	56.8	30.5	12.6	148	76.6	16.7	6.6	178	60.7	29.0	10.3	865	›››54.1	›› 32.2	13.6
60-69 years	1,620	60.8	29.6	9.6	180	72.5	15.6	11.9	321	65.2	26.4	8.3	955	› 59.4	›››31.2	9.4
70-79 years	1,094	69.4	24.3	6.3	105	72.6	20.2	7.2	234	75.4	17.1	7.6	660	68.1	26.4	5.4
80 + years	640	77.4	18.8	3.8	62	83.1	12.5	4.4	159	79.1	17.5	3.5	344	77.8	19.4	2.8
Total, age adjusted	8,382	60.8	26.1	13.0	1,113	70.6	19.4	10.0	1,551	65.2	23.4	11.4	5,020	›› 59.6	›› 27.2	13.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-161—Standard errors for physical activity level of past month compared to 10 years ago: Adults age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	Standard errors for all persons															
Both sexes																
30-39 years	3,572	1.7	1.4	1.1	572	3.9	3.6	2.0	620	4.3	3.2	3.3	2,153	1.8	1.6	1.4
40-49 years	2,786	1.8	1.9	1.3	372	3.6	3.5	1.4	413	4.1	3.8	2.7	1,793	2.4	2.2	1.6
50-59 years	2,051	1.6	1.4	1.0	219	4.9	5.1	2.3	279	4.9	4.5	1.8	1,383	1.9	1.7	1.1
60-69 years	2,604	1.2	1.1	0.8	306	2.9	2.6	2.8	497	3.9	3.5	2.1	1,539	1.4	1.4	0.9
70-79 years	2,148	1.4	1.2	0.7	197	3.3	4.5	3.1	451	3.0	2.4	1.8	1,268	1.7	1.6	0.7
80 + years	1,817	1.1	1.0	0.5	150	4.1	3.8	3.3	444	1.7	1.5	1.0	917	1.6	1.5	0.6
Total, age adjusted	14,978	0.8	0.7	0.6	1,816	2.0	2.0	1.0	2,704	1.9	1.7	1.2	9,053	1.0	0.9	0.7
	Standard errors for healthy weight persons[1]															
Both sexes																
30-39 years	1,326	2.5	2.0	2.1	188	6.6	6.2	3.0	212	7.4	5.7	6.0	858	2.7	2.3	2.4
40-49 years	825	2.4	2.7	2.0	90	6.6	6.2	3.0	113	5.9	6.6	3.9	575	2.8	3.0	2.4
50-59 years	545	3.0	3.0	1.8	55	7.1	6.9	2.9	79	9.4	10.4	3.0	378	3.6	3.6	2.2
60-69 years	675	2.7	2.5	1.1	87	7.1	6.0	1.4	119	6.5	5.6	3.8	416	3.1	3.1	1.5
70-79 years	649	2.6	2.4	1.2	53	9.6	9.0	4.1	129	4.8	4.8	1.6	397	3.4	3.2	1.6
80 + years	587	2.2	2.1	0.6	50	8.3	8.8	3.0	132	3.3	3.5	1.6	323	3.0	2.9	0.6
Total, age adjusted	4,607	1.2	1.2	0.8	523	3.3	3.3	1.5	784	3.2	3.2	2.0	2,947	1.4	1.4	0.9
	Standard errors for overweight and obese persons[1]															
Both sexes																
30-39 years	1,980	2.1	1.8	1.3	353	5.6	3.6	3.6	382	4.4	3.4	3.6	1,121	2.3	2.1	1.6
40-49 years	1,749	2.3	1.8	1.6	265	4.1	4.0	1.5	277	4.2	4.2	3.9	1,075	2.8	2.2	2.0
50-59 years	1,299	1.8	1.8	1.4	148	5.2	4.6	3.2	178	5.9	5.5	3.0	865	2.0	2.0	1.6
60-69 years	1,620	1.6	1.5	1.0	180	4.9	3.5	4.8	321	4.5	4.2	3.1	955	1.9	1.8	1.2
70-79 years	1,094	1.6	1.3	1.0	105	5.8	6.2	1.9	234	4.0	3.8	2.9	660	1.8	1.7	1.1
80 + years	640	1.6	1.4	0.9	62	4.6	4.4	1.6	159	3.4	3.6	1.2	344	1.9	1.7	1.0
Total, age adjusted	8,382	1.0	0.9	0.8	1,113	2.7	2.0	1.6	1,551	2.0	1.7	1.6	5,020	1.1	1.0	0.9

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-162—Physical activity level of past month compared to 10 years ago: Males age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	All males															
Male																
30-39 years	1,609	54.0	29.6	16.4	189	59.1	27.2	13.6	274	58.4	26.7	14.9	1,040	54.1	29.8	16.0
40-49 years	1,319	51.4	32.6	16.0	139	63.1	31.1	5.7	208	53.8	32.8	13.4	877	51.1	33.2	› 15.7
50-59 years	948	52.6	37.5	9.9	82	71.6	24.9	3.4	131	58.6	37.1	4.3	665	›› 51.4	38.1	›› 10.5
60-69 years	1,296	59.9	32.2	7.9	130	77.0	19.4	3.6	236	62.0	30.6	7.3	813	› 58.4	33.2	8.4
70-79 years	990	69.2	25.1	5.7	81	80.1	10.9	9.0	184	73.1	23.5	3.4	632	67.4	› 26.7	5.9
80 + years	822	75.5	20.2	4.3	56	66.3	18.5	15.2	168	81.8	13.4	4.9	483	74.1	22.3	3.6
Total, age adjusted	6,984	56.6	31.2	12.2	677	67.3	24.7	8.0	1,201	60.5	29.7	9.8	4,510	›› 55.8	32.0	›› 12.2
	Healthy weight males[1]															
Male																
30-39 years	583	45.8	36.7	17.6	81	60.4	24.1	15.5	113	54.1	32.5	13.4	353	44.9	37.4	17.7
40-49 years	386	44.7	38.5	16.8	51	58.8	34.3	6.9	70	40.5	42.6	16.9	242	44.4	38.5	17.1
50-59 years	250	48.8	44.5	6.7	28	67.8	28.0	4.2	41	57.5	40.3	2.2	165	46.9	46.0	7.1
60-69 years	347	55.1	37.9	7.1	52	73.2	21.8	5.1	63	57.0	38.5	4.5	204	53.3	39.2	7.5
70-79 years	312	68.5	26.1	5.4	33	74.9	9.1	16.1	63	77.6	20.8	1.6	184	65.8	› 28.7	5.5
80 + years	288	74.5	23.2	2.3	24	59.8	26.1	14.2	55	80.2	14.2	5.6	174	73.1	26.6	0.3
Total, age adjusted	2,166	51.2	37.0	11.9	269	64.4	25.8	9.8	405	55.4	35.2	9.5	1,322	› 49.9	38.0	12.0
	Overweight and obese males[1]															
Male																
30-39 years	875	60.4	25.2	14.4	94	56.0	30.6	13.4	145	64.9	21.4	13.7	585	60.2	25.6	14.3
40-49 years	831	56.2	29.0	14.8	79	60.0	33.9	6.1	129	64.5	23.3	12.2	562	55.6	29.5	› 14.8
50-59 years	598	56.3	32.5	11.2	49	86.7	9.7	3.6	76	60.0	35.6	4.4	429	››› 54.6	››› 33.6	› 11.9
60-69 years	813	61.1	31.0	8.0	62	73.7	23.9	2.4	151	61.5	30.4	8.2	527	60.0	31.7	› 8.4
70-79 years	510	68.9	25.4	5.8	40	80.8	15.9	3.4	89	74.8	20.1	5.1	344	67.2	26.8	6.1
80 + years	306	77.3	17.9	4.8	23	74.3	6.5	19.2	59	77.8	14.9	7.2	192	78.0	18.6	3.4
Total, age adjusted	3,933	60.4	27.9	11.7	347	68.6	23.8	7.5	649	65.2	25.2	9.6	2,639	59.6	28.6	11.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-163—Standard errors for physical activity level of past month compared to 10 years ago: Males age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	Standard errors for all males															
Male																
30-39 years	1,609	2.4	2.1	1.5	189	6.8	7.6	4.2	274	5.7	5.5	3.2	1,040	2.7	2.4	1.8
40-49 years	1,319	2.4	2.3	1.8	139	7.0	7.1	2.6	208	5.0	5.4	4.1	877	2.6	2.5	2.1
50-59 years	948	2.3	2.4	1.4	82	6.5	6.8	1.5	131	7.9	7.6	1.6	665	2.5	2.7	1.6
60-69 years	1,296	1.5	1.4	1.0	130	6.2	6.1	1.6	236	5.1	5.1	3.2	813	1.8	1.9	1.2
70-79 years	990	1.9	1.9	0.9	81	5.6	5.0	3.0	184	4.9	4.9	1.3	632	2.4	2.3	1.1
80 + years	822	1.7	1.4	0.8	56	9.2	7.2	6.8	168	3.9	3.1	1.7	483	2.0	2.0	0.9
Total, age adjusted	6,984	1.1	1.0	0.8	677	3.3	3.7	1.3	1,201	2.9	2.9	1.6	4,510	1.1	1.1	0.9
	Standard errors for healthy weight males[1]															
Male																
30-39 years	583	3.5	3.4	2.4	81	10.3	11.4	6.3	113	9.5	8.8	4.1	353	3.9	4.0	3.0
40-49 years	386	3.4	3.1	2.3	51	11.0	10.7	5.0	70	8.5	11.8	6.9	242	3.9	3.5	2.7
50-59 years	250	3.7	3.8	2.0	28	13.2	13.3	3.2	41	14.8	15.0	2.3	165	4.5	4.7	2.4
60-69 years	347	3.7	4.1	2.2	52	7.8	6.8	3.1	63	12.1	12.3	2.0	204	4.5	4.9	2.7
70-79 years	312	3.7	3.2	1.7	33	9.4	5.8	7.8	63	6.3	6.1	1.2	184	5.0	4.3	2.1
80 + years	288	3.3	2.9	0.9	24	13.2	10.6	10.4	55	6.5	6.0	3.3	174	3.9	3.8	0.3
Total, age adjusted	2,166	1.7	1.4	1.1	269	5.1	5.3	2.4	405	4.8	5.2	2.2	1,322	1.9	1.6	1.3
	Standard errors for overweight and obese males[1]															
Male																
30-39 years	875	3.0	2.8	1.8	94	9.5	8.2	6.0	145	6.2	5.1	4.2	585	3.2	3.1	2.1
40-49 years	831	2.8	2.5	2.4	79	9.9	10.6	2.6	129	6.3	4.7	5.3	562	3.0	2.8	2.9
50-59 years	598	3.2	3.0	1.9	49	6.1	5.2	2.4	76	11.5	11.4	2.1	429	3.4	3.4	2.1
60-69 years	813	2.2	2.2	1.3	62	10.1	10.0	1.5	151	7.1	6.7	5.1	527	2.5	2.5	1.5
70-79 years	510	2.7	3.0	1.5	40	9.5	9.6	1.8	89	8.1	7.9	1.9	344	3.2	3.4	1.9
80 + years	306	2.0	1.8	0.8	23	8.8	5.4	6.6	59	6.6	6.2	3.2	192	2.7	2.3	1.1
Total, age adjusted	3,933	1.5	1.4	1.1	347	4.0	4.0	1.8	649	3.8	3.3	2.1	2,639	1.5	1.5	1.3

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-164—Physical activity level of past month compared to 10 years ago: Females age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month			Sample size	Activity of Past Month		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	All females															
Female																
30-39 years	1,963	49.7	26.0	24.3	383	60.8	22.9	16.3	346	54.1	22.9	23.0	1,113	›› 48.1	27.0	› 24.9
40-49 years	1,467	51.0	29.2	19.9	233	76.1	17.3	6.6	205	68.4	18.4	13.2	916	››› 47.3	›› 30.9	››› 21.8
50-59 years	1,103	53.2	30.7	16.1	137	75.1	17.6	7.3	148	56.8	29.4	13.8	718	››› 50.1	› 32.4	›› 17.6
60-69 years	1,308	59.8	31.2	9.0	176	76.6	12.5	11.0	261	72.3	20.8	6.9	726	›› 56.8	››› 34.4	8.7
70-79 years	1,158	66.8	26.9	6.3	116	68.4	19.5	12.1	267	72.0	20.9	7.1	636	65.9	29.0	5.1
80 + years	995	78.3	17.8	3.9	94	75.7	20.9	3.4	276	82.0	14.4	3.6	434	77.7	19.3	3.0
Total, age adjusted	7,994	55.3	28.0	16.7	1,139	71.2	18.6	10.2	1,503	64.1	22.0	13.9	4,543	››› 52.8	››› 29.8	››› 17.4
	Healthy weight females[1]															
Female																
30-39 years	743	44.6	28.0	27.4	107	60.3	29.7	10.0	99	43.9	21.6	34.6	505	43.8	28.5	››› 27.7
40-49 years	439	39.2	39.6	21.1	39	72.4	24.8	2.7	43	64.2	25.0	10.8	333	›› 36.1	41.4	››› 22.5
50-59 years	295	50.7	33.2	16.1	27	89.8	5.5	4.7	38	›› 52.2	32.5	15.3	213	››› 48.5	››› 34.3	17.2
60-69 years	328	55.0	37.2	7.8	35	89.5	9.2	1.4	56	70.9	21.0	8.0	212	››› 51.9	››› 40.5	› 7.6
70-79 years	337	60.0	33.5	6.5	20	63.1	31.1	5.8	66	70.1	26.3	3.6	213	57.8	35.0	7.2
80 + years	299	79.5	17.8	2.7	26	78.3	21.7	0.0	77	79.1	18.6	2.3	149	77.7	20.5	1.8
Total, age adjusted	2,441	49.2	33.2	17.6	254	74.1	20.9	5.0	379	›› 58.9	24.8	› 16.3	1,625	››› 47.0	›› 34.7	››› 18.2
	Overweight and obese females[1]															
Female																
30-39 years	1,105	58.1	22.9	19.0	259	62.3	19.5	18.2	237	58.6	25.0	16.4	536	57.5	23.2	19.2
40-49 years	918	61.0	21.4	17.5	186	77.4	15.3	7.3	148	66.7	19.8	13.6	513	›› 58.5	21.5	››› 20.0
50-59 years	701	57.4	28.4	14.1	99	71.0	20.7	8.4	102	61.2	23.8	15.0	436	53.6	30.7	15.7
60-69 years	807	60.6	28.4	11.0	118	72.0	12.7	15.3	170	68.1	23.5	8.4	428	58.7	››› 30.7	10.6
70-79 years	584	69.8	23.5	6.7	65	68.6	22.4	9.0	145	75.6	15.8	8.6	316	69.1	26.1	4.8
80 + years	334	77.4	19.3	3.3	39	85.2	13.9	1.0	100	79.5	18.4	2.2	152	77.6	20.0	2.4
Total, age adjusted	4,449	61.3	24.1	14.6	766	71.1	17.7	11.2	902	65.3	21.9	12.8	2,381	›› 59.5	› 25.2	15.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences, compared to FSP participants, are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). The Bonferroni adjustment was used to adjust for the multiplicity of tests when examining multiple outcome categories.

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-165—Standard errors for physical activity level of past month compared to 10 years ago: Females age 30 and over

	Total Persons				Currently Receiving Food Stamps				Income-eligible Nonparticipants				Higher-income Nonparticipants			
	Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors			Sample size	Standard Errors		
		Less	Same	More		Less	Same	More		Less	Same	More		Less	Same	More
	Standard errors for all females															
Female																
30-39 years	1,963	1.6	1.1	1.4	383	3.2	2.9	3.0	346	5.1	3.4	5.5	1,113	1.9	1.5	1.5
40-49 years	1,467	2.1	2.1	1.5	233	3.7	3.4	1.5	205	6.6	4.7	3.7	916	3.1	2.7	1.9
50-59 years	1,103	2.0	1.7	1.3	137	5.0	5.1	3.1	148	5.5	5.4	3.1	718	2.4	2.0	1.6
60-69 years	1,308	1.8	1.5	1.1	176	5.3	3.4	4.1	261	5.2	4.4	2.7	726	2.1	1.8	1.3
70-79 years	1,158	2.0	1.5	1.1	116	4.6	5.6	4.1	267	3.3	2.8	2.4	636	2.5	2.1	1.1
80 + years	995	1.4	1.1	0.6	94	4.4	4.7	2.6	276	1.8	1.7	1.2	434	2.5	2.0	1.0
Total, age adjusted	7,994	0.9	0.7	0.7	1,139	1.8	1.7	1.3	1,503	2.6	2.0	1.8	4,543	1.2	1.0	0.7
	Standard errors for healthy weight females[1]															
Female																
30-39 years	743	2.9	2.0	2.6	107	6.0	5.9	3.6	99	9.2	6.2	10.7	505	3.4	2.4	2.9
40-49 years	439	3.1	3.6	2.8	39	9.7	9.7	1.6	43	10.0	10.2	6.6	333	3.5	3.8	3.2
50-59 years	295	4.1	4.0	2.5	27	5.2	3.5	4.4	38	10.2	12.8	6.2	213	4.8	4.7	3.0
60-69 years	328	3.4	3.0	1.3	35	7.3	7.1	1.4	56	11.3	8.8	6.7	212	3.8	3.7	1.8
70-79 years	337	3.3	3.0	1.7	20	16.8	16.2	5.8	66	7.4	7.3	2.2	213	4.4	4.0	2.3
80 + years	299	3.1	2.9	0.9	26	10.0	10.0	0.0	77	4.9	4.6	1.7	149	4.7	4.5	1.0
Total, age adjusted	2,441	1.6	1.6	1.0	254	3.8	3.9	1.3	379	4.4	4.1	3.8	1,625	1.8	1.7	1.1
	Standard errors for overweight and obese females[1]															
Female																
30-39 years	1,105	2.4	1.6	2.0	259	5.2	3.5	4.3	237	6.1	4.7	5.2	536	2.9	2.1	2.6
40-49 years	918	2.9	2.1	2.1	186	4.1	3.6	1.7	148	6.4	5.3	4.4	513	4.0	2.9	2.8
50-59 years	701	2.4	2.0	1.8	99	7.7	7.3	4.4	102	7.0	7.0	4.6	436	3.0	2.3	2.3
60-69 years	807	2.2	1.7	1.6	118	7.8	4.2	6.3	170	5.8	5.5	3.6	428	2.6	2.4	2.0
70-79 years	584	1.8	1.4	1.6	65	6.0	7.2	2.7	145	4.1	3.6	4.1	316	2.6	2.1	1.5
80 + years	334	2.0	1.8	1.5	39	5.7	5.7	0.9	100	4.1	4.5	1.4	152	2.6	2.3	1.5
Total, age adjusted	4,449	1.0	0.7	0.8	766	2.7	2.2	2.0	902	2.8	2.1	1.9	2,381	1.3	1.0	1.1

[1] Sample is limited to persons in the examination sample because height and weight were measured during the MEC exam.

Source: NHANES-III, 1988-94: Adult interview file and Examination file. Total includes persons with missing food stamp participation or income.

Table D-166—Percent of persons consuming at least 12 alcoholic beverages in their lifetime: Ages 12 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	3,101	40.4	2.3	769	38.7	3.0	695	36.4	3.9	1,406	41.0	2.7
20-29 years	3,419	86.9	1.1	641	81.9	3.3	797	79.9	2.8	1,729	› 89.6	1.1
30-39 years	3,211	92.2	0.8	534	90.6	1.7	571	› 84.1	2.8	1,936	93.9	0.8
40-49 years	2,499	89.0	1.1	344	83.8	2.8	378	81.3	3.1	1,610	› 90.7	1.2
50-59 years	1,809	86.4	1.3	193	80.9	4.1	255	79.9	4.4	1,223	88.1	1.4
60-69 years	2,236	84.3	1.4	259	75.0	4.1	425	76.2	3.9	1,342	›› 86.1	1.4
70-79 years	1,706	78.8	2.1	151	63.1	4.9	357	65.2	4.0	1,038	››› 84.0	2.0
80 + years	1,181	66.9	4.0	102	45.1	5.2	278	› 57.5	4.3	651	››› 73.7	4.4
Total, age adjusted	19,162	80.1	0.8	2,993	74.3	1.2	3,756	72.6	1.6	10,935	››› 82.3	0.8
Male												
12-19 years	1,463	42.1	3.5	343	39.0	4.7	348	41.9	6.8	650	41.8	4.4
20-29 years	1,596	92.4	1.0	207	95.4 *	1.2	397	› 86.3	3.4	854	93.7	1.0
30-39 years	1,413	96.7	0.7	172	97.7 *	1.2	248	92.5 *	3.4	916	97.4 *	0.6
40-49 years	1,178	95.3	0.8	125	92.2 *	4.0	194	95.9 *	1.2	781	95.7	1.0
50-59 years	827	94.7	1.0	70	95.5 *	1.6	115	87.7 *	5.8	582	96.0 *	1.1
60-69 years	1,129	91.6	1.3	112	90.8 *	5.8	205	87.7 *	5.7	716	92.5	1.4
70-79 years	805	91.4	1.5	71	90.9 *	4.3	149	81.6	4.4	519	93.5	1.3
80 + years	570	83.8	2.2	42	74.6 *	8.2	109	77.1 *	4.5	359	85.7	2.6
Total, age adjusted	8,981	86.6	0.7	1,142	85.9	1.2	1,765	82.7	1.8	5,377	87.4	0.7
Female												
12-19 years	1,638	38.5	2.7	426	38.4	3.6	347	31.0	3.4	756	40.1	3.4
20-29 years	1,823	81.5	1.6	434	75.7	4.4	400	73.1	4.6	875	› 85.3	1.8
30-39 years	1,798	87.8	1.1	362	86.2	2.7	323	› 77.6	3.6	1,020	90.2	1.2
40-49 years	1,321	83.1	1.9	219	78.6	4.4	184	65.5	6.1	829	85.8	2.1
50-59 years	982	78.7	2.0	123	72.8	5.5	140	72.8	5.7	641	80.4	2.3
60-69 years	1,107	78.1	2.3	147	68.5	5.4	220	67.0	5.4	626	80.2	2.4
70-79 years	901	69.6	3.0	80	46.1	7.0	208	58.2	4.8	519	››› 75.7	3.3
80 + years	611	58.0	5.5	60	35.7 *	6.7	169	50.4	5.9	292	››› 65.7	6.5
Total, age adjusted	10,181	74.5	1.1	1,851	68.3	1.5	1,991	64.1	2.0	5,558	››› 77.5	1.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-167—Percent of persons consuming at least 12 alcoholic beverages in past year: Ages 12 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	3,101	24.0	1.9	769	18.8	2.2	695	18.5	2.7	1,406	› 25.6	2.5
20-29 years	3,417	65.4	1.7	640	52.9	3.1	797	58.1	4.1	1,729	››› 69.1	2.0
30-39 years	3,211	64.8	1.6	534	56.9	4.4	571	45.8	4.4	1,936	› 68.5	1.8
40-49 years	2,499	54.8	2.2	344	40.8	5.3	378	43.4	4.4	1,610	›› 57.2	2.3
50-59 years	1,809	49.7	2.3	193	39.3	5.7	255	39.7	5.5	1,223	› 52.7	2.4
60-69 years	2,236	41.9	2.4	259	21.5	5.0	425	25.4	4.5	1,342	››› 45.5	2.7
70-79 years	1,706	29.4	2.7	151	5.7 *	2.3	357	››› 17.7	2.4	1,038	››› 33.6	3.1
80 + years	1,181	21.9	3.8	102	4.4 *	2.0	278	9.2 *	2.4	651	››› 30.1	5.4
Total, age adjusted	19,160	49.1	1.3	2,992	36.8	1.7	3,756	37.5	2.2	10,935	››› 52.4	1.4
Male												
12-19 years	1,463	28.1	2.8	343	27.0	4.4	348	23.5	4.6	650	28.4	3.8
20-29 years	1,595	78.1	1.9	206	69.8	4.5	397	71.6	4.8	854	80.0	2.2
30-39 years	1,413	76.6	1.8	172	75.8	8.0	248	59.7	6.7	916	78.5	2.0
40-49 years	1,178	65.2	3.3	125	63.4	7.4	194	63.6	6.1	781	65.9	3.4
50-59 years	827	61.8	2.5	70	56.6 *	9.8	115	53.6 *	9.9	582	63.4	3.0
60-69 years	1,129	54.1	2.6	112	52.1	9.0	205	38.7	7.0	716	56.6	2.8
70-79 years	805	42.0	3.2	71	8.3 *	3.6	149	› 23.1	5.2	519	››› 46.0	3.4
80 + years	570	33.0	4.5	42	11.4 *	6.6	109	20.8 *	5.0	359	›› 36.8	5.7
Total, age adjusted	8,980	59.8	1.6	1,141	53.8	3.0	1,765	50.5	3.5	5,377	›› 61.5	1.6
Female												
12-19 years	1,638	19.8	2.5	426	12.5	2.7	347	13.6	2.8	756	› 22.7	3.0
20-29 years	1,822	53.0	2.1	434	45.0	3.9	400	44.0	6.0	875	› 57.6	2.7
30-39 years	1,798	53.6	2.2	362	45.4	4.1	323	35.0	4.8	1,020	›› 58.2	2.6
40-49 years	1,321	44.9	2.6	219	27.1	6.9	184	21.5	5.3	829	›› 48.8	2.7
50-59 years	982	38.6	2.7	123	29.7	4.9	140	27.0	5.4	641	› 42.4	3.0
60-69 years	1,107	31.5	2.9	147	9.0 *	5.3	220	14.9	4.2	626	››› 35.2	3.3
70-79 years	901	20.1	2.8	80	4.1 *	2.6	208	›› 15.4	2.6	519	››› 22.9	3.6
80 + years	611	15.9	3.8	60	2.2 *	1.7	169	5.0 *	1.9	292	››› 25.6	5.8
Total, age adjusted	10,180	39.4	1.4	1,851	27.4	2.1	1,991	25.5	1.9	5,558	››› 43.5	1.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-168—Mean number drinks consumed on average drinking day, among persons consuming alcohol in past year: Ages 12 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
12-19 years	612	4.2	0.17	120	3.5	0.45	128	4.4	0.37	305	4.3	0.20
20-29 years	1,898	4.1	0.11	296	5.1	0.27	413	4.6	0.26	1,056	›››3.9	0.15
30-39 years	1,800	3.5	0.23	281	7.2	1.91	264	4.5	0.42	1,163	› 3.1	0.22
40-49 years	1,267	2.8	0.10	154	4.4	0.35	174	4.6	0.45	862	›››2.6	0.11
50-59 years	791	2.7	0.10	58	4.8 *	0.67	94	4.3	0.62	585	›››2.4	0.08
60-69 years	806	2.5	0.22	62	3.6 *	0.45	117	2.8	0.34	568	›› 2.3	0.09
70-79 years	436	2.2	0.25	18	2.9 *	0.47	60	5.2 *	2.87	317	› 1.9	0.09
80 + years	241	1.7	0.12	7	1.6 *	0.42	31	2.4 *	0.42	176	1.5	0.05
Total, age adjusted	7,851	3.2	0.06	996	4.7	0.36	1,281	4.3	0.22	5,032	›››3.0	0.07
Male												
12-19 years	385	4.6	0.22	76	3.8 *	0.62	94	4.8	0.59	173	4.8	0.29
20-29 years	1,178	4.8	0.15	145	6.6	0.56	282	› 5.4	0.37	650	›››4.5	0.20
30-39 years	1,024	4.2	0.38	123	10.2 *	3.62	166	5.3	0.52	676	3.7	0.33
40-49 years	791	3.1	0.13	91	5.2 *	0.49	128	4.3	0.38	521	›››2.9	0.14
50-59 years	475	3.1	0.14	32	5.5 *	0.57	60	4.9 *	0.84	348	›››2.8	0.12
60-69 years	568	2.7	0.11	48	4.0 *	0.63	94	3.2	0.52	389	› 2.6	0.13
70-79 years	299	2.6	0.43	15	3.4 *	0.64	35	10.1 *	6.40	223	› 2.1	0.11
80 + years	167	2.1	0.21	5	1.2 *	0.26	23	› 3.1 *	0.63	118	1.7	0.10
Total, age adjusted	4,887	3.7	0.09	535	5.8	0.74	882	5.1	0.48	3,098	›› 3.4	0.10
Female												
12-19 years	227	3.6	0.13	44	3.0 *	0.40	34	3.7 *	0.60	132	3.7	0.18
20-29 years	720	3.1	0.11	151	4.0	0.20	131	›› 3.2	0.22	406	›››3.0	0.13
30-39 years	776	2.5	0.12	158	4.2	0.30	98	3.4	0.46	487	›››2.3	0.11
40-49 years	476	2.3	0.13	63	3.2 *	0.26	46	5.3 *	1.10	341	›››2.1	0.13
50-59 years	316	2.1	0.12	26	4.1 *	1.11	34	3.3 *	0.81	237	› 1.8	0.09
60-69 years	238	2.3	0.54	14	2.8 *	0.20	23	› 2.0 *	0.30	179	›››1.7	0.07
70-79 years	137	1.6	0.07	3	2.2 *	0.59	25	2.0 *	0.20	94	1.5	0.08
80 + years	74	1.4 *	0.08	2	2.2 *	0.67	8	1.3 *	0.18	58	1.4 *	0.08
Total, age adjusted	2,964	2.5	0.07	461	3.4	0.20	399	3.4	0.26	1,934	›››2.3	0.04

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-169—Percent of persons who ever smoked: Ages 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	3,133	15.9	1.2	771	20.4	2.9	704	18.4	2.9	1,420	› 13.8	1.3
20-29 years	3,508	46.1	1.5	659	57.5	3.0	819	›› 46.3	3.0	1,765	››› 44.7	1.8
30-39 years	3,328	52.9	1.7	547	66.1	3.1	597	57.3	3.2	1,991	››› 50.9	2.1
40-49 years	2,582	58.8	1.7	357	69.1	3.6	393	64.4	3.9	1,652	›› 57.9	1.8
50-59 years	1,853	62.4	1.6	204	71.5	4.8	259	67.2	4.4	1,246	› 61.3	1.8
60-69 years	2,309	60.3	1.8	273	64.4	4.8	442	54.3	4.6	1,373	61.2	2.2
70-79 years	1,751	54.1	1.6	161	42.8	5.1	365	48.0	3.4	1,058	›› 57.1	1.8
80 + years	1,242	37.3	2.0	114	36.0	5.6	297	33.5	3.3	670	40.3	2.4
Total, age adjusted	19,706	49.2	0.7	3,086	56.7	1.6	3,876	›› 50.9	1.5	11,175	››› 48.4	0.7
Male												
12-19 years	1,478	15.1	1.6	346	14.5	3.7	351	17.4	5.0	655	13.8	2.0
20-29 years	1,643	48.4	1.9	214	64.8	5.3	407	› 51.0	4.1	877	››› 46.5	2.1
30-39 years	1,468	59.6	2.3	176	88.5	2.2	260	››› 63.6	4.6	945	››› 56.8	2.6
40-49 years	1,222	69.7	2.1	131	81.4	5.6	202	81.4	4.4	805	› 68.1	2.3
50-59 years	852	77.3	1.9	77	89.2 *	3.5	118	88.1 *	3.9	596	››› 75.2	2.1
60-69 years	1,166	72.0	2.2	117	86.6 *	4.4	214	›› 62.8	7.2	732	›› 72.1	2.2
70-79 years	823	75.5	2.4	73	66.9 *	12.4	153	71.5	5.1	528	75.6	2.9
80 + years	598	61.4	2.5	49	70.7 *	8.8	115	64.1	4.9	367	62.1	3.0
Total, age adjusted	9,250	58.2	0.8	1,183	70.8	2.0	1,820	›› 62.3	2.0	5,505	››› 56.6	0.9
Female												
12-19 years	1,655	16.7	1.6	425	24.9	3.6	353	19.4	3.8	765	›› 13.8	2.0
20-29 years	1,865	43.8	2.5	445	54.1	4.3	412	41.4	5.6	888	› 42.8	2.7
30-39 years	1,860	46.4	1.9	371	52.6	4.7	337	52.3	4.8	1,046	45.0	2.3
40-49 years	1,360	48.2	2.4	226	61.8	5.7	191	46.4	7.0	847	› 47.8	2.6
50-59 years	1,001	48.5	2.4	127	60.6	7.8	141	47.8	7.9	650	47.8	2.6
60-69 years	1,143	50.4	2.3	156	55.7	6.4	228	47.7	5.8	641	51.0	3.0
70-79 years	928	38.6	2.1	88	28.5	5.7	212	38.0	3.9	530	› 41.1	2.5
80 + years	644	24.5	2.9	65	24.0 *	7.7	182	22.6	4.5	303	25.6	3.7
Total, age adjusted	10,456	41.4	1.0	1,903	49.2	2.5	2,056	› 41.7	2.4	5,670	››› 40.7	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Persons are identified as "ever smoking" if they report smoking at least 100 cigarettes during their entire life.

Source: NHANES-III, 1988-94: Adult Interview file and Examination file. Sample for table contains persons completing an MEC exam. Total includes persons with missing food stamp participation or income.

Table D-170—Percent of persons smoking cigarettes in past 5 days: Ages 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	3,067	17.8	1.1	761	21.6	3.0	689	22.3	3.3	1,388	15.3	1.4
20-29 years	3,422	38.8	1.7	644	51.7	4.0	797	›› 39.3	2.7	1,729	››› 36.3	1.9
30-39 years	3,217	35.2	1.6	534	58.3	2.7	571	› 44.4	4.9	1,939	››› 31.8	1.9
40-49 years	2,501	31.7	1.7	344	56.0	4.6	378	47.2	4.0	1,611	››› 28.5	1.8
50-59 years	1,810	27.6	1.8	193	50.1	5.5	255	35.9	5.6	1,223	››› 25.2	2.2
60-69 years	2,237	21.6	1.4	261	37.2	6.7	425	25.3	4.1	1,342	› 20.2	1.6
70-79 years	1,705	12.0	1.0	150	11.4 *	3.5	357	14.0	2.0	1,038	11.3	1.5
80 + years	1,189	6.2	0.9	105	12.8 *	5.5	278	6.7 *	1.6	655	5.2	1.0
Total, age adjusted	19,148	27.7	0.7	2,992	43.6	1.7	3,750	››› 34.6	1.6	10,925	››› 25.2	0.8
Male												
12-19 years	1,444	16.4	1.5	339	14.1	3.4	344	24.5	5.8	640	13.9	2.0
20-29 years	1,597	41.5	2.4	208	56.4	5.2	397	46.9	3.9	854	››› 38.7	2.6
30-39 years	1,413	40.2	2.0	172	81.0	3.1	248	››› 50.9	7.4	916	››› 36.2	2.1
40-49 years	1,180	36.4	1.9	125	66.2	7.4	194	54.5	5.0	782	››› 32.8	2.0
50-59 years	828	32.0	2.4	70	69.7 *	7.4	115	›› 39.5	7.6	583	››› 29.6	3.0
60-69 years	1,128	22.5	2.2	112	39.6	8.2	205	25.3	5.3	716	› 21.4	2.4
70-79 years	804	13.7	1.5	70	14.1 *	4.0	149	19.9	3.8	519	12.7	1.7
80 + years	574	7.1	1.1	43	15.6 *	7.3	109	10.5 *	3.2	361	5.8	1.1
Total, age adjusted	8,968	30.5	0.8	1,139	52.5	2.3	1,761	››› 39.7	2.3	5,371	››› 27.8	0.9
Female												
12-19 years	1,623	19.2	1.5	422	27.4	4.2	345	20.3	3.4	748	› 16.7	2.2
20-29 years	1,825	36.2	2.0	436	49.5	4.8	400	›› 31.4	4.2	875	›› 33.8	2.1
30-39 years	1,804	30.3	1.9	362	44.4	4.0	323	39.4	5.6	1,023	››› 27.2	2.2
40-49 years	1,321	27.1	2.0	219	49.9	6.4	184	39.3	6.9	829	››› 24.2	2.2
50-59 years	982	23.5	2.3	123	39.5	6.8	140	32.5	7.0	640	›› 20.9	2.4
60-69 years	1,109	20.8	1.8	149	36.2	8.9	220	25.3	5.3	626	19.0	2.0
70-79 years	901	10.8	1.0	80	9.7 *	5.1	208	11.5 *	2.4	519	10.1	1.9
80 + years	615	5.7	1.2	62	11.9 *	6.5	169	5.3 *	1.9	294	4.7 *	1.3
Total, age adjusted	10,180	25.0	0.7	1,853	38.7	2.1	1,989	›› 30.0	2.4	5,554	››› 22.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Persons who smoked in past 5 days may include persons having smoked less than 100 cigarettes in entire life.

Source: NHANES-III, 1988-94: Adult Interview file and Examination file. Sample for table contains persons completing an MEC exam. Total includes persons with missing food stamp participation or income.

Table D-171—Percent of persons smoking pipes, cigars or chewed tobacco in past 5 days: Ages 12 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
12-19 years	3,102	2.3	0.6	768	1.6 *	1.0	696	3.0 *	1.2	1,407	2.4	0.7
20-29 years	3,422	4.7	0.7	644	2.9 *	1.0	797	3.8	1.5	1,729	4.9	0.8
30-39 years	3,217	3.6	0.5	534	1.6 *	0.5	571	› 3.8 *	1.0	1,939	› 3.6	0.6
40-49 years	2,501	4.2	0.7	344	4.8 *	2.1	378	5.3 *	2.4	1,611	4.2	0.7
50-59 years	1,811	4.1	0.7	194	6.1 *	2.4	255	4.5 *	1.2	1,223	3.9	0.8
60-69 years	2,239	5.4	0.7	262	5.1 *	2.3	425	11.2	3.5	1,342	5.0	0.7
70-79 years	1,706	6.4	0.7	151	11.3 *	2.5	357	9.6	2.7	1,038	› 5.0	0.7
80 + years	1,190	6.7	1.3	105	17.6 *	7.4	279	8.3 *	2.2	655	4.5	1.0
Total, age adjusted	19,188	4.3	0.3	3,002	4.6	0.9	3,758	5.3	0.9	10,944	4.0	0.3
Male												
12-19 years	1,463	4.4	1.1	343	3.3 *	2.2	348	6.0 *	2.5	650	4.5	1.4
20-29 years	1,597	9.0	1.2	208	8.4 *	3.0	397	7.4	2.8	854	9.0	1.2
30-39 years	1,413	6.8	1.1	172	2.8 *	1.2	248	› 8.5 *	2.6	916	› 6.8	1.2
40-49 years	1,180	8.1	1.2	125	11.5 *	5.4	194	10.0 *	4.6	782	7.8	1.3
50-59 years	828	7.8	1.4	70	13.8 *	5.5	115	6.9 *	2.7	583	7.5	1.5
60-69 years	1,130	9.1	1.2	113	6.0 *	3.7	205	12.4 *	4.1	716	9.1	1.4
70-79 years	805	12.8	1.4	71	10.7 *	4.3	149	24.2	5.6	519	10.5	1.4
80 + years	574	12.2	1.5	43	21.1 *	8.8	109	22.4 *	4.8	361	8.9	1.8
Total, age adjusted	8,990	8.0	0.6	1,145	8.4	2.0	1,765	10.1	1.6	5,381	7.7	0.6
Female												
12-19 years	1,639	0.1 *	>0	425	0.3 *	0.2	348	0.0	0.0	757	0.1 *	0.1
20-29 years	1,825	0.4 *	0.3	436	0.4 *	0.2	400	0.0	0.0	875	0.6 *	0.4
30-39 years	1,804	0.5 *	0.2	362	0.8 *	0.4	323	0.2 *	0.1	1,023	0.4 *	0.2
40-49 years	1,321	0.5 *	0.4	219	0.8 *	0.5	184	0.2 *	0.2	829	0.6 *	0.5
50-59 years	983	0.8 *	0.2	124	1.9 *	1.0	140	2.3 *	0.6	640	0.4 *	0.2
60-69 years	1,109	2.2	0.6	149	4.7 *	2.7	220	10.2 *	5.0	626	1.0 *	0.4
70-79 years	901	1.7 *	0.4	80	11.6 *	2.9	208	› 3.3 *	1.4	519	››› 0.3 *	0.2
80 + years	616	3.8 *	1.5	62	16.6 *	7.4	170	› 3.2 *	1.7	294	› 1.5 *	1.0
Total, age adjusted	10,198	0.8	0.2	1,857	2.6	0.5	1,993	1.6	0.5	5,563	››› 0.5	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
>0 Value to small to display.

Source: NHANES-III, 1988-94: Adult Interview file and Examination file. Sample for table contains persons completing an MEC exam. Total includes persons with missing food stamp participation or income.

Table D-172—Mean number cigarettes smoked in past 5 days by cigarette smokers: Ages 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error
Both sexes												
12-19 years	433	42.8	3.3	112	46.7	8.1	102	38.4	2.8	178	39.9	3.2
20-29 years	1,180	71.3	3.0	270	78.1	5.5	286	›› 56.8	6.7	535	74.9	3.7
30-39 years	1,139	84.9	3.7	266	67.2	6.0	226	83.0	8.7	590	››› 89.2	4.2
40-49 years	836	96.3	3.3	148	94.5	9.9	157	94.2	8.9	481	97.6	4.4
50-59 years	521	101.9	4.9	78	121.1 *	11.8	94	› 86.3	9.8	312	104.2	6.4
60-69 years	524	92.8	4.4	92	98.6	14.9	112	78.6	11.4	275	95.2	4.6
70-79 years	220	70.2	4.4	24	28.1 *	7.0	59	››› 71.2 *	7.8	116	››› 71.8	6.3
80 + years	73	49.1 *	7.3	11	19.0 *	8.9	17	28.7 *	6.9	36	››› 64.2 *	8.3
Total, age adjusted	4,926	79.5	1.9	1,001	76.4	3.7	1,053	71.8	3.8	2,523	81.9	2.2
Male												
12-19 years	236	46.0	4.1	53	53.2 *	13.3	70	31.1 *	4.6	88	46.2	5.3
20-29 years	634	75.8	4.6	99	85.7	10.0	177	››› 53.3	8.3	301	83.0	5.3
30-39 years	597	85.4	4.9	116	66.1	9.2	120	80.2	13.8	330	›› 90.2	5.3
40-49 years	490	107.5	5.6	74	99.5 *	11.3	104	92.9	12.5	276	111.7	6.5
50-59 years	279	104.7	5.8	33	119.3 *	16.5	52	78.1 *	13.5	176	109.3	7.2
60-69 years	305	104.0	5.8	54	83.9 *	6.8	63	82.4 *	17.1	162	›› 108.4	6.3
70-79 years	132	80.2	7.4	18	35.6 *	8.2	37	››› 87.2 *	14.8	68	›› 81.4	10.4
80 + years	44	58.4 *	7.6	7	44.6 *	16.7	9	33.9 *	8.9	24	72.4 *	10.6
Total, age adjusted	2,717	85.3	2.3	454	79.2	4.4	632	70.0	6.0	1,425	› 89.8	2.3
Female												
12-19 years	197	40.0	3.8	59	44.2 *	9.9	32	47.0 *	3.4	90	34.4	3.8
20-29 years	546	66.3	3.0	171	74.0	6.9	109	62.2	10.8	234	65.1	3.9
30-39 years	542	84.3	5.6	150	68.5	5.9	106	85.8	8.0	260	› 88.0	7.6
40-49 years	346	81.8	3.9	74	90.4 *	15.8	53	96.1 *	13.3	205	78.6	5.4
50-59 years	242	98.4	5.9	45	122.7 *	19.6	42	95.4 *	14.0	136	97.1	7.8
60-69 years	219	82.5	5.9	38	105.2 *	21.0	49	75.5 *	11.5	113	81.2	6.6
70-79 years	88	60.9	5.3	6	21.4 *	9.0	22	›› 59.4 *	10.1	48	››› 61.3 *	5.9
80 + years	29	42.9 *	9.6	4	8.5 *	3.9	8	25.0 *	9.9	12	››› 57.5 *	13.0
Total, age adjusted	2,209	73.2	2.2	547	74.8	5.4	421	74.6	4.3	1,098	72.7	3.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Persons are identified as smokers if they reported smoking cigarettes, cigars, pipes, or chewing tobacco in the past 5 days.

Source: NHANES-III, 1988-94: Adult Interview file and Examination file. Sample for table contains persons completing an MEC exam. Total includes persons with missing food stamp participation or income.

Table D-173—Mean age became regular smoker: Ages 12 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error
Both sexes												
12-19 years	329	14.0	0.2	80	13.5	0.3	71	› 14.5 *	0.4	149	13.9	0.3
20-29 years	1,296	16.2	0.1	286	15.0	0.2	314	››› 16.4	0.3	607	››› 16.4	0.1
30-39 years	1,622	16.8	0.1	303	16.2	0.5	290	16.3	0.5	941	16.9	0.1
40-49 years	1,410	17.7	0.2	199	16.9	0.5	221	16.0	0.5	902	17.9	0.2
50-59 years	1,080	18.2	0.2	121	16.3	0.9	153	17.2	0.5	725	› 18.5	0.3
60-69 years	1,320	18.5	0.2	161	18.8	0.6	233	18.8	0.8	802	18.6	0.3
70-79 years	891	19.4	0.3	79	17.3	0.7	176	› 20.9	1.2	559	19.1	0.4
80 + years	494	21.4	0.7	45	20.8 *	2.2	100	24.4	2.8	293	20.6	0.6
Total, age adjusted	8,442	17.2	0.1	1,274	16.3	0.2	1,558	› 17.0	0.2	4,978	››› 17.2	0.1
Male												
12-19 years	172	14.1	0.4	39	14.0 *	0.6	44	14.5 *	0.7	71	13.8	0.4
20-29 years	691	16.3	0.2	103	15.0	0.4	191	›› 16.5	0.4	339	›› 16.4	0.2
30-39 years	879	16.3	0.2	136	15.3	0.8	166	15.5	0.7	525	16.6	0.2
40-49 years	841	16.7	0.2	99	16.0	0.6	148	14.9	0.5	536	16.9	0.2
50-59 years	628	17.3	0.4	57	14.6 *	0.8	93	16.1	0.5	433	››› 17.6	0.4
60-69 years	840	16.7	0.3	94	15.8	0.6	148	16.2	0.8	519	16.9	0.3
70-79 years	596	16.9	0.3	56	16.4 *	1.2	112	16.6	1.2	378	16.8	0.3
80 + years	356	18.5	0.5	32	19.3 *	2.5	63	16.7 *	1.0	226	18.8	0.6
Total, age adjusted	5,003	16.4	0.1	616	15.4	0.3	965	15.7	0.3	3,027	›› 16.5	0.1
Female												
12-19 years	157	13.9	0.2	41	13.2 *	0.4	27	› 14.6 *	0.4	78	14.0	0.3
20-29 years	605	16.2	0.1	183	15.0	0.3	123	››› 16.3	0.3	268	››› 16.5	0.2
30-39 years	743	17.3	0.2	167	17.2	0.4	124	17.1	0.5	416	17.3	0.2
40-49 years	569	19.0	0.3	100	17.6	0.8	73	18.2 *	0.8	366	19.2	0.4
50-59 years	452	19.6	0.3	64	17.8	1.5	60	19.3 *	0.9	292	19.8	0.4
60-69 years	480	20.8	0.4	67	20.8	0.9	85	21.3	1.1	283	20.8	0.5
70-79 years	295	23.0	0.5	23	18.6 *	1.4	64	›› 24.4 *	1.4	181	› 22.6	0.6
80 + years	138	25.2	1.3	13	22.1 *	3.6	37	31.6 *	4.2	67	23.4	0.9
Total, age adjusted	3,439	18.3	0.1	658	17.1	0.2	593	››› 18.6	0.3	1,951	››› 18.4	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Persons are identified as smokers if they reported smoking cigarettes, cigars, pipes, or chewing tobacco in the past 5 days.

Source: NHANES-III, 1988-94: Adult Interview file and Examination file. Sample for table contains persons completing an MEC exam. Total includes persons with missing food stamp participation or income.

Table D-174—Percent of nonsmokers exposed to second hand smoke at home: All ages[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,960	35.7	1.7	487	52.7	3.1	327	›› 42.1	3.2	1,033	››› 27.2	2.4
1-2 years	2,524	38.2	1.9	829	50.0	3.3	482	48.6	3.8	1,049	››› 31.5	2.0
3-5 years	3,258	38.9	1.9	1,047	52.1	3.3	694	47.2	3.6	1,350	››› 31.5	1.9
6-11 years	3,185	40.2	2.1	937	53.7	4.8	662	48.0	5.2	1,397	››› 34.4	2.5
12-19 years	2,598	34.7	1.9	643	44.8	4.2	580	41.4	4.0	1,192	›› 31.3	2.7
20-29 years	2,172	18.3	1.8	363	22.8	4.7	495	17.2	4.8	1,154	17.2	1.9
30-39 years	2,015	13.0	1.5	257	21.3	4.5	340	22.1	4.5	1,309	› 10.8	1.4
40-49 years	1,603	15.3	1.8	189	45.0	8.0	215	› 23.3	5.0	1,083	››› 13.5	1.8
50-59 years	1,216	18.0	1.3	106	30.1 *	5.8	149	19.7 *	5.5	866	› 16.0	1.4
60-69 years	1,600	10.4	1.1	158	24.8	6.1	284	17.0	4.1	1,000	›› 8.7	1.2
70-79 years	1,369	8.2	1.0	110	14.9 *	5.5	265	7.6 *	2.2	869	7.5	1.1
80 + years	1,017	5.7	1.0	77	10.0 *	3.8	231	5.6 *	1.8	582	5.3	1.1
Total, age adjusted	24,517	20.9	0.9	5,203	33.7	2.2	4,724	› 26.1	2.2	12,884	››› 18.2	0.8
Male												
Under 1 year	982	35.0	2.2	233	52.2	3.7	157	42.8	4.2	531	››› 26.7	3.1
1-2 years	1,273	37.5	2.3	446	51.8	4.4	226	45.0	4.7	517	››› 30.7	3.1
3-5 years	1,579	36.5	2.3	504	49.9	4.5	334	47.2	3.9	654	››› 28.9	2.2
6-11 years	1,609	38.0	2.4	457	51.2	5.3	328	47.2	6.6	728	›› 32.0	3.2
12-19 years	1,177	34.3	2.9	281	49.9	5.6	267	› 33.6	6.6	535	›› 31.9	3.5
20-29 years	899	18.6	2.5	101	17.0 *	4.4	204	17.7	6.6	516	17.3	2.8
30-39 years	770	12.3	1.8	52	36.4 *	9.8	124	16.3 *	6.2	552	›› 10.7	2.0
40-49 years	635	12.7	2.3	46	43.8 *	13.9	85	30.1 *	10.7	463	› 10.8	2.3
50-59 years	498	15.0	2.2	32	13.7 *	5.6	59	11.9 *	6.4	370	14.6	2.2
60-69 years	742	12.4	1.9	54	21.5 *	10.9	124	16.4 *	6.9	499	10.8	2.1
70-79 years	588	8.1	1.3	47	12.0 *	6.8	89	6.4 *	3.0	404	8.3	1.7
80 + years	461	7.0 *	1.2	30	14.8 *	6.1	76	9.6 *	4.3	304	5.8 *	1.1
Total, age adjusted	11,213	19.9	0.9	2,283	33.3	3.4	2,073	24.5	3.3	6,073	››› 17.6	0.9
Female												
Under 1 year	978	36.5	1.8	254	53.2	4.5	170	› 41.3	4.0	502	››› 27.7	2.4
1-2 years	1,251	38.9	2.5	383	47.8	4.4	256	51.6	5.5	532	››› 32.4	2.6
3-5 years	1,679	41.4	2.3	543	54.1	4.0	360	47.2	4.9	696	››› 34.2	2.6
6-11 years	1,576	42.4	2.7	480	56.0	5.6	334	48.8	6.7	669	›› 36.9	3.4
12-19 years	1,421	35.2	2.6	362	40.4	5.0	313	48.0	5.6	657	30.7	3.6
20-29 years	1,273	18.1	2.0	262	24.9	5.3	291	16.9	4.5	638	17.2	2.3
30-39 years	1,245	13.5	2.0	205	18.3	5.0	216	25.4	6.0	757	11.0	1.8
40-49 years	968	17.3	2.1	143	45.5	8.8	130	›› 18.5 *	3.9	620	››› 15.6	2.1
50-59 years	718	20.2	1.6	74	34.0 *	7.5	90	26.0 *	6.8	496	› 17.0	1.7
60-69 years	858	8.9	1.0	104	26.2 *	7.0	160	17.6 *	4.9	501	›› 7.0	1.1
70-79 years	781	8.2	1.5	63	16.7 *	6.7	176	8.0 *	2.6	465	6.9	1.6
80 + years	556	5.0 *	1.3	47	8.6 *	4.5	155	4.5 *	1.9	278	4.9 *	1.7
Total, age adjusted	13,304	21.7	1.1	2,920	33.9	2.7	2,651	27.5	2.3	6,811	››› 18.8	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

[1] Children under age 8 are identified as nonsmokers. Persons age 8 and older are identified as nonsmokers if they answered no to all four types of nicotine exposure in past 5 days: cigarettes, cigars or pipes, chewing tobacco or snuff, and nicotine gum.

Source: NHANES-III, 1988-94: Examination sample. Smokers are identified from the MEC file; exposure is determined from the adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-175—Mean number cigarettes smoked per day in households where nonsmokers reside with smokers: All ages[1,2]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error	Sample size	Mean # Cigarettes	Standard Error
Both sexes												
Under 1 year	741	15.8	0.6	261	16.0	0.9	139	15.1	1.1	300	15.6	1.0
1-2 years	940	15.4	0.5	376	17.3	0.9	197	16.1	1.4	315	›› 13.8	0.8
3-5 years	1,251	16.5	0.7	482	19.0	1.2	281	15.7	1.4	429	›› 15.0	0.8
6-11 years	1,251	17.0	0.9	445	20.3	1.5	277	18.3	1.7	466	›› 15.3	1.0
12-19 years	962	17.0	1.1	288	20.3	2.1	231	17.9	2.8	375	16.2	1.1
20-29 years	465	13.5	1.4	90	14.7	1.9	119	12.2	2.5	210	13.9	2.0
30-39 years	310	10.4	0.8	49	19.1 *	2.1	67	››› 10.5 *	1.2	170	››› 9.7	1.0
40-49 years	288	12.4	0.8	50	14.9 *	2.0	52	16.1 *	2.7	162	11.8	1.0
50-59 years	235	13.5	1.0	30	20.6 *	5.3	31	11.2 *	3.5	144	13.0	1.2
60-69 years	239	15.7	0.9	44	18.4 *	2.6	47	16.0 *	2.4	119	14.9	1.2
70-79 years	132	14.3	1.1	14	19.4 *	2.5	29	13.9 *	2.6	76	14.3	1.1
80 + years	71	17.7 *	2.6	11	9.0 *	2.4	21	16.3 *	4.2	32	› 18.6 *	3.1
Total, age adjusted	6,885	14.1	0.5	2,140	17.8	1.1	1,491	› 14.4	1.1	2,798	››› 13.5	0.5
Male												
Under 1 year	368	15.3	0.8	125	15.7	1.6	68	16.4 *	1.6	154	14.2	0.9
1-2 years	488	14.1	0.7	217	17.8	1.3	98	13.9 *	1.9	149	››› 11.6	0.8
3-5 years	589	17.0	0.8	232	19.1	1.5	132	16.0	1.9	196	16.0	1.0
6-11 years	602	17.1	1.0	207	20.0	1.9	127	18.1	2.2	234	› 15.9	1.2
12-19 years	444	19.1	1.1	127	23.9	2.6	107	24.2 *	3.5	174	› 17.0	1.4
20-29 years	189	14.4	2.2	28	9.5 *	1.8	41	10.9 *	1.6	94	16.0	3.4
30-39 years	100	10.1 *	1.1	8	24.9 *	2.3	21	››› 10.1 *	2.3	62	››› 9.7 *	1.3
40-49 years	93	13.2 *	1.4	11	14.2 *	3.6	21	19.5 *	3.0	54	12.6 *	1.7
50-59 years	86	13.8 *	1.8	4	24.6 *	4.8	12	15.3 *	2.7	61	› 13.5 *	2.1
60-69 years	109	17.1	1.2	17	20.9 *	2.8	15	22.6 *	2.8	64	16.2 *	1.5
70-79 years	58	16.0 *	1.4	4	25.6 *	4.0	10	13.5 *	4.2	40	› 15.7 *	1.7
80 + years	35	17.7 *	4.1	5	5.2 *	1.8	9	10.4 *	2.8	16	› 22.5 *	6.6
Total, age adjusted	3,161	14.8	0.6	985	19.2	1.0	661	› 16.1	1.0	1,298	››› 14.4	0.8
Female												
Under 1 year	373	16.2	0.9	136	16.2	0.9	71	13.5 *	1.4	146	17.1	1.6
1-2 years	452	16.6	0.9	159	16.5	1.4	99	17.8 *	1.8	166	16.0	1.3
3-5 years	662	15.9	1.0	250	18.9	1.6	149	15.3	1.8	233	›› 14.2	0.8
6-11 years	649	16.8	0.9	238	20.6	1.7	150	18.6	2.2	232	›› 14.8	1.1
12-19 years	518	15.0	1.6	161	16.4	2.4	124	14.1	3.2	201	15.3	1.6
20-29 years	276	12.7	1.4	62	16.0 *	2.2	78	13.2 *	4.1	116	12.0	1.6
30-39 years	210	10.5	0.9	41	16.9 *	2.2	46	› 10.7 *	1.5	108	›› 9.6	1.2
40-49 years	195	11.9	0.8	39	15.2 *	1.8	31	12.3 *	4.4	108	11.5	1.0
50-59 years	149	13.4	1.2	26	20.2 *	5.8	19	9.5 *	4.2	83	12.6	1.1
60-69 years	130	14.2	1.4	27	17.6 *	3.5	32	11.2 *	2.2	55	13.3 *	1.6
70-79 years	74	13.2 *	1.6	10	17.0 *	2.9	19	14.0 *	3.2	36	13.0 *	1.6
80 + years	36	17.8 *	3.2	6	10.9 *	3.2	12	19.6 *	6.5	16	15.6 *	1.8
Total, age adjusted	3,724	13.5	0.5	1,155	17.1	1.0	830	› 13.2	1.5	1,500	››› 12.8	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Children under age 8 are identified as nonsmokers. Persons age 8 and older are identified as nonsmokers if they answered no to all four types of nicotine exposure in past 5 days: cigarettes, cigars or pipes, chewing tobacco or snuff, and nicotine gum.

2 Persons are identified as smokers if they are over age 7 and reported smoking cigarettes in the past 5 days.

Source: NHANES-III, 1988-94: Examination sample. Smokers are identified from the MEC file; exposure is determined from the adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-176—Percent of nonsmokers with high serum cotinine levels: Age 4 and over[1,2]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
4-5 years	1,195	72.2	3.6	400	93.8 *	1.5	271	›› 72.1	7.0	481	››› 62.6	4.6
6-11 years	2,678	67.6	2.1	799	86.8	3.2	570	›› 69.0	5.2	1,158	››› 61.7	2.8
12-19 years	2,338	68.0	2.2	600	83.4	2.7	518	›› 70.9	4.1	1,055	››› 63.4	2.7
20-29 years	2,031	74.0	2.0	340	77.9	4.4	458	71.7	4.8	1,089	73.7	2.2
30-39 years	1,906	62.1	2.3	245	71.5	5.1	317	72.1	4.5	1,239	60.5	2.4
40-49 years	1,531	63.8	2.5	183	82.5	3.1	202	72.4	4.8	1,035	››› 62.0	2.9
50-59 years	1,170	69.9	2.6	99	65.0 *	8.5	147	73.0	5.6	834	69.4	2.7
60-69 years	1,509	57.2	2.4	150	63.2	6.4	263	71.3	5.7	954	55.5	2.5
70-79 years	1,278	51.7	2.2	99	61.0 *	8.2	240	55.7	4.4	822	51.8	2.6
80 + years	944	42.0	3.8	66	51.3 *	7.5	209	46.5	4.6	546	37.4	4.6
Total, age adjusted	16,580	64.8	1.5	2,981	75.2	2.3	3,195	› 69.8	2.5	9,213	››› 62.4	1.5
Male												
4-5 years	606	68.4	4.7	193	93.5 *	2.8	131	›› 65.2 *	9.7	257	››› 60.1	5.6
6-11 years	1,358	66.9	2.6	390	83.4	5.1	280	75.9	4.7	610	››› 60.2	3.3
12-19 years	1,050	67.9	3.1	261	85.5	3.5	234	71.3	6.3	465	››› 63.0	3.7
20-29 years	848	81.5	2.3	94	82.6 *	9.4	192	72.5	5.7	488	83.2	2.4
30-39 years	733	71.4	3.0	51	74.3 *	6.9	118	84.0 *	5.4	527	69.9	3.3
40-49 years	609	68.7	3.8	46	90.0 *	3.5	79	›› 75.3 *	4.8	445	››› 67.1	4.3
50-59 years	483	74.9	3.8	28	60.0 *	12.3	58	75.1 *	9.5	361	75.3	3.9
60-69 years	703	63.1	3.4	51	69.1 *	14.0	115	73.4 *	9.0	479	61.9	3.7
70-79 years	548	55.2	3.0	41	43.0 *	15.1	80	54.8 *	8.5	382	55.6	3.5
80 + years	430	46.1	3.3	26	58.2 *	14.3	70	49.0 *	6.4	284	44.5	4.0
Total, age adjusted	7,368	69.3	1.7	1,181	76.5	3.3	1,357	73.1	2.9	4,298	›› 67.4	1.8
Female												
4-5 years	589	76.4	3.4	207	94.1 *	1.5	140	››› 81.1 *	3.9	224	››› 65.5	5.3
6-11 years	1,320	68.2	2.6	409	89.9	2.1	290	››› 63.0	7.5	548	››› 63.3	3.6
12-19 years	1,288	68.1	2.3	339	81.6	3.7	284	› 70.6	5.0	590	››› 63.8	3.5
20-29 years	1,183	67.7	3.2	246	76.2	5.9	266	71.1	6.0	601	› 65.2	3.6
30-39 years	1,173	54.8	2.6	194	70.9	6.0	199	65.1	6.4	712	›› 52.4	2.7
40-49 years	922	60.1	2.4	137	79.8	3.9	123	70.6 *	6.6	590	››› 57.9	2.8
50-59 years	687	66.1	2.7	71	66.1 *	10.2	89	71.3 *	5.2	473	64.6	2.8
60-69 years	806	52.6	2.6	99	60.9 *	7.7	148	69.7	6.6	475	50.2	3.0
70-79 years	730	49.4	2.7	58	72.6 *	8.0	160	56.0	5.3	440	›› 48.9	3.1
80 + years	514	39.9	4.4	40	49.5 *	7.7	139	45.9	5.1	262	33.0	5.3
Total, age adjusted	9,212	61.5	1.5	1,800	75.1	2.4	1,838	› 67.8	2.9	4,915	››› 58.3	1.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

1 Children under age 8 are identified as nonsmokers. Persons age 8 and older are identified as nonsmokers if they answered no to all four types of nicotine exposure in past 5 days: cigarettes, cigars or pipes, chewing tobacco or snuff, and nicotine gum.

2 High serum cotinine level is defined as > 0.10 ng/dL. Source: *Healthy People 2010* (U.S. DHHS, 2000a).

Source: NHANES-III, 1988-94: Examination sample. Smokers are identified from the MEC file; exposure is determined from the adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-177—Percent of persons with self-reported general health status of very good or excellent

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	82.0	1.0	502	69.2	2.3	340	72.7	2.7	1,131	›››89.7	0.8
1-2 years	2,688	78.6	1.3	851	63.4	2.5	510	67.4	2.8	1,133	›››87.4	1.1
3-5 years	3,464	75.2	1.4	1,083	59.8	2.7	720	› 66.4	2.5	1,462	›››83.9	1.2
6-11 years	3,467	75.7	1.6	992	59.2	3.1	708	62.5	4.0	1,540	›››83.8	1.5
12-19 years	3,440	66.9	1.5	828	45.4	4.1	761	54.1	3.9	1,568	›››75.7	1.5
20-29 years	3,783	56.6	1.7	676	41.5	3.5	874	44.7	3.4	1,931	›››62.7	1.9
30-39 years	3,594	61.0	1.5	578	35.7	3.6	623	34.1	3.9	2,165	›››67.8	1.6
40-49 years	2,794	54.4	2.0	372	18.8	3.9	416	26.5	4.8	1,796	›››60.0	1.9
50-59 years	2,056	46.0	1.6	219	13.4	3.8	279	› 26.6	4.3	1,384	›››51.9	1.9
60-69 years	2,606	40.0	1.6	305	12.1	2.6	496	›› 24.1	3.6	1,540	›››44.4	2.0
70-79 years	2,155	32.9	1.6	197	13.7	3.5	452	› 23.6	2.2	1,267	›››36.4	2.1
80 + years	1,825	31.2	1.9	151	16.9 *	3.5	445	› 26.8	2.6	915	›››37.4	3.2
Total, age adjusted	33,979	56.9	0.9	6,754	33.2	1.3	6,624	›› 39.5	1.6	17,832	›››63.4	0.8
Male												
Under 1 year	1,067	80.8	1.3	241	63.5	3.6	163	74.1	3.9	589	›››89.5	1.2
1-2 years	1,347	78.3	1.4	457	64.9	3.1	239	63.9	4.0	556	›››87.5	1.6
3-5 years	1,674	74.6	1.8	523	61.1	3.6	342	64.2	3.7	708	›››82.7	1.8
6-11 years	1,768	76.5	1.8	484	61.1	3.4	352	59.1	5.4	812	›››84.3	1.6
12-19 years	1,622	70.0	1.9	373	47.0	5.8	374	58.1	5.0	725	›››78.4	2.2
20-29 years	1,801	58.3	2.1	225	46.1	7.2	437	46.2	4.6	971	› 63.0	2.5
30-39 years	1,620	62.5	1.9	190	36.0	6.2	276	39.1	7.3	1,047	›››68.0	2.2
40-49 years	1,325	57.1	2.0	139	17.1 *	5.4	211	27.2	4.0	878	›››61.7	2.0
50-59 years	952	46.8	2.7	82	15.0 *	7.5	131	27.7	7.9	666	›››52.6	3.1
60-69 years	1,298	40.7	1.7	130	13.2 *	4.8	236	22.9	4.8	813	›››43.8	2.0
70-79 years	992	32.8	2.2	81	6.9 *	2.4	184	›› 22.1	4.8	631	›››35.8	2.5
80 + years	822	27.2	2.0	57	27.9 *	7.7	168	17.7	3.3	481	31.8	2.8
Total, age adjusted	16,288	58.1	0.8	2,982	34.1	2.0	3,113	› 40.2	2.0	8,877	›››63.9	0.8
Female												
Under 1 year	1,040	83.3	1.2	261	74.4	3.0	177	71.2	4.1	542	›››90.0	1.1
1-2 years	1,341	79.0	2.0	394	61.4	4.5	271	70.3	3.8	577	›››87.3	1.7
3-5 years	1,790	75.8	1.7	560	58.6	4.6	378	68.9	2.9	754	›››85.2	1.9
6-11 years	1,699	74.9	1.9	508	57.6	4.1	356	65.5	4.8	728	›››83.2	1.8
12-19 years	1,818	63.7	1.7	455	44.1	4.4	387	50.3	4.5	843	›››72.9	2.0
20-29 years	1,982	54.8	2.1	451	39.1	3.8	437	43.3	4.3	960	›››62.3	2.3
30-39 years	1,974	59.7	2.0	388	35.5	4.2	347	30.1	4.5	1,118	›››67.7	2.0
40-49 years	1,469	51.9	2.6	233	19.8	5.2	205	25.8 *	7.8	918	›››58.3	2.6
50-59 years	1,104	45.2	1.9	137	12.4 *	4.4	148	25.6	6.0	718	›››51.1	2.4
60-69 years	1,308	39.4	2.0	175	11.7 *	2.9	260	› 25.0	4.6	727	›››45.0	2.8
70-79 years	1,163	33.0	1.9	116	17.0 *	5.5	268	24.3	3.2	636	›››37.0	2.9
80 + years	1,003	33.3	2.3	94	13.3 *	4.3	277	›› 30.2	3.1	434	›››41.2	4.4
Total, age adjusted	17,691	55.6	1.1	3,772	32.6	1.5	3,511	› 38.7	2.0	8,955	›››62.9	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-178—Percent of persons with self-reported general health status of fair or poor

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	3.4	0.6	502	7.5	1.6	340	5.0 *	1.4	1,131	›››1.4 *	0.4
1-2 years	2,688	4.0	0.4	851	7.2	1.0	510	9.1	1.7	1,133	›››1.5 *	0.4
3-5 years	3,464	4.5	0.5	1,083	7.4	1.0	720	8.6	1.4	1,462	›››2.3	0.5
6-11 years	3,467	4.2	0.6	992	9.4	1.4	708	6.4	1.6	1,540	›››2.0	0.5
12-19 years	3,440	6.5	0.7	828	13.5	2.0	761	10.5	1.6	1,568	›››4.0	0.7
20-29 years	3,783	9.4	0.6	676	18.4	2.7	874	13.4	1.5	1,931	›››6.4	0.8
30-39 years	3,594	9.8	0.9	578	28.8	3.5	623	26.2	3.4	2,165	›››5.4	0.8
40-49 years	2,794	13.9	1.3	372	45.6	4.7	416	› 32.2	3.6	1,796	›››9.7	1.2
50-59 years	2,056	18.6	1.4	219	52.9	6.8	279	› 35.7	4.9	1,384	›››14.0	1.5
60-69 years	2,606	26.6	1.5	305	60.6	4.9	496	›› 41.7	4.8	1,540	›››21.8	1.5
70-79 years	2,155	32.5	1.6	197	61.3	5.1	452	› 45.9	2.8	1,267	›››26.6	1.8
80 + years	1,825	36.8	1.6	151	51.9	5.4	445	42.2	2.4	915	›› 31.8	2.7
Total, age adjusted	33,979	13.5	0.5	6,754	32.4	1.4	6,624	›››24.3	1.0	17,832	›››9.7	0.4
Male												
Under 1 year	1,067	3.4	0.6	241	9.0	2.1	163	5.5 *	2.1	589	›››0.9 *	0.4
1-2 years	1,347	4.5	0.5	457	7.4	1.2	239	9.9	2.2	556	›››1.6 *	0.6
3-5 years	1,674	5.4	0.7	523	7.9	1.4	342	11.4	2.4	708	›› 3.0	0.7
6-11 years	1,768	3.4	0.5	484	8.7	1.7	352	4.6 *	1.4	812	›››1.8 *	0.5
12-19 years	1,622	5.5	0.9	373	13.0	2.8	374	10.1	2.3	725	›››3.2	0.9
20-29 years	1,801	8.8	0.8	225	14.0	3.7	437	13.5	2.2	971	6.6	1.0
30-39 years	1,620	7.9	1.0	190	28.2	6.2	276	23.8	5.4	1,047	›››4.7	1.0
40-49 years	1,325	11.0	1.4	139	36.6	6.8	211	26.6	4.5	878	›››8.0	1.3
50-59 years	952	17.9	1.9	82	50.6	12.7	131	34.9	8.2	666	›› 14.1	1.9
60-69 years	1,298	24.6	1.6	130	65.3	6.5	236	›› 43.3	5.5	813	›››20.4	1.5
70-79 years	992	33.8	2.2	81	57.2	10.9	184	56.2	4.4	631	›› 29.0	2.4
80 + years	822	40.2	2.6	57	50.2 *	8.8	168	47.5	3.8	481	36.8	3.7
Total, age adjusted	16,288	12.5	0.4	2,982	30.1	1.7	3,113	›› 23.8	1.7	8,877	›››9.5	0.4
Female												
Under 1 year	1,040	3.4	0.7	261	6.2 *	1.8	177	4.4 *	2.1	542	› 1.8 *	0.8
1-2 years	1,341	3.4	0.5	394	6.8	1.4	271	8.4	2.2	577	›››1.3 *	0.4
3-5 years	1,790	3.6	0.5	560	6.9	1.6	378	5.4	1.4	754	›››1.5 *	0.4
6-11 years	1,699	4.9	0.9	508	10.0	1.9	356	8.0	2.3	728	›››2.3 *	0.8
12-19 years	1,818	7.5	0.9	455	13.9	2.5	387	10.9	2.6	843	›››4.8	0.9
20-29 years	1,982	10.0	1.0	451	20.7	3.7	437	13.2	2.2	960	›››6.2	1.1
30-39 years	1,974	11.6	1.2	388	29.1	3.8	347	28.0	4.4	1,118	›››6.2	1.1
40-49 years	1,469	16.8	1.8	233	51.3	6.4	205	37.4	7.3	918	›››11.4	1.5
50-59 years	1,104	19.2	1.6	137	54.4	6.0	148	› 36.5	4.6	718	›››13.8	1.8
60-69 years	1,308	28.4	2.0	175	58.6	6.5	260	› 40.5	5.4	727	›››23.1	2.1
70-79 years	1,163	31.6	1.9	116	63.4	5.6	268	›› 41.5	4.6	636	›››24.4	2.2
80 + years	1,003	34.9	1.8	94	52.4	5.7	277	40.2	3.2	434	›››28.4	2.8
Total, age adjusted	17,691	14.5	0.6	3,772	33.9	1.7	3,511	›››25.0	1.5	8,955	›››10.0	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-179—Percent of persons with physician-reported general health status of very good or excellent

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,921	87.5	3.1	478	85.8	2.8	323	86.1 *	4.0	1,011	88.6 *	3.3
1-2 years	2,451	89.7	2.4	804	90.1	2.4	461	89.0	2.8	1,023	90.0 *	2.5
3-5 years	3,191	89.1	2.7	1,019	88.7	2.6	683	89.7	2.3	1,325	89.3	3.3
6-11 years	3,176	88.1	2.6	931	89.3	2.1	653	87.1	3.1	1,400	88.1	3.4
12-19 years	3,043	87.1	3.8	745	84.6	2.7	682	84.2	4.6	1,389	88.5	4.3
20-29 years	3,407	87.3	2.0	638	81.0	3.5	795	› 89.4	2.2	1,719	87.8	2.6
30-39 years	3,227	81.7	2.7	522	65.8	3.7	580	72.6	5.4	1,940	››› 84.4	2.7
40-49 years	2,493	72.3	2.6	336	48.1	4.9	379	62.4	5.1	1,606	››› 76.2	2.5
50-59 years	1,779	59.7	3.4	191	35.2	6.0	245	39.8	5.4	1,205	››› 63.8	3.5
60-69 years	2,231	48.1	3.7	266	25.6	5.8	416	33.8	4.0	1,339	››› 52.2	4.0
70-79 years	1,694	38.2	3.7	150	36.5	6.8	356	› 23.2	3.8	1,029	41.8	3.9
80 + years	1,208	29.6	3.4	110	12.8 *	4.1	291	›› 24.7	3.6	653	››› 35.8	4.1
Total, age adjusted	29,821	73.6	2.5	6,190	61.4	2.1	5,864	› 66.3	2.8	15,639	››› 76.0	2.6
Male												
Under 1 year	960	87.3 *	3.2	227	84.4 *	3.5	155	89.3 *	3.7	520	87.9 *	3.6
1-2 years	1,237	89.1 *	2.3	434	89.2	2.5	214	88.5 *	3.6	507	89.8 *	2.6
3-5 years	1,538	89.4 *	2.7	486	87.7	3.2	331	89.2 *	3.6	638	90.3 *	3.0
6-11 years	1,608	88.3	2.6	450	90.0	2.0	327	87.8 *	3.3	733	88.0 *	3.3
12-19 years	1,431	87.2	4.1	333	85.4	3.7	342	88.4 *	4.7	637	87.6 *	4.7
20-29 years	1,597	86.6	2.3	208	81.1	5.7	395	88.1 *	2.9	854	86.5 *	3.0
30-39 years	1,424	82.5	2.5	165	70.7	7.2	256	77.1	6.0	921	83.8	2.5
40-49 years	1,191	72.7	2.6	124	34.6 *	5.8	197	››› 66.4	6.9	786	››› 76.2	2.4
50-59 years	821	59.9	3.9	72	26.6 *	8.0	113	37.1 *	9.2	577	››› 64.5	3.7
60-69 years	1,117	46.9	4.2	113	28.5 *	8.2	198	30.2	5.3	709	› 50.0	4.5
70-79 years	797	43.1	4.3	68	33.9 *	12.6	150	21.5 *	5.1	514	46.4	4.3
80 + years	583	29.5 *	3.8	48	16.6 *	6.6	112	14.2 *	3.6	359	› 33.4 *	4.3
Total, age adjusted	14,304	73.9	2.5	2,728	59.4	2.7	2,790	› 66.9	2.8	7,755	››› 75.8	2.6
Female												
Under 1 year	961	87.7 *	3.2	251	87.2 *	3.0	168	82.6 *	5.1	491	89.5 *	3.4
1-2 years	1,214	90.3 *	2.6	370	91.3 *	3.0	247	89.4 *	3.3	516	90.3 *	2.9
3-5 years	1,653	88.8	2.9	533	89.6	2.5	352	90.2 *	2.8	687	88.4 *	3.8
6-11 years	1,568	87.8	3.0	481	88.6	3.0	326	86.5 *	4.0	667	88.2 *	3.9
12-19 years	1,612	86.9	3.5	412	84.0	2.9	340	80.0	4.9	752	89.4 *	4.0
20-29 years	1,810	88.0	2.0	430	81.0	4.1	400	› 90.9 *	2.5	865	89.1 *	2.4
30-39 years	1,803	81.0	3.2	357	62.9	4.8	324	69.0	5.9	1,019	››› 85.1	3.1
40-49 years	1,302	72.0	3.1	212	56.1	6.9	182	58.2	6.1	820	›› 76.2	3.0
50-59 years	958	59.6	3.7	119	40.2 *	8.7	132	42.3 *	6.1	628	› 63.0	4.1
60-69 years	1,114	49.1	3.8	153	24.4 *	7.0	218	36.5	5.9	630	››› 54.2	4.1
70-79 years	897	34.5	3.7	82	38.0 *	6.8	206	23.9	4.3	515	37.8	4.2
80 + years	625	29.6 *	3.7	62	11.5 *	4.7	179	››› 28.3 *	4.2	294	››› 37.4 *	4.5
Total, age adjusted	15,517	73.4	2.6	3,462	62.7	2.6	3,074	65.3	3.0	7,884	››› 76.3	2.7

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-180—Percent of persons with physician-reported general health status of fair or poor

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,921	0.7 *	0.2	478	2.0 *	0.7	323	0.6 *	0.4	1,011	› 0.3 *	0.2
1-2 years	2,451	0.2 *	0.1	804	0.1 *	0.1	461	0.2 *	0.2	1,023	0.3 *	0.2
3-5 years	3,191	0.4 *	0.2	1,019	0.4 *	0.2	683	1.3 *	0.5	1,325	0.3 *	0.2
6-11 years	3,176	1.2	0.4	931	1.3 *	0.6	653	1.4 *	0.8	1,400	1.0 *	0.4
12-19 years	3,043	1.0 *	0.4	745	0.8 *	0.3	682	0.9 *	0.5	1,389	0.9 *	0.5
20-29 years	3,407	1.2	0.4	638	1.9 *	0.7	795	1.3 *	0.7	1,719	1.1 *	0.5
30-39 years	3,227	2.2	0.4	522	5.5	1.6	580	4.4	1.6	1,940	› 1.6	0.5
40-49 years	2,493	4.7	0.8	336	14.8	4.3	379	10.0	2.5	1,606	›› 3.4	0.8
50-59 years	1,779	8.7	1.2	191	21.2	4.7	245	22.0	6.2	1,205	›› 6.4	1.0
60-69 years	2,231	15.8	1.3	266	38.9	5.8	416	27.8	4.3	1,339	››› 12.4	1.2
70-79 years	1,694	26.8	2.1	150	44.2	5.9	356	40.0	4.0	1,029	››› 22.1	2.1
80 + years	1,208	36.2	2.9	110	60.4	6.5	291	›› 42.3	3.9	653	››› 28.5	2.9
Total, age adjusted	29,821	6.4	0.5	6,190	13.4	1.0	5,864	› 10.9	1.0	15,639	››› 5.0	0.4
Male												
Under 1 year	960	0.9 *	0.3	227	2.8 *	1.2	155	0.7 *	0.7	520	› 0.3 *	0.2
1-2 years	1,237	0.2 *	0.2	434	0.2 *	0.2	214	0.2 *	0.1	507	0.3 *	0.3
3-5 years	1,538	0.6 *	0.3	486	0.3 *	0.2	331	1.4 *	0.7	638	0.5 *	0.4
6-11 years	1,608	1.1 *	0.4	450	0.8 *	0.3	327	2.2 *	1.7	733	0.6 *	0.4
12-19 years	1,431	1.2 *	0.7	333	0.5 *	0.4	342	0.5 *	0.4	637	1.2 *	0.9
20-29 years	1,597	0.9 *	0.3	208	2.0 *	0.8	395	1.3 *	0.7	854	0.8 *	0.4
30-39 years	1,424	1.9 *	0.6	165	2.3 *	0.9	256	1.1 *	0.6	921	2.1 *	0.8
40-49 years	1,191	4.2	0.9	124	12.9 *	5.3	197	7.8 *	3.0	786	3.4	0.8
50-59 years	821	9.1	1.8	72	14.6 *	4.8	113	32.5	9.7	577	5.9	1.5
60-69 years	1,117	17.0	1.7	113	34.6	7.9	198	35.1	6.0	709	› 14.4	1.8
70-79 years	797	28.1	2.6	68	45.7	10.8	150	49.8	6.2	514	› 23.2	2.5
80 + years	583	36.6	3.7	48	46.9 *	7.5	112	52.7	5.4	359	30.0	4.2
Total, age adjusted	14,304	6.5	0.5	2,728	11.2	1.4	2,790	12.7	1.4	7,755	››› 5.3	0.5
Female												
Under 1 year	961	0.5 *	0.3	251	1.2 *	0.8	168	0.5 *	0.5	491	0.2 *	0.2
1-2 years	1,214	0.2 *	0.2	370	0.1 *	0.1	247	0.3 *	0.3	516	0.3 *	0.3
3-5 years	1,653	0.3 *	0.1	533	0.4 *	0.3	352	1.2 *	0.9	687	0.1 *	0.1
6-11 years	1,568	1.3 *	0.5	481	1.7 *	1.2	326	0.7 *	0.5	667	1.4 *	0.7
12-19 years	1,612	0.7 *	0.2	412	1.0 *	0.4	340	1.3 *	0.8	752	0.5 *	0.3
20-29 years	1,810	1.4 *	0.6	430	1.9 *	0.8	400	1.3 *	0.8	865	1.5 *	0.8
30-39 years	1,803	2.4	0.6	357	7.5	2.4	324	7.1	2.9	1,019	›› 1.2 *	0.5
40-49 years	1,302	5.3	1.1	212	16.0	6.8	182	12.3 *	4.1	820	3.4	1.0
50-59 years	958	8.4	1.1	119	25.0	6.1	132	12.2 *	4.0	628	›› 6.8	1.0
60-69 years	1,114	14.8	1.7	153	40.5	7.2	218	› 22.3	5.8	630	››› 10.7	1.7
70-79 years	897	25.9	2.4	82	43.4	6.3	206	35.8	4.3	515	››› 21.1	2.6
80 + years	625	36.1	3.0	62	65.1 *	7.4	179	››› 38.6	4.5	294	››› 27.4	2.9
Total, age adjusted	15,517	6.3	0.5	3,462	14.6	1.4	3,074	››› 9.8	1.3	7,884	››› 4.8	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-181—Percent of persons reporting high blood pressure: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,187	1.7	0.44	244	0.2 *	0.15	284	2.2 *	1.28	530	›› 1.8 *	0.49
20-29 years	3,701	5.4	0.53	660	11.8	2.75	835	5.8	1.96	1,912	›› 4.3	0.67
30-39 years	3,565	8.4	0.74	571	15.2	2.74	615	12.7	2.12	2,156	›› 7.3	0.83
40-49 years	2,776	16.6	1.20	367	34.8	5.07	410	› 20.9	3.40	1,792	››› 14.9	1.29
50-59 years	2,047	29.5	1.56	217	44.4	4.89	277	› 28.4	4.11	1,380	››› 27.8	1.71
60-69 years	2,594	37.8	1.25	304	55.6	3.77	494	› 40.7	4.00	1,532	››› 36.0	1.44
70-79 years	2,143	43.4	1.10	193	54.7	6.60	452	48.3	3.05	1,265	41.4	1.54
80 + years	1,810	38.8	1.21	148	47.3	6.10	444	39.5	2.37	909	38.3	1.53
Total, age adjusted	19,823	19.1	0.50	2,704	30.3	1.77	3,811	››› 21.5	0.99	11,476	››› 17.8	0.60
Male												
17-19 years	559	1.4 *	0.75	95	0.0	0.00	138	1.7 *	1.51	256	1.6 *	0.97
20-29 years	1,738	4.2	0.74	214	13.0	5.40	409	5.0 *	2.45	954	3.4	0.91
30-39 years	1,596	7.1	1.20	184	14.6	6.16	269	7.4 *	2.69	1,040	6.6	1.20
40-49 years	1,312	17.8	1.44	137	27.3	6.28	206	24.0	5.61	875	16.5	1.58
50-59 years	946	29.8	2.26	80	54.2 *	11.67	129	26.1	6.05	664	› 28.5	2.49
60-69 years	1,291	34.0	2.04	128	45.3	9.13	235	34.6	6.25	809	33.2	2.57
70-79 years	985	35.6	1.66	78	36.2 *	8.22	184	36.2	5.32	629	35.4	1.87
80 + years	816	29.9	1.69	54	34.5 *	6.31	169	30.2	3.47	479	31.0	2.11
Total, age adjusted	9,243	17.6	0.61	970	27.3	2.72	1,739	› 18.6	1.64	5,706	››› 16.8	0.74
Female												
17-19 years	628	2.0 *	0.88	149	0.2 *	0.21	146	2.6 *	1.89	274	1.9 *	1.16
20-29 years	1,963	6.5	0.86	446	11.2	2.97	426	6.6	1.90	958	5.2	1.10
30-39 years	1,969	9.6	1.03	387	15.5	3.00	346	16.8	2.98	1,116	8.0	1.38
40-49 years	1,464	15.5	1.62	230	39.6	6.85	204	›› 18.1	4.68	917	››› 13.3	1.72
50-59 years	1,101	29.1	2.00	137	38.4	5.90	148	30.6	5.18	716	27.1	2.30
60-69 years	1,303	40.9	1.49	176	59.8	4.88	259	45.4	5.56	723	››› 38.6	1.83
70-79 years	1,158	48.9	1.63	115	63.7	8.54	268	53.3	3.99	636	46.7	2.47
80 + years	994	43.6	1.72	94	51.4	7.62	275	43.0	3.21	430	43.3	2.22
Total, age adjusted	10,580	20.2	0.62	1,734	31.7	2.61	2,072	›› 23.2	1.30	5,770	››› 18.5	0.70

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-182—Percent of persons with measured high blood pressure: Ages 17 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,118	0.5 *	0.3	234	0.9 *	0.5	276	0.2 *	0.2	495	0.5 *	0.4
20-29 years	3,500	2.6	0.4	656	3.9	1.2	819	4.3	1.8	1,761	2.1	0.4
30-39 years	3,320	7.0	0.6	546	8.1	1.5	595	9.0	1.7	1,987	6.6	0.8
40-49 years	2,577	13.2	1.0	356	17.4	2.4	393	12.6	2.9	1,648	12.6	1.1
50-59 years	1,849	25.2	1.6	203	41.6	4.1	258	› 30.4	4.0	1,245	››› 23.7	2.1
60-69 years	2,304	37.1	1.4	272	46.8	4.5	442	41.5	4.3	1,370	› 35.6	1.6
70-79 years	1,748	53.1	1.7	160	52.4	5.7	365	56.3	3.2	1,056	53.7	2.0
80 + years	1,238	62.8	1.8	114	60.6	4.7	296	65.7	3.8	668	63.6	1.9
Total, age adjusted	17,654	18.7	0.5	2,541	23.2	1.2	3,444	20.8	1.0	10,230	››› 18.1	0.6
Male												
17-19 years	526	0.3 *	0.2	91	2.4 *	1.6	141	0.4 *	0.4	232	0.0	0.0
20-29 years	1,640	4.3	0.7	214	7.3	3.6	407	7.4	3.4	875	3.6	0.7
30-39 years	1,464	10.6	1.2	176	11.8	3.7	260	10.9	2.8	942	10.8	1.4
40-49 years	1,221	17.4	1.6	131	16.5	3.9	202	14.9	4.0	804	17.1	1.5
50-59 years	850	30.2	2.5	77	45.4	9.6	117	31.6	6.7	595	29.5	2.9
60-69 years	1,163	37.9	2.1	116	31.4	7.3	214	38.5	6.3	731	38.7	2.2
70-79 years	822	47.8	2.6	72	47.2	11.6	153	52.9	5.1	528	47.0	3.0
80 + years	598	53.7	3.0	49	57.2 *	11.0	115	59.3	6.9	367	54.8	2.8
Total, age adjusted	8,284	20.6	0.8	926	23.0	2.0	1,609	21.6	1.6	5,074	20.3	0.9
Female												
17-19 years	592	0.6 *	0.5	143	0.3 *	0.3	135	0.0	0.0	263	1.0 *	0.9
20-29 years	1,860	0.9 *	0.3	442	2.2 *	1.1	412	1.2 *	0.6	886	0.6 *	0.3
30-39 years	1,856	3.5	0.5	370	5.8	1.2	335	7.6	2.3	1,045	›› 2.4	0.4
40-49 years	1,356	9.2	0.8	225	18.0	3.8	191	10.3 *	3.1	844	› 8.2	1.0
50-59 years	999	20.6	1.5	126	39.2	6.8	141	29.2	4.9	650	›› 18.0	1.8
60-69 years	1,141	36.4	1.9	156	53.0	6.7	228	43.8	6.3	639	›› 32.7	2.1
70-79 years	926	57.0	2.2	88	55.5	6.2	212	57.8	4.3	528	59.5	2.1
80 + years	640	67.9	1.9	65	61.9	6.3	181	68.1	3.8	301	69.8	2.1
Total, age adjusted	9,370	16.7	0.5	1,615	23.0	1.7	1,835	19.8	1.3	5,156	››› 15.8	0.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Blood pressure was measured during the MEC and home examinations. High blood pressure is identified by a systolic measure ≥ 140 or a diastolic measure ≥ 90.

Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-183—Percent of persons reporting diabetes: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,224	0.5 *	0.28	251	0.2 *	0.06	300	0.3 *	0.27	539	0.6 *	0.45
20-29 years	3,777	0.3 *	0.12	676	0.8 *	0.34	873	0.8 *	0.56	1,926	0.1 *	0.09
30-39 years	3,590	1.8	0.39	577	3.6	1.37	622	1.7 *	0.64	2,163	1.6	0.50
40-49 years	2,792	3.9	0.54	372	11.4	2.84	416	5.9	1.77	1,795	›› 3.2	0.60
50-59 years	2,053	8.0	0.80	218	13.6	2.47	279	11.8	2.89	1,383	› 7.3	0.92
60-69 years	2,605	12.3	0.92	305	26.1	3.66	496	› 16.2	2.74	1,539	››› 11.0	1.00
70-79 years	2,154	14.3	0.99	197	26.1	3.37	451	› 18.0	3.08	1,267	››› 11.9	0.91
80 + years	1,829	10.9	0.72	151	14.1	2.91	446	10.4	1.51	917	11.1	1.13
Total, age adjusted	20,024	5.2	0.19	2,747	10.3	0.85	3,883	››› 6.8	0.70	11,529	››› 4.6	0.23
Male												
17-19 years	584	0.1 *	0.10	99	0.4 *	0.36	150	0.7 *	0.58	260	0.0	0.00
20-29 years	1,801	0.5 *	0.22	225	0.5 *	0.37	437	1.5 *	1.13	971	0.2 *	0.18
30-39 years	1,618	1.6	0.70	189	0.8 *	0.25	276	2.1 *	1.20	1,046	1.7	0.87
40-49 years	1,324	3.3	0.68	139	14.0	5.72	211	5.4 *	2.71	878	› 2.6	0.72
50-59 years	952	9.6	1.37	81	12.8 *	4.65	131	10.3 *	4.49	667	9.6	1.57
60-69 years	1,296	11.7	1.30	129	25.4 *	9.60	236	16.4	3.04	812	11.1	1.41
70-79 years	992	13.5	1.57	81	19.6	7.06	184	16.8	3.92	631	12.7	1.61
80 + years	825	11.9	1.27	57	8.2 *	2.53	169	11.3	2.49	482	11.7	1.92
Total, age adjusted	9,392	5.2	0.22	1,000	9.3	1.81	1,794	6.7	0.93	5,747	› 4.9	0.25
Female												
17-19 years	640	0.8 *	0.55	152	0.2 *	0.21	150	0.0	0.00	279	1.3 *	0.95
20-29 years	1,976	0.2 *	0.07	451	0.9 *	0.50	436	0.1 *	0.11	955	0.0	0.00
30-39 years	1,972	2.0	0.42	388	5.2	2.19	346	1.4 *	0.66	1,117	1.5	0.53
40-49 years	1,468	4.4	0.77	233	9.7	3.06	205	6.3 *	2.29	917	3.9	0.87
50-59 years	1,101	6.6	0.91	137	14.1	3.02	148	13.2	4.04	716	›› 5.1	0.98
60-69 years	1,309	12.8	1.28	176	26.3	4.39	260	16.0	4.01	727	››› 11.0	1.29
70-79 years	1,162	14.9	1.15	116	29.3	3.46	267	› 18.4	3.50	636	››› 11.2	1.21
80 + years	1,004	10.4	0.97	94	16.0	3.73	277	10.0	1.93	435	10.7	1.87
Total, age adjusted	10,632	5.2	0.30	1,747	10.8	0.99	2,089	›› 6.9	1.02	5,782	››› 4.3	0.37

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-184—Percent of persons reporting heart attack: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,191	0.2 *	0.15	244	0.0	0.00	290	0.0	0.00	527	0.0	0.00
20-29 years	3,719	0.2 *	0.09	660	0.9 *	0.73	851	0.2 *	0.18	1,910	>0	0.01
30-39 years	3,545	0.3 *	0.15	573	0.5 *	0.22	616	1.7 *	1.13	2,130	0.1 *	0.12
40-49 years	2,757	1.6	0.37	368	2.7 *	1.22	409	5.5	2.00	1,775	1.2	0.37
50-59 years	2,024	4.7	0.60	216	10.9	2.86	273	5.4 *	1.88	1,364	› 3.7	0.65
60-69 years	2,574	8.9	0.91	300	14.3	3.59	487	14.9	3.01	1,527	8.0	1.13
70-79 years	2,135	14.4	1.04	194	12.2	4.20	444	15.9	2.66	1,259	14.3	1.11
80 + years	1,816	13.3	0.79	150	13.1	2.93	440	13.0	1.83	912	14.2	1.11
Total, age adjusted	19,761	3.7	0.19	2,705	5.3	0.88	3,810	5.5	0.58	11,404	› 3.3	0.22
Male												
17-19 years	566	0.0	0.00	95	0.0	0.00	145	0.0	0.00	254	0.0	0.00
20-29 years	1,772	0.3 *	0.18	222	2.6 *	2.17	426	0.5 *	0.37	959	>0	0.02
30-39 years	1,598	0.6 *	0.31	187	0.8 *	0.52	274	3.7 *	2.57	1,030	0.2 *	0.24
40-49 years	1,312	2.6	0.67	138	3.5 *	2.60	208	10.6	3.95	871	2.0	0.66
50-59 years	940	6.8	1.16	81	10.8 *	4.04	129	9.8 *	3.74	657	5.9	1.21
60-69 years	1,281	13.0	1.57	128	20.2	6.84	231	21.3	5.06	805	11.8	1.79
70-79 years	985	18.7	1.33	80	13.4 *	6.04	180	17.4	3.39	630	19.5	1.68
80 + years	817	14.9	1.48	56	22.0 *	5.62	165	› 8.8 *	2.32	479	17.5	1.85
Total, age adjusted	9,271	5.0	0.32	987	6.8	1.25	1,758	8.2	0.97	5,685	4.7	0.38
Female												
17-19 years	625	0.3 *	0.31	149	0.0	0.00	145	0.0	0.00	273	0.0	0.00
20-29 years	1,947	>0	0.01	438	0.1 *	0.09	425	0.0	0.00	951	>0	0.01
30-39 years	1,947	0.1 *	0.03	386	0.3 *	0.15	342	0.1 *	0.10	1,100	>0	0.02
40-49 years	1,445	0.6 *	0.26	230	2.1 *	1.13	201	0.7 *	0.74	904	0.5 *	0.30
50-59 years	1,084	2.6	0.61	135	10.9 *	3.93	144	› 1.1 *	0.49	707	› 1.6 *	0.53
60-69 years	1,293	5.4	0.84	172	11.9	3.97	256	10.0	3.28	722	4.4	0.97
70-79 years	1,150	11.2	1.19	114	11.5 *	4.51	264	15.3	3.30	629	9.7	1.14
80 + years	999	12.4	0.93	94	10.2 *	3.63	275	14.5	2.29	433	11.9	1.67
Total, age adjusted	10,490	2.5	0.16	1,718	4.6	0.94	2,052	3.1	0.43	5,719	›› 2.0	0.18

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
>0 Value to small to display.

Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-185—Mean age at first heart attack among persons reporting heart attack(s): Ages 40 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error	Sample size	Mean Age	Standard Error
Both sexes												
40-49 years	46	40.2 *	0.94	10	39.7 *	1.83	15	39.6 *	1.66	19	40.6 *	1.38
50-59 years	98	44.9	1.59	22	45.8 *	1.91	16	48.1 *	3.86	49	43.5 *	2.07
60-69 years	206	54.3	0.83	26	52.7 *	3.08	55	53.5	1.62	107	54.5	1.02
70-79 years	280	62.6	0.63	31	61.0 *	3.54	57	61.0	1.72	162	62.7	0.82
80 + years	231	71.5	1.09	14	74.5 *	3.22	51	72.1	2.03	132	70.8	1.60
Total, age adjusted	861	49.3	0.54	103	49.1	1.22	194	49.6	1.22	469	49.1	0.80
Male												
40-49 years	35	40.5 *	1.11	4	41.1 *	1.78	14	39.3 *	1.79	16	41.0 *	1.66
50-59 years	64	44.1	2.18	9	41.5 *	3.23	12	47.7 *	4.27	36	43.4 *	2.63
60-69 years	137	53.8	0.94	13	54.8 *	2.79	31	52.9 *	2.03	80	53.6	1.10
70-79 years	167	62.5	0.91	13	70.3 *	2.82	28	› 62.9 *	1.58	110	› 62.3	1.05
80 + years	124	70.4	1.00	8	78.8 *	5.20	15	69.0 *	4.24	87	69.9	1.01
Total, age adjusted	527	49.0	0.68	47	50.5	1.24	100	49.3	1.23	329	49.0	0.94
Female												
40-49 years	11	39.4 *	1.06	6	38.3 *	2.61	1	43.0 *	0.00	3	38.8 *	0.91
50-59 years	34	46.9 *	1.97	13	48.6 *	2.06	4	52.2 *	1.66	13	43.6 *	3.12
60-69 years	69	55.4	1.32	13	51.2 *	4.29	24	54.3 *	2.33	27	56.7 *	1.92
70-79 years	113	62.7	1.12	18	55.7 *	3.92	29	60.1 *	2.52	52	63.4 *	1.50
80 + years	107	72.2	1.47	6	71.4 *	2.55	36	72.8 *	2.26	45	71.7 *	2.68
Total, age adjusted	334	49.8	0.70	56	48.1	1.50	94	› 51.9	0.71	140	49.0	0.99

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Adults age 17-39 are excluded from table due to small cell sizes.

Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-186—Percent of persons reporting stroke: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,225	0.2 *	0.17	251	0.0	0.00	301	0.0	0.00	539	0.3 *	0.29
20-29 years	3,783	0.2 *	0.11	676	>0	0.04	874	0.1 *	0.07	1,931	0.3 *	0.16
30-39 years	3,594	0.3 *	0.16	578	2.3 *	1.70	623	0.0	0.00	2,165	0.2 *	0.10
40-49 years	2,794	1.2	0.37	372	1.1 *	0.46	416	1.3 *	0.69	1,796	1.1	0.41
50-59 years	2,056	1.8	0.39	219	4.6 *	1.53	279	1.8 *	0.88	1,384	1.7	0.46
60-69 years	2,607	4.3	0.57	306	13.2	3.70	496	7.2	1.83	1,540	› 3.6	0.70
70-79 years	2,153	8.6	0.77	197	9.8	2.58	451	13.2	2.32	1,266	7.9	0.94
80 + years	1,830	12.6	0.86	151	11.5 *	2.05	446	13.6	2.21	918	10.2	1.18
Total, age adjusted	20,042	2.2	0.13	2,750	3.9	0.54	3,886	2.8	0.33	11,539	››› 2.0	0.15
Male												
17-19 years	585	0.0	0.00	99	0.0	0.00	151	0.0	0.00	260	0.0	0.00
20-29 years	1,801	0.2 *	0.15	225	0.0	0.00	437	0.0	0.00	971	0.3 *	0.21
30-39 years	1,620	0.3 *	0.26	190	4.8 *	4.32	276	0.0	0.00	1,047	>0	0.04
40-49 years	1,325	1.9	0.69	139	1.5 *	0.78	211	2.0 *	1.35	878	2.0	0.79
50-59 years	953	2.5	0.76	82	4.2 *	2.46	131	3.2 *	2.04	667	2.6	0.90
60-69 years	1,297	4.5	0.73	130	14.6	5.12	235	9.8	3.57	813	› 3.6	0.79
70-79 years	991	8.8	1.18	81	12.0 *	4.59	183	12.0	3.96	631	8.3	1.42
80 + years	826	13.9	1.14	57	17.3 *	4.81	169	13.8	2.90	483	12.3	1.26
Total, age adjusted	9,398	2.6	0.22	1,003	5.0	1.11	1,793	3.4	0.61	5,750	› 2.4	0.23
Female												
17-19 years	640	0.4 *	0.35	152	0.0	0.00	150	0.0	0.00	279	0.6 *	0.61
20-29 years	1,982	0.2 *	0.16	451	0.1 *	0.06	437	0.1 *	0.14	960	0.2 *	0.24
30-39 years	1,974	0.3 *	0.17	388	0.9 *	0.87	347	0.0	0.00	1,118	0.2 *	0.19
40-49 years	1,469	0.6 *	0.27	233	0.9 *	0.51	205	0.7 *	0.45	918	0.2 *	0.16
50-59 years	1,103	1.0 *	0.30	137	4.8 *	1.86	148	› 0.3 *	0.34	717	› 0.8 *	0.36
60-69 years	1,310	4.2	0.73	176	12.6	4.79	261	5.2	1.68	727	3.6	0.94
70-79 years	1,162	8.4	1.04	116	8.7 *	2.44	268	13.7	3.58	635	7.6	1.16
80 + years	1,004	11.9	1.16	94	9.6 *	2.91	277	13.5	2.70	435	8.7	1.67
Total, age adjusted	10,644	2.0	0.15	1,747	3.4	0.54	2,093	2.4	0.33	5,789	›› 1.6	0.20

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
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Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-187—Percent of persons reporting emphysema or congestive heart failure: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,225	0.2 *	0.2	251	0.4 *	0.3	301	0.1 *	0.1	539	0.3 *	0.3
20-29 years	3,783	0.3 *	0.1	676	0.3 *	0.1	874	0.5 *	0.4	1,931	0.2 *	0.1
30-39 years	3,594	0.7	0.2	578	0.9 *	0.2	623	3.4	1.7	2,165	0.3 *	0.1
40-49 years	2,794	1.9	0.4	372	6.6	3.4	416	2.9 *	1.1	1,796	1.5	0.3
50-59 years	2,058	5.4	0.8	219	19.3	5.0	279	9.8	3.0	1,386	›››3.7	0.7
60-69 years	2,608	10.3	0.8	306	23.7	4.1	497	› 11.6	2.5	1,540	›››9.0	0.8
70-79 years	2,156	14.9	1.0	197	14.2	3.7	452	16.4	2.3	1,268	14.2	1.3
80 + years	1,832	13.7	0.8	151	19.5	4.0	447	14.9	2.2	918	13.4	1.3
Total, age adjusted	20,050	4.1	0.2	2,750	8.6	0.9	3,889	› 5.8	0.8	11,543	›››3.5	0.2
Male												
17-19 years	585	>0	>0	99	0.7 *	0.7	151	0.0	0.0	260	0.0	0.0
20-29 years	1,801	0.4 *	0.2	225	0.5 *	0.4	437	0.8 *	0.7	971	0.4 *	0.2
30-39 years	1,620	0.8 *	0.4	190	1.0 *	0.6	276	4.4 *	2.7	1,047	0.4 *	0.3
40-49 years	1,325	2.7	0.6	139	4.0 *	2.6	211	5.5 *	2.3	878	2.5	0.6
50-59 years	953	6.7	1.3	82	30.8 *	10.2	131	› 9.1 *	3.4	667	›› 4.8	1.2
60-69 years	1,298	12.1	1.1	130	23.4	8.0	236	14.2	3.7	813	11.8	1.3
70-79 years	993	18.9	1.9	81	14.6 *	4.2	184	22.7	4.1	632	17.9	2.4
80 + years	826	16.6	1.6	57	37.6 *	7.7	169	›› 16.8	2.8	483	› 15.5	2.1
Total, age adjusted	9,401	5.1	0.3	1,003	10.7	1.7	1,795	7.3	1.1	5,751	›››4.6	0.3
Female												
17-19 years	640	0.4 *	0.3	152	0.3 *	0.3	150	0.2 *	0.2	279	0.6 *	0.6
20-29 years	1,982	0.1 *	>0	451	0.2 *	0.1	437	0.3 *	0.2	960	>0	>0
30-39 years	1,974	0.5 *	0.2	388	0.8 *	0.3	347	2.7 *	2.1	1,118	0.2 *	0.1
40-49 years	1,469	1.1	0.5	233	8.2	5.7	205	0.5 *	0.3	918	0.6 *	0.2
50-59 years	1,105	4.2	0.7	137	12.2 *	4.2	148	10.4 *	4.6	719	› 2.6	0.5
60-69 years	1,310	8.7	1.0	176	23.8	5.1	261	› 9.6	3.3	727	›› 6.3	1.2
70-79 years	1,163	12.0	1.3	116	14.0 *	5.1	268	13.8	2.6	636	11.0	1.4
80 + years	1,006	12.1	1.0	94	13.5 *	4.1	278	14.2	2.5	435	11.9	1.6
Total, age adjusted	10,649	3.3	0.2	1,747	7.6	1.1	2,094	› 4.8	1.0	5,792	›››2.5	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
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Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-188—Percent of persons reporting cancer other than skin cancer: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
17-19 years	1,225	0.0	0.0	251	0.0	0.0	301	0.0	0.0	539	0.0	0.0
20-29 years	3,783	1.2	0.3	676	1.9 *	1.4	874	0.1 *	0.1	1,931	1.4	0.5
30-39 years	3,594	1.5	0.3	578	2.3 *	1.2	623	5.0	2.0	2,165	1.0	0.3
40-49 years	2,794	3.5	0.7	372	5.8 *	2.5	416	1.8 *	0.8	1,796	3.6	0.8
50-59 years	2,058	3.8	0.6	219	7.2 *	3.2	279	3.9 *	1.8	1,386	3.8	0.5
60-69 years	2,608	7.5	0.8	306	3.4 *	1.5	497	6.7	2.6	1,540	›› 8.0	0.9
70-79 years	2,153	10.3	0.9	197	4.7 *	2.3	452	› 12.4	1.9	1,265	› 10.3	1.1
80 + years	1,831	12.4	0.7	151	11.4 *	3.3	447	9.4	1.5	917	14.4	1.2
Total, age adjusted	20,046	3.8	0.2	2,750	4.2	0.7	3,889	4.0	0.6	11,539	3.9	0.2
Male												
17-19 years	585	0.0	0.0	99	0.0 *	0.0	151	0.0	0.0	260	0.0	0.0
20-29 years	1,801	0.8 *	0.3	225	4.1 *	4.0	437	0.1 *	0.1	971	0.7 *	0.4
30-39 years	1,620	0.2 *	0.2	190	0.0	0.0	276	2.4 *	2.4	1,047	>0	>0
40-49 years	1,325	1.6	0.5	139	5.4 *	3.8	211	1.3 *	1.2	878	1.5 *	0.6
50-59 years	953	2.0	0.5	82	1.8 *	1.1	131	4.3 *	3.6	667	1.9 *	0.5
60-69 years	1,298	5.3	0.8	130	2.9 *	1.5	236	1.1 *	0.8	813	5.8	1.0
70-79 years	991	9.2	1.1	81	6.4 *	3.0	184	7.0 *	2.0	630	9.9	1.5
80 + years	826	16.1	1.8	57	24.0 *	7.4	169	9.6 *	1.6	483	18.8	2.6
Total, age adjusted	9,399	2.7	0.2	1,003	3.9	1.1	1,795	2.5	0.8	5,749	2.9	0.2
Female												
17-19 years	640	0.0	0.0	152	0.0	0.0	150	0.0	0.0	279	0.0	0.0
20-29 years	1,982	1.5	0.6	451	0.8 *	0.6	437	0.1 *	0.1	960	2.0	0.9
30-39 years	1,974	2.7	0.6	388	3.7 *	1.8	347	6.9	3.2	1,118	2.1	0.6
40-49 years	1,469	5.4	1.2	233	6.2 *	3.1	205	2.2 *	1.2	918	5.7	1.4
50-59 years	1,105	5.5	0.9	137	10.6 *	5.2	148	3.6 *	1.5	719	5.6	1.0
60-69 years	1,310	9.4	1.3	176	3.6 *	2.0	261	11.0	4.5	727	›› 10.0	1.4
70-79 years	1,162	11.1	1.1	116	3.8 *	2.9	268	›› 14.7	2.9	635	› 10.7	1.3
80 + years	1,005	10.4	1.0	94	7.2 *	3.3	278	9.4	2.0	434	11.3	1.7
Total, age adjusted	10,647	4.9	0.3	1,747	4.6	1.0	2,094	5.0	0.9	5,790	5.0	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
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Source: NHANES-III, 1988-94: Adult interview file. Total includes persons with missing food stamp participation or income.

Table D-189—Mean 10-year risk for coronary heart disease: Ages 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
20-29 years	3,212	1.2	>0	608	1.2	>0	740	1.2	0.1	1,638	1.1	>0
30-39 years	3,015	2.1	0.1	499	2.1	0.2	536	2.5	0.5	1,818	2.1	0.1
40-49 years	2,356	4.2	0.2	322	5.0	0.7	354	4.8	0.4	1,521	4.1	0.2
50-59 years	1,734	7.9	0.2	177	9.3	1.4	246	8.0	0.7	1,180	7.8	0.2
60-69 years	2,127	10.3	0.2	248	9.1	0.9	401	› 11.3	0.6	1,285	10.4	0.2
70-79 years	1,614	14.8	0.2	137	14.2	1.1	332	14.4	0.6	995	15.0	0.2
Total, age adjusted	14,058	5.3	0.1	1,991	5.6	0.3	2,609	5.6	0.2	8,437	5.3	0.1
Male												
20-29 years	1,501	1.3	>0	195	1.6	0.1	369	1.4	0.2	809	›› 1.2	>0
30-39 years	1,326	3.1	0.2	164	3.5	0.6	234	4.0	1.0	861	3.0	0.2
40-49 years	1,117	6.6	0.3	119	7.4	1.0	178	7.2	0.8	745	6.5	0.4
50-59 years	800	12.8	0.3	64	18.6 *	2.1	111	›› 12.6	1.1	567	›› 12.6	0.3
60-69 years	1,081	16.3	0.3	106	16.5	0.9	198	17.4	1.0	688	16.3	0.3
70-79 years	758	19.5	0.2	61	20.3 *	1.2	137	19.9	0.7	498	19.4	0.3
Total, age adjusted	6,583	8.0	0.1	709	9.3	0.4	1,227	8.4	0.4	4,168	›› 7.9	0.1
Female												
20-29 years	1,711	1.0	>0	413	1.1	>0	371	1.0	>0	829	1.0	>0
30-39 years	1,689	1.2	>0	335	1.3	>0	302	1.2	0.1	957	1.2	>0
40-49 years	1,239	1.9	0.1	203	3.5	1.0	176	2.4	0.3	776	1.7	0.1
50-59 years	934	3.1	0.2	113	4.3	0.6	135	3.7	0.4	613	› 2.9	0.2
60-69 years	1,046	5.2	0.2	142	6.2	0.7	203	6.3	0.6	597	4.9	0.2
70-79 years	856	11.4	0.2	76	10.7 *	1.0	195	12.1	0.6	497	11.3	0.3
Total, age adjusted	7,475	3.0	0.1	1,282	3.6	0.3	1,382	3.3	0.1	4,269	› 2.8	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 10-year coronary heart disease risk is determined by 5 factors: age, total cholesterol, cigarette smoking, HDL level, and systolic blood pressure. Risk associated with each factor is specific to age and gender. Source: NIH (2001b), National Cholesterol Education Program, *ATP III Guidelines At-A-Glance.*
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Source: NHANES-III, 1988-94: Examination file.

Table D-190—Percent of persons with 10-year risk for coronary heart disease greater than 10 percent: Ages 20 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
20-29 years	3,212	0.1 *	0.1	608	0.0	0.0	740	0.5 *	0.6	1,638	0.0	0.0
30-39 years	3,015	3.7	0.6	499	2.7 *	1.5	536	5.2	2.2	1,818	3.7	0.8
40-49 years	2,356	9.4	0.8	322	11.5	2.3	354	12.8	2.9	1,521	9.1	1.0
50-59 years	1,734	26.4	1.2	177	33.8	6.4	246	25.2	4.6	1,180	25.9	1.3
60-69 years	2,127	43.5	1.1	248	36.4	6.2	401	48.0	5.1	1,285	43.8	1.3
70-79 years	1,614	70.8	1.1	137	64.0	6.6	332	70.3	2.8	995	72.5	1.4
Total, age adjusted	14,058	18.0	0.4	1,991	18.1	1.5	2,609	19.5	1.3	8,437	18.0	0.4
Male												
20-29 years	1,501	0.2 *	0.2	195	0.0	0.0	369	1.1 *	1.1	809	0.0	0.0
30-39 years	1,326	7.3	1.2	164	6.9 *	3.9	234	11.4 *	5.1	861	7.1	1.4
40-49 years	1,117	16.7	1.6	119	16.5 *	5.2	178	20.6	4.7	745	16.6	1.9
50-59 years	800	48.8	1.8	64	76.4 *	6.8	111	›› 44.4	8.8	567	››› 47.7	1.9
60-69 years	1,081	78.9	1.8	106	85.9 *	7.4	198	80.2	6.5	688	77.8	2.2
70-79 years	758	93.5	1.2	61	93.5 *	4.4	137	95.7 *	2.0	498	93.4	1.4
Total, age adjusted	6,583	29.9	0.5	709	35.0	1.9	1,227	31.5	1.9	4,168	›› 29.5	0.7
Female												
20-29 years	1,711	0.0	0.0	413	0.0	0.0	371	0.0	0.0	829	0.0	0.0
30-39 years	1,689	0.2 *	0.1	335	0.1 *	0.1	302	0.3 *	0.2	957	0.1 *	0.1
40-49 years	1,239	2.4	0.7	203	8.4 *	4.6	176	4.5 *	2.8	776	1.6 *	0.6
50-59 years	934	5.1	1.1	113	11.0 *	5.1	135	7.2 *	2.3	613	4.2	1.0
60-69 years	1,046	13.2	1.4	142	17.0	5.0	203	21.6	6.9	597	11.8	1.5
70-79 years	856	54.4	2.0	76	47.2 *	8.5	195	59.4	3.7	497	54.5	2.5
Total, age adjusted	7,475	7.5	0.4	1,282	9.6	1.7	1,382	9.7	1.0	4,269	7.0	0.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 10-year coronary heart disease risk is determined by 5 factors: age, total cholesterol, cigarette smoking, HDL level, and systolic blood pressure. Risk associated with each factor is specific to age and gender. Source: NIH (2001b), National Cholesterol Education Program, *ATP III Guidelines At-A-Glance.*

Source: NHANES-III, 1988-94: Examination file.

Table D-191—Percent of females ever pregnant: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
17-19 years	579	28.0	2.6	146	59.2	6.2	131	›› 36.2	6.7	254	››› 18.0	3.2
20-29 years	1,824	64.5	2.3	435	95.6	1.5	400	››› 62.4	5.3	875	››› 58.4	3.1
30-39 years	1,799	84.8	1.7	362	98.8 *	0.6	321	› 93.4 *	2.5	1,021	››› 81.3	2.1
40-49 years	1,321	90.6	1.5	219	95.0 *	3.4	184	98.9 *	0.5	829	89.3	1.7
50-59 years	981	92.9	1.1	123	88.6 *	4.9	140	86.7 *	6.0	641	93.5	1.3
60-69 years	1,107	91.6	1.1	149	94.7 *	1.9	220	86.7	4.3	625	92.0	1.2
70-79 years	900	87.6	1.2	80	94.6 *	3.2	208	89.0 *	2.3	519	› 86.2	1.6
80 + years	611	81.4	1.9	61	91.0 *	4.0	168	85.1	4.5	292	› 78.7	2.3
Total, age adjusted	9,122	81.1	0.7	1,575	92.6	1.2	1,772	››› 83.5	1.6	5,056	››› 78.3	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-192—Mean number pregnancies among females ever pregnant: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Female												
17-19 years	192	1.4	0.07	82	1.5	0.12	46	1.4 *	0.13	50	1.5 *	0.16
20-29 years	1,298	2.1	0.05	406	2.8	0.12	281	›››2.0	0.10	534	›››1.9	0.06
30-39 years	1,625	2.9	0.06	355	3.8	0.16	300	3.4	0.17	881	›››2.7	0.07
40-49 years	1,228	3.3	0.10	212	5.2	0.58	177	› 3.7	0.19	756	›››3.1	0.08
50-59 years	919	3.8	0.10	116	6.0	0.34	128	›› 4.6	0.29	599	›››3.6	0.11
60-69 years	1,013	4.1	0.10	136	6.0	0.54	199	4.8	0.37	573	›››3.8	0.13
70-79 years	794	3.8	0.09	75	5.6 *	0.55	184	4.4	0.21	452	›››3.4	0.09
80 + years	494	3.4	0.15	55	4.3 *	0.58	137	3.9	0.24	230	› 3.0	0.17
Total, age adjusted	7,563	3.1	0.03	1,437	4.4	0.15	1,452	›››3.5	0.09	4,075	›››2.9	0.03

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-193—Mean number total live births among females ever pregnant: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Female												
17-19 years	192	0.7	0.06	82	1.0	0.10	46	› 0.6 *	0.13	50	›››0.5 *	0.11
20-29 years	1,298	1.4	0.05	406	2.1	0.09	281	›››1.4	0.10	534	›››1.1	0.07
30-39 years	1,625	2.1	0.05	355	2.8	0.12	300	2.6	0.14	881	›››1.8	0.05
40-49 years	1,228	2.5	0.07	212	3.7	0.31	177	›› 2.8	0.20	756	›››2.3	0.06
50-59 years	919	3.2	0.07	116	4.9	0.34	128	› 4.1	0.25	599	›››3.0	0.08
60-69 years	1,013	3.3	0.07	136	4.3	0.35	199	4.1	0.29	573	›››3.1	0.10
70-79 years	794	3.2	0.09	74	4.6	0.51	185	3.8	0.18	452	›››2.8	0.08
80 + years	495	2.9	0.12	55	3.8 *	0.54	137	3.3	0.25	231	› 2.5	0.13
Total, age adjusted	7,564	2.4	0.03	1,436	3.4	0.10	1,453	›››2.8	0.08	4,076	›››2.1	0.03

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-194—Mean age of females at time of first live birth: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Female												
17-19 years	124	17.1	0.2	68	16.7 *	0.3	27	›› 17.7 *	0.2	21	17.4 *	0.4
20-29 years	1,112	20.4	0.2	391	19.2	0.3	251	20.0	0.4	407	››› 21.2	0.2
30-39 years	1,533	22.7	0.2	348	19.8	0.3	292	› 20.8	0.4	808	››› 23.5	0.3
40-49 years	1,186	22.3	0.3	205	19.8	0.4	171	› 21.6	0.8	730	››› 22.7	0.3
50-59 years	888	21.8	0.2	111	19.2	0.5	125	›› 21.5	0.6	577	››› 22.1	0.2
60-69 years	975	22.7	0.2	133	21.3	0.5	189	22.2	0.8	550	›› 23.0	0.2
70-79 years	763	23.8	0.2	72	21.0 *	0.9	180	22.4	0.5	432	››› 24.3	0.3
80 + years	465	24.0	0.3	49	22.7 *	1.1	130	22.5	0.5	220	25.0	0.4
Total, age adjusted	7,046	21.9	0.1	1,377	19.8	0.2	1,365	››› 21.0	0.2	3,745	››› 22.4	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-195—Percent of females who were teenagers at time of first live birth: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
17-19 years	124	100.0 *	0.0	68	100.0	0.0	27	100.0	0.0	21	100.0	0.0
20-29 years	1,112	44.8	3.0	391	61.7	5.4	251	52.5	5.7	407	›››34.0	3.6
30-39 years	1,533	30.3	2.2	348	51.2	4.6	292	46.2	5.4	808	›››24.2	2.4
40-49 years	1,186	32.9	2.8	205	57.9	5.0	171	48.6	6.6	730	›››28.6	3.0
50-59 years	888	31.4	2.3	111	71.2	6.5	125	›› 39.5	7.2	577	›››27.7	2.7
60-69 years	975	24.1	2.0	133	44.1	6.7	189	36.8	6.0	550	›››21.0	2.2
70-79 years	763	21.4	1.6	72	49.7 *	9.2	180	34.7	3.9	432	›››14.8	2.1
80 + years	465	21.9	2.5	49	39.9 *	8.8	130	28.2	4.4	220	› 15.0	3.0
Total, age adjusted	7,046	35.9	1.1	1,377	58.9	2.5	1,365	›››47.4	2.5	3,745	›››30.2	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-196—Percent of females older than 35 years at time of first live birth: Ages 17 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Female												
17-19 years	124	0.0	0.0	68	0.0	0.0	27	0.0 *	0.0	21	0.0 *	0.0
20-29 years	1,112	0.0	0.0	391	0.0	0.0	251	0.0	0.0	407	0.0	0.0
30-39 years	1,533	0.4 *	0.2	348	0.0	0.0	292	0.1 *	0.1	808	0.5 *	0.3
40-49 years	1,186	1.7	0.7	205	0.6 *	0.4	171	0.2 *	0.2	730	2.1	0.9
50-59 years	888	0.8 *	0.2	111	1.1 *	0.7	125	1.5 *	1.2	577	0.8 *	0.2
60-69 years	975	1.1 *	0.5	133	2.0 *	1.8	189	0.7 *	0.4	550	1.2 *	0.6
70-79 years	763	2.1	0.5	72	1.3 *	1.3	180	2.5 *	1.5	432	1.6 *	0.6
80 + years	465	4.0	1.1	49	7.0 *	4.2	130	2.4 *	1.3	220	4.4 *	1.7
Total, age adjusted	7,046	1.0	0.2	1,377	0.9	0.4	1,365	0.6	0.2	3,745	1.1	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-197—Mean age of mother at birth: Infants and children up to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Age of child												
Under 1 year	2,107	26.5	0.19	502	23.8	0.26	340	›››25.6	0.42	1,131	›››28.0	0.24
1-2 years	2,675	26.5	0.16	847	24.0	0.26	504	› 24.9	0.35	1,130	›››27.9	0.19
3-5 years	3,438	26.4	0.23	1,072	24.4	0.33	710	25.2	0.43	1,457	›››27.5	0.31
6-11 years	3,395	25.5	0.19	976	23.3	0.34	691	› 24.4	0.42	1,504	›››26.3	0.22
Total, age adjusted	11,615	26.0	0.14	3,397	23.7	0.22	2,245	›› 24.7	0.29	5,222	›››27.0	0.17
Male												
Under 1 year	1,067	26.6	0.26	241	23.8	0.39	163	›› 25.7	0.68	589	›››28.0	0.30
1-2 years	1,339	26.4	0.20	456	23.8	0.44	235	› 25.1	0.51	553	›››27.8	0.25
3-5 years	1,663	26.3	0.27	519	24.4	0.37	338	24.8	0.71	705	›››27.4	0.34
6-11 years	1,725	25.7	0.21	477	23.8	0.41	342	24.3	0.48	787	›››26.3	0.26
Total, age adjusted	5,794	26.0	0.15	1,693	23.9	0.29	1,078	24.7	0.30	2,634	›››27.0	0.18
Female												
Under 1 year	1,040	26.4	0.25	261	23.7	0.40	177	›› 25.4	0.46	542	›››28.0	0.30
1-2 years	1,336	26.6	0.24	391	24.2	0.36	269	24.8	0.47	577	›››27.9	0.25
3-5 years	1,775	26.6	0.26	553	24.4	0.37	372	25.6	0.55	752	›››27.6	0.37
6-11 years	1,670	25.3	0.23	499	22.9	0.49	349	› 24.4	0.54	717	›››26.2	0.24
Total, age adjusted	5,821	25.9	0.17	1,704	23.6	0.27	1,167	›› 24.8	0.38	2,588	›››27.0	0.19

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-198—Percent of infants and children born to adolescent mothers: Ages 2 months to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,107	12.5	0.8	502	26.4	2.0	340	›› 15.9	2.5	1,131	››› 5.9	0.9
1-2 years	2,675	11.8	0.7	847	22.7	2.4	504	17.7	3.1	1,130	››› 6.0	0.7
3-5 years	3,438	12.5	1.1	1,072	22.8	2.4	710	18.2	2.9	1,457	››› 7.0	1.0
6-11 years	3,395	14.2	1.3	976	29.1	2.7	691	›› 16.6	3.6	1,504	››› 9.8	1.2
Total, age adjusted	11,615	13.3	0.8	3,397	26.3	1.4	2,245	››› 17.1	2.5	5,222	››› 8.2	0.7
Male												
Under 1 year	1,067	12.1	1.0	241	25.6	2.9	163	› 15.7 *	3.3	589	››› 6.2	1.0
1-2 years	1,339	12.6	1.0	456	24.3	3.5	235	18.8	4.2	553	››› 6.1	0.9
3-5 years	1,663	13.3	1.5	519	22.8	3.3	338	21.2	4.9	705	››› 8.2	1.5
6-11 years	1,725	13.2	1.1	477	27.8	2.8	342	›› 16.0	3.6	787	››› 9.3	1.2
Total, age adjusted	5,794	13.0	0.8	1,693	25.8	1.8	1,078	› 17.7	2.9	2,634	››› 8.2	0.8
Female												
Under 1 year	1,040	12.8	1.2	261	27.2	3.0	177	› 16.0 *	3.1	542	››› 5.6	1.4
1-2 years	1,336	11.1	1.0	391	20.6	2.8	269	16.7	4.3	577	››› 5.9	1.1
3-5 years	1,775	11.7	1.1	553	22.8	3.1	372	› 14.8	2.7	752	››› 5.7	1.0
6-11 years	1,670	15.2	1.7	499	30.2	3.8	349	›› 17.2	4.5	717	››› 10.3	1.6
Total, age adjusted	5,821	13.5	1.0	1,704	26.6	1.9	1,167	››› 16.4	2.8	2,588	››› 8.1	0.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-199—Percent of infants and children born to mothers over age 35: Ages 2 months to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,107	7.2	0.7	502	3.9	0.9	340	5.6 *	1.3	1,131	›››9.4	1.1
1-2 years	2,675	5.7	0.6	847	4.8	1.1	504	2.1 *	0.9	1,130	7.1	0.9
3-5 years	3,438	6.7	0.9	1,072	3.0	0.6	710	5.2	1.8	1,457	›››8.2	1.4
6-11 years	3,395	3.8	0.6	976	3.7	1.1	691	2.6 *	0.8	1,504	4.1	0.9
Total, age adjusted	11,615	5.1	0.4	3,397	3.7	0.7	2,245	3.4	0.7	5,222	› 6.0	0.6
Male												
Under 1 year	1,067	7.5	1.1	241	4.5 *	1.6	163	5.7 *	2.1	589	› 9.4	1.3
1-2 years	1,339	7.0	0.9	456	4.9	1.3	235	›› 1.0 *	0.5	553	› 9.7	1.3
3-5 years	1,663	6.3	0.9	519	3.2 *	0.9	338	3.6 *	1.5	705	›› 8.1	1.5
6-11 years	1,725	4.1	0.9	477	5.8	1.9	342	3.4 *	1.3	787	3.9	1.2
Total, age adjusted	5,794	5.4	0.5	1,693	4.9	1.2	1,078	3.2	0.8	2,634	6.3	0.8
Female												
Under 1 year	1,040	6.9	0.7	261	3.4 *	1.1	177	5.4 *	1.6	542	›››9.4	1.3
1-2 years	1,336	4.3	0.8	391	4.7 *	1.6	269	3.0 *	1.5	577	4.4	1.1
3-5 years	1,775	7.2	1.2	553	2.8 *	0.7	372	7.0	3.3	752	›› 8.2	1.9
6-11 years	1,670	3.4	0.7	499	1.7 *	0.7	349	2.0 *	0.8	717	4.2	1.0
Total, age adjusted	5,821	4.7	0.5	1,704	2.6	0.5	1,167	3.6	0.9	2,588	›› 5.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-200—Percent of infants and children born to mothers who smoked during pregnancy: Ages 2 months to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,103	22.9	1.3	502	34.8	2.8	340	›› 23.0	3.5	1,127	››› 18.1	1.9
1-2 years	2,671	22.3	1.3	848	33.7	2.8	507	› 24.4	3.4	1,122	››› 17.2	1.4
3-5 years	3,444	23.1	1.2	1,081	33.6	3.0	711	› 22.3	3.1	1,452	››› 19.4	1.4
6-11 years	3,401	24.1	1.6	980	29.1	3.4	692	23.1	3.0	1,504	23.3	2.0
Total, age adjusted	11,619	23.4	0.9	3,411	31.4	2.2	2,250	›› 23.1	2.1	5,205	››› 21.0	1.1
Male												
Under 1 year	1,065	21.9	1.8	241	34.7	3.0	163	› 22.2	4.6	587	››› 17.3	2.2
1-2 years	1,339	22.4	1.3	456	35.8	3.7	237	› 22.8	4.2	551	››› 16.4	1.7
3-5 years	1,665	21.6	1.7	521	32.3	2.8	340	› 22.1	4.1	702	››› 17.8	2.0
6-11 years	1,733	25.6	2.2	478	32.1	4.0	343	22.7	4.3	793	25.6	2.8
Total, age adjusted	5,802	23.8	1.2	1,696	33.0	2.5	1,083	›› 22.5	2.2	2,633	››› 21.5	1.5
Female												
Under 1 year	1,038	23.9	1.6	261	34.9	4.3	177	› 23.9	3.9	540	›› 18.9	2.1
1-2 years	1,332	22.2	1.9	392	31.0	4.1	270	25.8	5.1	571	›› 18.0	1.9
3-5 years	1,779	24.7	1.8	560	34.8	4.0	371	› 22.7	3.7	750	›› 21.1	2.5
6-11 years	1,668	22.4	2.0	502	26.4	3.9	349	23.4	4.7	711	20.8	2.4
Total, age adjusted	5,817	23.1	1.2	1,715	29.9	2.4	1,167	23.7	3.3	2,572	›› 20.3	1.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-201—Mean birthweight: Ages 2 months to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Age of child												
Under 1 year	2,075	3,380	15.0	491	3,240	28.4	331	3,337	36.1	1,122	›››3,443	18.5
1-2 years	2,588	3,378	18.0	819	3,228	26.8	472	3,232	53.7	1,118	›››3,462	20.8
3-5 years	3,248	3,321	23.0	1,016	3,196	35.2	639	3,310	57.2	1,415	›››3,369	30.4
6-11 years	3,115	3,383	20.8	901	3,146	43.0	599	›››3,335	48.4	1,430	›››3,453	19.2
Total, age adjusted	11,026	3,367	14.3	3,227	3,179	24.7	2,041	›››3,312	27.1	5,085	›››3,433	14.5
Male												
Under 1 year	1,051	3,456	19.0	236	3,358	46.1	157	3,339	57.4	585	›› 3,519	23.8
1-2 years	1,298	3,439	19.2	436	3,255	35.9	224	3,366	47.7	548	›››3,527	24.2
3-5 years	1,570	3,387	32.3	486	3,236	49.9	308	3,304	85.8	684	›››3,447	35.4
6-11 years	1,599	3,440	22.2	444	3,252	47.5	297	3,384	85.6	751	›››3,490	23.4
Total, age adjusted	5,518	3,428	16.7	1,602	3,257	28.8	986	› 3,358	47.5	2,568	›››3,488	17.5
Female												
Under 1 year	1,024	3,298	22.7	255	3,131	36.4	174	›› 3,335	45.5	537	›››3,357	32.9
1-2 years	1,290	3,314	28.3	383	3,196	37.8	248	3,116	82.9	570	›››3,395	32.9
3-5 years	1,678	3,254	21.2	530	3,160	59.9	331	3,316	60.0	731	3,286	34.9
6-11 years	1,516	3,322	30.8	457	3,049	60.6	302	›››3,294	49.3	679	›››3,411	35.2
Total, age adjusted	5,508	3,302	18.0	1,625	3,107	31.9	1,055	›››3,274	33.2	2,517	›››3,373	21.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-202—Percent of infants and children born low birthweight: Ages 2 months to 11 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,085	6.8	0.7	493	10.7	1.6	335	8.6	2.0	1,126	›››4.8	0.7
1-2 years	2,625	6.6	0.7	833	9.6	1.4	484	9.7	2.6	1,123	›› 5.0	0.7
3-5 years	3,342	9.6	0.7	1,047	13.8	1.7	671	10.7	2.0	1,440	›› 7.9	1.1
6-11 years	3,272	6.4	0.6	942	13.1	2.2	640	› 6.5	1.5	1,485	›››4.3	0.6
Total, age adjusted	11,324	7.2	0.4	3,315	12.5	1.3	2,130	› 8.2	1.1	5,174	›››5.3	0.4
Male												
Under 1 year	1,058	5.3	0.8	237	6.6 *	2.0	160	8.0 *	2.5	588	4.4	0.9
1-2 years	1,315	5.7	0.8	445	10.4	2.0	228	5.3 *	1.7	550	›› 4.4	1.0
3-5 years	1,623	8.5	1.0	503	11.8	2.9	326	12.6	3.0	699	6.8	1.3
6-11 years	1,670	6.4	0.8	460	11.4	2.4	317	6.7 *	2.3	779	›› 5.1	0.8
Total, age adjusted	5,666	6.7	0.6	1,645	10.9	1.4	1,031	8.0	1.5	2,616	›››5.4	0.6
Female												
Under 1 year	1,027	8.5	1.1	256	14.5	2.5	175	9.3 *	2.9	538	›› 5.4	1.2
1-2 years	1,310	7.5	1.1	388	8.6	1.9	256	13.5	4.4	573	5.6	1.2
3-5 years	1,719	10.7	1.1	544	15.8	3.0	345	8.6	2.3	741	9.1	1.6
6-11 years	1,602	6.3	0.8	482	14.7	3.3	323	› 6.4 *	1.8	706	›››3.4	0.8
Total, age adjusted	5,658	7.7	0.6	1,670	13.9	2.0	1,099	› 8.3	1.3	2,558	›››5.3	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Low birthweight is less than 2500 grams, or 5.5 pounds

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-203—Percent of infants and children born very low birthweight: Ages 2 months to 11 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,075	0.8 *	0.2	491	1.4 *	0.5	331	›› 0.3 *	0.3	1,122	0.6 *	0.4
1-2 years	2,588	1.0	0.3	819	0.6 *	0.3	472	1.3 *	0.7	1,118	1.1 *	0.4
3-5 years	3,248	1.6	0.3	1,016	1.3 *	0.5	639	2.7 *	0.7	1,415	1.2 *	0.5
6-11 years	3,115	1.2	0.4	901	3.5	1.5	599	1.7 *	1.0	1,430	› 0.4 *	0.2
Total, age adjusted	11,026	1.2	0.2	3,227	2.3	0.9	2,041	1.7	0.6	5,085	0.7	0.2
Male												
Under 1 year	1,051	0.5 *	0.2	236	1.5 *	0.9	157	0.0	0.0	585	0.3 *	0.2
1-2 years	1,298	0.4 *	0.1	436	0.9 *	0.4	224	› 0.0	0.0	548	0.3 *	0.2
3-5 years	1,570	1.3 *	0.4	486	0.3 *	0.2	308	› 3.1 *	1.2	684	1.1 *	0.6
6-11 years	1,599	0.8 *	0.3	444	1.6 *	0.6	297	2.6 *	2.2	751	› 0.2 *	0.2
Total, age adjusted	5,518	0.8	0.2	1,602	1.2 *	0.3	986	2.1	1.2	2,568	0.5 *	0.2
Female												
Under 1 year	1,024	1.0 *	0.4	255	1.2 *	0.8	174	0.6 *	0.6	537	0.9 *	0.8
1-2 years	1,290	1.8	0.5	383	0.2 *	0.2	248	2.4 *	1.4	570	› 2.0 *	0.8
3-5 years	1,678	1.8	0.4	530	2.2 *	1.0	331	2.2 *	0.9	731	1.2 *	0.6
6-11 years	1,516	1.6	0.6	457	5.2 *	2.9	302	0.9 *	0.6	679	0.6 *	0.4
Total, age adjusted	5,508	1.6	0.4	1,625	3.4	1.6	1,055	1.4 *	0.4	2,517	1.0	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Very low birthweight is less than 1500 grams, or 3.3 pounds

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-204—Percent of infants and children receiving neonatal intensive care (NICU): Ages 2 months to 11 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Age of child												
Under 1 year	2,106	11.3	0.8	502	13.4	1.7	340	14.8	2.4	1,130	9.8	1.0
1-2 years	2,683	11.2	0.8	851	11.0	1.5	508	13.2	2.6	1,130	10.9	1.0
3-5 years	3,457	11.2	1.5	1,082	11.9	1.5	715	13.4	2.5	1,461	10.7	2.1
6-11 years	3,448	11.4	1.0	989	16.4	2.3	701	10.3	1.8	1,531	› 10.5	1.3
Total, age adjusted	11,694	11.3	0.8	3,424	14.2	1.5	2,264	11.9	1.3	5,252	› 10.6	1.0
Male												
Under 1 year	1,066	11.0	1.1	241	14.7	2.2	163	14.4 *	3.4	588	› 9.0	1.5
1-2 years	1,343	11.4	1.1	457	13.0	2.8	238	7.6 *	2.2	553	11.6	1.2
3-5 years	1,671	12.0	1.6	522	13.9	3.3	341	15.6	3.7	707	10.9	2.0
6-11 years	1,756	13.1	1.5	482	12.0	2.9	349	13.7	2.8	805	13.5	2.1
Total, age adjusted	5,836	12.4	1.0	1,702	12.9	2.2	1,091	13.2	2.0	2,653	12.2	1.3
Female												
Under 1 year	1,040	11.7	1.4	261	12.1	3.2	177	15.2	3.5	542	10.6	1.8
1-2 years	1,340	10.9	1.3	394	8.4	2.0	270	18.0	4.6	577	10.1	1.7
3-5 years	1,786	10.4	2.0	560	9.9	2.5	374	10.9	2.6	754	10.4	2.9
6-11 years	1,692	9.8	1.1	507	20.2	4.1	352	›› 7.3	1.8	726	›› 7.1	1.4
Total, age adjusted	5,858	10.3	0.8	1,722	15.1	2.5	1,173	10.5	1.4	2,599	› 8.7	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-205—Percent of infants and children with any hospital stays since birth: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	9.7	0.8	502	14.2	1.7	340	› 9.8	1.6	1,131	››› 7.7	0.9
1-2 years	2,685	16.9	1.3	851	21.2	1.9	508	17.5	2.2	1,132	› 15.4	1.7
3-5 years	3,458	20.1	1.5	1,079	25.6	2.8	719	› 19.4	2.3	1,461	› 17.8	2.0
6-11 years	3,457	27.4	1.3	989	28.4	2.5	705	31.8	3.9	1,536	26.9	2.0
12-16 years	2,206	34.6	1.8	576	39.9	4.1	458	38.0	4.9	1,023	31.8	2.3
Total, age adjusted	13,913	26.0	0.9	3,997	29.7	1.9	2,730	28.6	2.0	6,283	› 24.4	1.2
Male												
Under 1 year	1,067	11.5	1.1	241	17.2	2.7	163	11.1 *	2.5	589	› 9.4	1.5
1-2 years	1,344	17.1	1.5	457	21.5	3.1	237	18.1	3.0	555	14.9	2.0
3-5 years	1,670	22.3	2.2	520	28.0	4.8	342	22.3	4.0	707	20.3	2.4
6-11 years	1,761	28.5	1.6	482	30.0	3.5	350	33.0	4.7	809	28.1	2.2
12-16 years	1,031	38.6	2.6	273	47.9	6.5	222	46.3	6.6	461	› 33.4	3.5
Total, age adjusted	6,873	28.1	1.1	1,973	33.2	2.9	1,314	32.1	3.0	3,121	› 25.7	1.3
Female												
Under 1 year	1,040	7.8	0.9	261	11.5	2.3	177	8.3 *	2.0	542	› 5.8	0.8
1-2 years	1,341	16.6	1.5	394	20.9	2.5	271	16.9	2.8	577	15.9	2.1
3-5 years	1,788	17.8	1.6	559	23.2	3.2	377	16.1	2.6	754	› 15.2	2.1
6-11 years	1,696	26.3	1.9	507	27.0	3.4	355	30.6	6.0	727	25.5	2.9
12-16 years	1,175	30.4	2.0	303	31.7	4.7	236	30.1	4.4	562	30.2	2.6
Total, age adjusted	7,040	23.9	1.1	2,024	26.2	2.0	1,416	25.1	2.6	3,162	22.9	1.5

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-206—Percent of infants and children with accident, injury, or poisoning requiring medical attention in past 12 months: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,106	1.9	0.3	502	2.1 *	0.6	340	1.8 *	0.9	1,130	2.0	0.4
1-2 years	2,689	12.9	0.8	851	11.3	1.8	510	10.6	2.0	1,134	14.6	1.3
3-5 years	3,465	11.4	0.9	1,083	12.5	1.8	720	9.6	2.1	1,462	11.9	1.1
6-11 years	3,466	15.0	1.5	992	8.1	1.2	708	11.4	2.3	1,539	›››17.7	2.0
12-16 years	2,215	15.4	1.3	576	8.3	1.7	460	13.9	4.0	1,029	›››17.8	1.7
Total, age adjusted	13,941	13.5	0.7	4,004	8.9	0.8	2,738	11.2	1.5	6,294	›››15.5	1.0
Male												
Under 1 year	1,066	1.6 *	0.4	241	1.4 *	1.0	163	1.4 *	0.9	588	1.8 *	0.4
1-2 years	1,347	13.7	1.2	457	11.6	1.9	239	9.8 *	2.4	556	15.8	1.7
3-5 years	1,675	12.8	1.4	523	13.7	3.1	342	12.2	3.6	708	12.8	1.8
6-11 years	1,768	16.0	1.9	484	9.9	2.2	352	15.4	4.2	812	› 17.3	2.4
12-16 years	1,036	18.3	2.0	273	10.0	3.0	223	17.6	5.7	465	›› 21.4	2.6
Total, age adjusted	6,892	15.0	1.0	1,978	10.3	1.3	1,319	14.0	2.5	3,129	›››16.7	1.2
Female												
Under 1 year	1,040	2.2 *	0.4	261	2.7 *	0.9	177	2.2 *	1.6	542	2.2 *	0.7
1-2 years	1,342	12.0	1.2	394	10.9	3.0	271	11.3 *	3.2	578	13.4	2.0
3-5 years	1,790	10.0	1.1	560	11.4	2.1	378	6.6 *	1.7	754	10.9	1.5
6-11 years	1,698	14.0	1.8	508	6.4	1.4	356	7.8 *	2.5	727	›››18.2	2.7
12-16 years	1,179	12.3	1.4	303	6.6	2.3	237	10.4 *	3.5	564	› 14.0	2.0
Total, age adjusted	7,049	11.9	0.7	2,026	7.6	1.0	1,419	8.4	1.5	3,165	›››14.2	1.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-207—Percent of infants and children ever diagnosed by doctor to have asthma: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	2.3	0.4	502	4.7 *	1.2	340	3.0 *	1.0	1,131	›› 1.4 *	0.3
1-2 years	2,687	5.5	0.5	851	10.8	1.1	509	7.8	1.6	1,133	››› 3.5	0.6
3-5 years	3,464	7.2	0.7	1,083	9.6	1.4	720	8.4	1.9	1,461	› 6.3	0.9
6-11 years	3,467	10.6	1.1	992	11.6	2.7	708	9.1	2.0	1,540	10.9	1.3
12-16 years	2,215	12.4	1.3	576	12.2	3.2	460	12.5	2.5	1,029	12.9	1.7
Total, age adjusted	13,940	9.5	0.6	4,004	11.0	1.4	2,737	9.4	1.3	6,294	9.3	0.8
Male												
Under 1 year	1,067	2.7	0.5	241	6.2 *	1.9	163	› 1.7 *	0.9	589	› 1.8 *	0.6
1-2 years	1,346	5.6	0.5	457	12.0	1.7	238	9.4 *	2.1	556	››› 2.6 *	0.7
3-5 years	1,674	8.7	1.0	523	8.4	1.8	342	8.4	2.1	707	9.0	1.5
6-11 years	1,768	11.9	1.2	484	10.5	3.2	352	10.4	3.2	812	12.8	1.4
12-16 years	1,036	14.1	2.0	273	15.9	5.5	223	14.6	4.3	465	14.6	2.6
Total, age adjusted	6,891	10.7	0.8	1,978	11.6	2.2	1,318	10.7	1.7	3,129	10.9	1.0
Female												
Under 1 year	1,040	1.9 *	0.5	261	3.2 *	1.0	177	4.4 *	1.9	542	0.8 *	0.5
1-2 years	1,341	5.4	0.9	394	9.3	1.8	271	6.4 *	2.3	577	› 4.4	1.1
3-5 years	1,790	5.7	0.8	560	10.6	2.6	378	8.2	2.4	754	›› 3.5	0.7
6-11 years	1,699	9.2	2.0	508	12.6	4.3	356	7.9	2.7	728	8.7	2.1
12-16 years	1,179	10.7	1.6	303	8.5 *	1.9	237	10.4	3.8	564	11.2	2.1
Total, age adjusted	7,049	8.2	0.9	2,026	10.2	1.7	1,419	8.3	1.7	3,165	7.6	1.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-208—Percent of infants and children ever diagnosed by doctor to have chronic bronchitis: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	2.2	0.4	502	3.6 *	0.8	340	2.3 *	0.7	1,131	›› 1.5 *	0.5
1-2 years	2,688	4.0	0.4	851	5.7	1.0	509	3.7	0.9	1,134	›› 2.9	0.5
3-5 years	3,464	3.8	0.4	1,083	5.7	1.3	720	4.2	0.9	1,461	› 2.8	0.4
6-11 years	3,467	3.5	0.6	992	5.4	1.5	708	3.8	1.2	1,540	3.0	0.8
12-16 years	2,216	5.8	1.0	577	6.4	1.5	460	3.6 *	1.5	1,029	6.2	1.4
Total, age adjusted	13,942	4.2	0.5	4,005	5.7	0.8	2,737	3.7	0.7	6,295	3.8	0.6
Male												
Under 1 year	1,067	2.1 *	0.5	241	4.3 *	1.2	163	1.8 *	1.1	589	› 1.3 *	0.6
1-2 years	1,346	3.1	0.5	457	5.2	1.0	238	4.6 *	1.8	556	›› 1.8 *	0.5
3-5 years	1,674	4.4	0.7	523	5.6	1.4	342	5.9	1.6	707	3.4	0.8
6-11 years	1,768	3.1	0.7	484	5.5	1.5	352	3.0 *	1.4	812	2.6 *	1.0
12-16 years	1,037	6.2	1.2	274	6.9 *	3.2	223	1.5 *	0.6	465	7.5	1.6
Total, age adjusted	6,892	4.2	0.5	1,979	5.8	1.2	1,318	3.2	0.8	3,129	4.0	0.7
Female												
Under 1 year	1,040	2.2 *	0.6	261	3.0 *	0.9	177	2.8 *	0.9	542	1.8 *	0.7
1-2 years	1,342	5.0	0.8	394	6.3	1.9	271	2.9 *	1.1	578	4.1	0.8
3-5 years	1,790	3.2	0.6	560	5.9	2.2	378	2.3 *	0.7	754	2.2 *	0.5
6-11 years	1,699	4.0	0.9	508	5.3	2.1	356	4.5 *	1.8	728	3.6	1.2
12-16 years	1,179	5.4	1.7	303	5.8 *	2.4	237	5.6 *	2.8	564	4.8	2.0
Total, age adjusted	7,050	4.3	0.7	2,026	5.5	1.1	1,419	4.1	1.0	3,166	3.6	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-209—Percent of infants and children ever diagnosed by doctor to have hay fever: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	0.7 *	0.2	502	1.3 *	0.6	340	› 0.0	0.0	1,131	0.8 *	0.3
1-2 years	2,689	1.6	0.4	851	1.4 *	0.6	510	>0	>0	1,134	2.1	0.6
3-5 years	3,464	3.1	0.4	1,083	2.2 *	0.7	720	1.9 *	0.7	1,461	› 3.9	0.6
6-11 years	3,467	6.0	0.8	992	3.5	1.1	708	4.1 *	1.6	1,540	› 7.0	1.1
12-16 years	2,216	11.5	1.2	577	7.1	2.1	460	9.4	3.0	1,029	›› 13.5	1.5
Total, age adjusted	13,943	6.3	0.5	4,005	4.0	0.8	2,738	4.6	1.2	6,295	›››7.5	0.7
Male												
Under 1 year	1,067	0.9 *	0.3	241	1.1 *	0.8	163	0.0	0.0	589	1.1 *	0.5
1-2 years	1,347	1.4 *	0.5	457	1.1 *	0.6	239	0.0	0.0	556	1.9 *	0.8
3-5 years	1,674	3.5	0.8	523	1.8 *	0.7	342	2.0 *	1.0	707	› 4.7	1.1
6-11 years	1,768	5.9	1.0	484	4.6 *	1.7	352	4.7 *	2.7	812	6.3	1.0
12-16 years	1,037	12.9	2.0	274	7.5 *	3.8	223	9.0 *	4.2	465	15.7	2.7
Total, age adjusted	6,893	6.8	0.8	1,979	4.4	1.3	1,319	4.7	1.5	3,129	› 8.0	1.0
Female												
Under 1 year	1,040	0.6 *	0.2	261	1.5 *	0.8	177	0.0	0.0	542	0.4 *	0.1
1-2 years	1,342	1.9 *	0.5	394	1.9 *	1.1	271	0.1 *	0.1	578	2.3 *	0.8
3-5 years	1,790	2.6	0.5	560	2.4 *	1.2	378	1.9 *	0.9	754	3.0	0.6
6-11 years	1,699	6.1	1.0	508	2.5 *	1.2	356	3.6 *	1.7	728	› 7.8	1.7
12-16 years	1,179	10.1	1.6	303	6.7 *	2.0	237	9.8 *	4.2	564	11.2	1.8
Total, age adjusted	7,050	5.9	0.6	2,026	3.6	0.8	1,419	4.5	1.6	3,166	›› 7.0	0.8

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
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Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-210—Percent of infants and children ever tested for lead poisoning: Ages 2 months to 16 years

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,065	2.2 *	0.4	493	2.9 *	0.9	331	1.4 *	0.6	1,112	2.1 *	0.6
1-2 years	2,634	10.1	1.2	841	19.1	2.1	497	›››8.5 *	1.8	1,104	›››6.9	1.2
3-5 years	3,401	10.2	1.4	1,054	20.0	1.9	713	›››9.9	2.1	1,440	›››6.9	1.6
6-11 years	3,360	8.2	1.3	970	18.8	3.4	690	› 8.7	2.0	1,482	›››5.3	1.1
12-16 years	2,162	8.3	1.5	572	14.2	3.1	453	13.2	5.0	994	›› 6.0	1.3
Total, age adjusted	13,622	8.5	1.0	3,930	16.8	1.7	2,684	›› 9.8	2.3	6,132	›››5.8	1.0
Male												
Under 1 year	1,048	2.6 *	0.5	239	3.1 *	1.2	158	› 0.2 *	0.2	580	2.9 *	0.8
1-2 years	1,323	10.6	1.5	452	18.8	2.4	235	› 11.2 *	3.0	543	›››6.8	1.6
3-5 years	1,649	10.3	1.6	511	21.7	2.5	340	›››9.5 *	2.7	699	›››6.8	2.0
6-11 years	1,710	7.6	1.3	470	16.4	3.3	344	9.1 *	2.9	781	›››5.4	1.1
12-16 years	1,006	9.1	1.9	272	19.2	5.0	219	14.6 *	7.7	445	›› 5.8 *	1.7
Total, age adjusted	6,736	8.6	1.2	1,944	17.7	2.2	1,296	› 10.5	2.8	3,048	›››5.8	1.2
Female												
Under 1 year	1,017	1.8 *	0.5	254	2.7 *	1.2	173	2.8 *	1.3	532	1.1 *	0.5
1-2 years	1,311	9.6	1.4	389	19.4	3.3	262	›››6.1 *	1.8	561	›››7.0	1.2
3-5 years	1,752	10.1	1.3	543	18.3	2.2	373	›› 10.3 *	2.7	741	›››7.0	1.6
6-11 years	1,650	8.8	1.8	500	20.8	4.8	346	› 8.3 *	3.1	701	›››5.3	1.4
12-16 years	1,156	7.5	1.3	300	9.1 *	2.2	234	11.8 *	3.0	549	6.2 *	1.6
Total, age adjusted	6,886	8.4	1.0	1,986	15.8	2.0	1,388	› 9.1	2.1	3,084	›››5.8	0.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-211—Percent of children ever reported to have high lead levels or lead poisoning: Ages 1-16 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,063	0.00	0.00	493	0.00	0.00	330	0.00	0.00	1,111	0.00	0.00
1-2 years	2,622	0.40 *	0.15	836	1.46 *	0.63	494	0.42 *	0.42	1,102	› 0.03 *	0.03
3-5 years	3,385	0.63	0.16	1,050	2.13	0.66	709	› 0.39 *	0.20	1,432	›› 0.06 *	0.04
6-11 years	3,356	0.31 *	0.13	969	1.34 *	0.68	690	0.10 *	0.10	1,480	0.05 *	0.04
12-16 years	2,161	0.60 *	0.24	572	1.08 *	0.46	453	2.50 *	1.44	994	› 0.07 *	0.05
Total, age adjusted	13,587	0.44	0.09	3,920	1.34	0.33	2,676	0.88	0.41	6,119	››› 0.05 *	0.03
Male												
Under 1 year	1,047	0.00	0.00	239	0.00	0.00	158	0.00	0.00	579	0.00	0.00
1-2 years	1,321	0.35 *	0.15	451	0.83 *	0.41	234	0.90 *	0.89	543	0.07 *	0.07
3-5 years	1,642	0.82 *	0.33	509	3.05 *	1.53	339	0.18 *	0.18	695	0.08 *	0.06
6-11 years	1,708	0.41 *	0.21	469	1.98 *	1.25	344	0.00	0.00	780	0.09 *	0.07
12-16 years	1,006	0.95 *	0.47	272	1.48 *	0.76	219	4.49 *	2.75	445	0.08 *	0.08
Total, age adjusted	6,724	0.61	0.17	1,940	1.78	0.59	1,294	1.45 *	0.80	3,042	›› 0.08 *	0.04
Female												
Under 1 year	1,016	0.00	0.00	254	0.00	0.00	172	0.00	0.00	532	0.00	0.00
1-2 years	1,301	0.46 *	0.26	385	2.26 *	1.28	260	0.00	0.00	559	0.00	0.00
3-5 years	1,743	0.42 *	0.17	541	1.22 *	0.53	370	0.62 *	0.37	737	› 0.05 *	0.04
6-11 years	1,648	0.21 *	0.10	500	0.79 *	0.48	346	0.19 *	0.19	700	0.00	0.00
12-16 years	1,155	0.24 *	0.12	300	0.68 *	0.42	234	0.60 *	0.47	549	0.07 *	0.07
Total, age adjusted	6,863	0.27	0.07	1,980	0.95 *	0.30	1,382	0.35 *	0.16	3,077	›› 0.03 *	0.02

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Percent is calculated over all children, including those not tested for lead poisoning.

Source: NHANES-III, 1988-94: Youth interview file. Total includes persons with missing food stamp participation or income.

Table D-212—Percent of children with high blood lead levels: Ages 1-16 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
1-2 years	1,911	7.95	1.29	657	17.03	3.12	360	›› 6.00	1.44	789	››› 4.50	0.99
3-5 years	2,713	5.03	1.02	922	13.48	2.62	580	››› 4.07	1.24	1,092	››› 1.59	0.70
6-11 years	2,929	2.69	0.46	874	9.32	1.83	620	›› 3.27	1.24	1,270	››› 0.62 *	0.21
12-16 years	1,908	1.26 *	0.28	513	4.80 *	1.71	413	› 0.54 *	0.23	872	› 0.69 *	0.38
Total, age adjusted	9,461	2.97	0.40	2,966	8.83	1.53	1,973	››› 2.52	0.45	4,023	››› 1.19	0.27
Male												
1-2 years	979	9.51	1.96	360	20.55	4.76	176	› 7.01 *	2.51	390	››› 4.75	1.33
3-5 years	1,320	5.16	1.04	441	16.61	3.74	288	››› 3.43 *	1.22	532	››› 1.14 *	0.40
6-11 years	1,493	3.61	0.83	430	14.69	3.12	309	›› 3.38 *	1.57	668	››› 0.76 *	0.37
12-16 years	900	1.89 *	0.59	250	5.84 *	2.18	198	› 0.87 *	0.48	395	› 1.34 *	0.75
Total, age adjusted	4,692	3.72	0.62	1,481	11.84	2.20	971	››› 2.70	0.59	1,985	››› 1.46	0.44
Female												
1-2 years	932	6.22	1.08	297	12.44 *	2.70	184	› 5.06 *	1.58	399	›› 4.22	1.06
3-5 years	1,393	4.90	1.16	481	10.70	2.50	292	4.82 *	2.05	560	››› 2.07 *	1.09
6-11 years	1,436	1.71 *	0.37	444	4.30 *	1.39	311	3.16 *	1.18	602	›› 0.46 *	0.18
12-16 years	1,008	0.57 *	0.46	263	3.67 *	2.84	215	0.23 *	0.24	477	0.00	0.00
Total, age adjusted	4,769	2.17	0.40	1,485	5.84	1.81	1,002	2.37	0.51	2,038	›› 0.89	0.22

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 High lead is identified as ≥ 10.0 mcg/dL. Source: CDC Report on Blood Levels in the U.S.: 1991-94. (CDC, 1997)

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-213—Percent of children with high blood lead levels, NHANES-III Phase I (1988-1991): Ages 1-16 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
1-2 years	924	11.1	2.0	285	22.5	5.8	181	› 8.5 *	2.6	398	›› 7.6	1.8
3-5 years	1,308	7.0	1.9	394	19.7	4.8	288	›› 5.5 *	2.1	555	›››3.0 *	1.4
6-11 years	1,584	3.5	0.9	397	13.1	3.8	351	5.2 *	2.9	725	›› 0.8 *	0.4
12-16 years	1,857	1.4 *	0.4	352	4.2 *	1.6	400	1.2 *	0.4	917	1.1 *	0.6
Total, age adjusted	21,403	4.5	0.6	3,000	11.7	2.6	4,246	6.7	1.1	12,193	›››3.3	0.4

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] High lead is identified as ≥ 10.0 mcg/dL. Source: CDC Report on Blood Levels in the U.S.: 1991-94. (CDC, 1997)

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-214—Percent of children with high blood lead levels, NHANES-III Phase II (1991-1994): Ages 1-16 years[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
1-2 years	987	5.9	1.4	372	13.6	3.5	179	›› 4.0 *	1.4	391	›› 2.4 *	1.0
3-5 years	1,405	3.4	0.9	528	9.7	2.7	292	›› 3.1 *	1.2	537	›››0.3 *	0.2
6-11 years	1,345	2.0 *	0.6	477	6.8 *	1.8	269	›› 1.9 *	0.9	545	›››0.4 *	0.2
12-16 years	2,073	0.6 *	0.3	577	2.3 *	1.5	505	0.3 *	0.2	863	0.4 *	0.3
Total, age adjusted	22,068	2.2	0.3	4,708	6.2	0.9	4,345	›› 3.5	0.6	11,678	›››1.3	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
[1] High lead is identified as ≥ 10.0 mcg/dL. Source: CDC Report on Blood Levels in the U.S.: 1991-94. (CDC, 1997)

Source: NHANES-III, 1988-94: Examination file. Total includes persons with missing food stamp participation or income.

Table D-215—Mean number of decayed, missing, and filled teeth: Ages 2 and over[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error	Sample size	Mean	Standard Error
Both sexes												
2 years	1,152	0.3	>0	385	0.6	0.1	213	0.5 *	0.2	484	›››0.1 *	>0
3-5 years	3,148	1.3	0.1	1,008	1.9	0.2	665	2.1	0.4	1,312	›››0.9	0.1
6-11 years	3,237	2.1	0.1	948	2.6	0.2	674	2.4	0.2	1,421	›››1.8	0.1
12-19 years	3,140	3.4	0.1	774	3.5	0.2	709	3.7	0.3	1,422	3.3	0.1
20-29 years	3,431	7.6	0.2	647	7.6	0.4	804	7.1	0.4	1,724	7.8	0.3
30-39 years	3,241	11.6	0.2	532	11.9	0.5	587	11.7	0.5	1,938	11.6	0.2
40-49 years	2,508	15.2	0.2	341	13.6	0.7	387	14.7	0.8	1,608	› 15.4	0.3
50-59 years	1,800	18.8	0.2	195	19.4	1.1	251	20.0	0.6	1,215	18.6	0.2
60-69 years	2,236	20.7	0.2	262	22.3	0.6	428	21.9	0.8	1,339	›› 20.4	0.3
70-79 years	1,700	22.1	0.2	152	21.6	0.9	356	23.2	0.4	1,033	21.8	0.2
80 + years	1,199	23.5	0.3	110	26.0	0.4	283	›››24.0	0.4	654	›››22.8	0.4
Total, age adjusted	26,792	11.8	0.1	5,354	11.9	0.2	5,357	12.0	0.2	14,150	11.7	0.1
Male												
2 years	594	0.2	>0	217	0.6	0.1	97	› 0.2 *	0.1	247	›› 0.1 *	>0
3-5 years	1,527	1.2	0.1	483	1.6	0.2	326	2.4	0.7	636	›››0.8	0.1
6-11 years	1,635	2.1	0.1	457	2.5	0.2	337	2.4	0.3	742	1.9	0.2
12-19 years	1,477	3.3	0.2	349	3.2	0.4	352	3.2	0.4	653	3.3	0.2
20-29 years	1,607	6.9	0.3	211	7.1	0.8	402	6.5	0.5	853	7.1	0.3
30-39 years	1,424	11.0	0.2	172	10.9	1.0	255	10.6	0.5	916	11.0	0.3
40-49 years	1,184	14.9	0.3	127	13.8	1.3	198	12.8	1.1	779	15.1	0.4
50-59 years	826	18.2	0.3	72	19.6 *	1.6	116	19.9	0.9	577	18.1	0.3
60-69 years	1,129	20.5	0.3	109	22.2	1.1	209	20.0	1.3	715	20.5	0.3
70-79 years	804	22.1	0.2	71	21.5 *	1.1	150	22.9	0.7	515	22.0	0.2
80 + years	582	23.8	0.3	48	25.2 *	0.8	110	24.1 *	0.5	362	› 23.5	0.4
Total, age adjusted	12,789	11.4	0.1	2,316	11.6	0.3	2,552	11.2	0.3	6,995	11.4	0.1
Female												
2 years	558	0.3	0.1	168	0.5	0.2	116	0.8 *	0.3	237	›› 0.1 *	>0
3-5 years	1,621	1.4	0.1	525	2.1	0.3	339	1.7	0.3	676	›››1.0	0.1
6-11 years	1,602	2.0	0.1	491	2.7	0.3	337	2.5	0.2	679	›››1.8	0.1
12-19 years	1,663	3.6	0.1	425	3.8	0.2	357	4.1	0.4	769	3.4	0.2
20-29 years	1,824	8.4	0.2	436	7.8	0.5	402	7.6	0.5	871	8.6	0.2
30-39 years	1,817	12.3	0.2	360	12.4	0.6	332	12.5	0.6	1,022	12.2	0.2
40-49 years	1,324	15.5	0.3	214	13.5	0.9	189	›› 16.7	0.8	829	› 15.8	0.3
50-59 years	974	19.3	0.2	123	19.3	1.4	135	20.0	0.7	638	19.1	0.3
60-69 years	1,107	20.9	0.3	153	22.4	0.6	219	23.3	0.6	624	›› 20.3	0.3
70-79 years	896	22.1	0.3	81	21.6 *	1.2	206	23.4	0.5	518	21.7	0.3
80 + years	617	23.4	0.3	62	26.3 *	0.6	173	›› 24.0	0.5	292	›››22.3	0.5
Total, age adjusted	14,003	12.1	0.1	3,038	12.0	0.3	2,805	› 12.7	0.2	7,155	12.0	0.1

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 For adults, table shows the sum of decayed, missing, and filled primary teeth due to any cause. For children, count includes the number of decayed and filled deciduous (baby) and primary teeth.
>0 Value to small to display.

Source: NHANES-III, 1988-94: Examination file. The dental exam was administered in the Mobile Exam Center; 2.8 percent of MEC respondents did not have a dental exam. Total includes persons with missing food stamp participation or income.

Table D-216—Percent of persons who ever visited a dentist or dental hygienist: Ages 2 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
2-5 years	1,328	15.9	1.4	419	11.6	1.6	244	11.8	2.7	584	› 18.6	2.1
6-11 years	3,436	57.1	1.5	1,077	52.1	3.0	709	46.8	3.6	1,452	›› 62.2	1.8
12-19 years	3,441	89.7	1.1	984	82.6	4.4	703	82.4	2.4	1,531	› 93.8	1.0
20-29 years	3,401	95.2	0.5	819	88.7	1.6	753	91.3	1.3	1,551	››› 97.5	0.7
30-39 years	3,760	96.1	0.5	669	92.6	1.8	866	93.8	1.2	1,924	›› 97.6	0.5
40-49 years	3,584	98.2	0.3	577	95.2 *	1.7	621	96.2	0.8	2,158	› 98.9	0.3
50-59 years	2,778	98.7	0.3	370	96.0 *	1.7	414	94.6 *	1.7	1,787	99.4 *	0.3
60-69 years	2,039	98.1	0.5	213	94.4 *	3.1	278	93.7 *	2.9	1,377	98.9 *	0.4
70-79 years	2,582	97.6	0.6	300	97.1 *	1.5	489	› 90.2	2.9	1,533	98.6	0.4
80 + years	2,122	96.3	0.9	194	91.0 *	2.4	445	94.1	1.7	1,254	›› 97.3	0.9
Total, age adjusted	30,188	93.6	0.3	5,758	89.8	1.1	5,940	89.4	0.8	16,037	››› 95.3	0.2
Male												
2-5 years	675	15.8	1.7	230	13.0 *	2.8	114	9.6 *	3.4	293	18.2	2.6
6-11 years	1,661	56.3	1.9	520	48.0	4.1	337	47.9	4.7	703	›› 61.3	2.1
12-19 years	1,756	88.1	1.7	481	79.5	6.3	350	78.2	4.0	806	› 92.4	1.6
20-29 years	1,596	95.2	0.5	370	86.1	2.5	367	88.8	2.3	714	››› 98.1 *	0.4
30-39 years	1,790	94.3	1.0	222	87.8 *	4.4	434	89.9	2.1	966	96.3	0.9
40-49 years	1,614	97.6	0.6	189	93.0 *	3.6	276	94.8 *	1.3	1,042	98.4 *	0.8
50-59 years	1,316	98.7 *	0.3	137	95.2 *	2.2	210	94.6 *	2.0	874	99.4 *	0.3
60-69 years	946	98.4 *	0.6	80	93.6 *	4.1	131	96.6 *	2.2	664	98.8 *	0.5
70-79 years	1,291	96.9	0.8	128	95.2 *	3.1	232	88.0	4.0	813	98.2 *	0.6
80 + years	978	96.5	1.0	80	88.6 *	4.8	182	95.2 *	2.6	626	96.9 *	1.2
Total, age adjusted	14,414	93.1	0.4	2,490	87.5	1.5	2,792	88.4	1.0	7,974	››› 94.8	0.3
Female												
2-5 years	653	16.0	2.4	189	9.7 *	2.3	130	13.6 *	4.2	291	›› 19.0	3.2
6-11 years	1,775	58.0	1.8	557	55.9	3.6	372	› 45.5	4.1	749	63.1	2.7
12-19 years	1,685	91.3	1.0	503	85.5	3.5	353	86.1	2.8	725	›› 95.4	0.9
20-29 years	1,805	95.2	0.8	449	90.7	1.5	386	93.5	1.4	837	›› 96.8	1.2
30-39 years	1,970	97.9	0.4	447	95.0 *	2.0	432	97.6 *	0.6	958	98.9 *	0.3
40-49 years	1,970	98.8 *	0.3	388	96.6 *	1.6	345	97.4 *	1.0	1,116	99.5 *	0.2
50-59 years	1,462	98.7 *	0.4	233	96.5 *	1.6	204	94.5 *	3.0	913	99.3 *	0.5
60-69 years	1,093	97.7 *	0.6	133	94.9 *	2.8	147	90.9 *	4.4	713	99.0 *	0.4
70-79 years	1,291	98.1 *	0.6	172	97.8 *	1.6	257	92.0 *	4.1	720	99.0 *	0.5
80 + years	1,144	96.2	1.1	114	92.2 *	3.0	263	93.7 *	2.0	628	97.6 *	1.0
Total, age adjusted	15,774	94.2	0.3	3,268	91.2	1.0	3,148	90.4	0.9	8,063	››› 95.7	0.3

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-217—Percent of persons who visited a dentist or dental hygienist within the past year: Ages 2 and over

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
2-5 years	1,328	15.2	1.4	419	11.4	1.7	244	11.8	2.7	584	› 17.5	2.0
6-11 years	3,436	53.6	1.6	1,077	48.4	3.1	709	43.6	4.1	1,452	›› 58.8	2.0
12-19 years	3,441	76.5	1.6	984	60.4	4.3	703	60.8	3.5	1,531	››› 84.7	1.4
20-29 years	3,401	74.6	1.4	819	61.2	2.9	753	60.8	2.7	1,551	››› 81.4	1.6
30-39 years	3,760	60.6	1.2	669	49.0	3.0	866	51.0	3.0	1,924	››› 65.4	1.3
40-49 years	3,584	68.2	1.6	577	43.3	3.3	621	52.5	4.8	2,158	››› 73.0	2.0
50-59 years	2,778	69.8	1.8	370	38.7	5.2	414	44.1	5.1	1,787	››› 74.5	2.0
60-69 years	2,039	64.2	1.9	213	36.4	5.5	278	43.7	4.4	1,377	››› 69.3	1.8
70-79 years	2,582	59.0	1.3	300	42.7	4.9	489	37.4	4.6	1,533	››› 63.1	1.7
80 + years	2,122	52.0	2.0	194	28.9	4.3	445	35.4	3.2	1,254	››› 57.8	2.1
Total, age adjusted	30,188	64.7	0.8	5,758	44.5	1.6	5,940	47.8	1.6	16,037	››› 70.3	0.8
Male												
2-5 years	675	14.4	1.8	230	13.0	2.8	114	9.6 *	3.4	293	16.0	2.7
6-11 years	1,661	52.2	2.0	520	45.0	3.7	337	43.7	5.6	703	›› 56.9	2.3
12-19 years	1,756	76.0	2.0	481	59.7	5.5	350	61.4	5.0	806	››› 82.9	2.2
20-29 years	1,596	73.2	1.9	370	61.7	4.1	367	57.6	3.6	714	››› 80.0	2.0
30-39 years	1,790	53.4	1.9	222	34.3	5.4	434	44.8	4.0	966	››› 58.3	2.0
40-49 years	1,614	61.3	2.5	189	27.9	6.8	276	41.5	6.3	1,042	››› 66.1	3.0
50-59 years	1,316	65.3	2.5	137	35.0	5.7	210	33.9	5.8	874	››› 69.8	3.0
60-69 years	946	64.4	3.2	80	31.4 *	9.5	131	44.2	7.9	664	››› 68.8	3.3
70-79 years	1,291	58.1	2.0	128	41.1	9.9	232	36.3	6.6	813	61.2	2.4
80 + years	978	51.6	2.4	80	25.4 *	9.8	182	33.4	4.7	626	›› 55.6	2.8
Total, age adjusted	14,414	61.6	0.9	2,490	38.3	1.8	2,792	› 43.2	2.0	7,974	››› 66.6	1.0
Female												
2-5 years	653	15.9	2.4	189	9.4 *	2.1	130	13.6 *	4.2	291	›› 19.0	3.2
6-11 years	1,775	55.1	1.9	557	51.7	3.7	372	43.6	4.2	749	› 60.7	2.8
12-19 years	1,685	77.0	1.8	503	61.0	4.6	353	60.2	5.9	725	››› 86.7	1.6
20-29 years	1,805	76.0	1.6	449	60.9	3.5	386	63.6	3.9	837	››› 82.8	2.0
30-39 years	1,970	67.7	1.6	447	56.4	4.9	432	57.0	4.4	958	›› 72.9	1.6
40-49 years	1,970	74.8	1.9	388	52.4	3.8	345	61.1	5.7	1,116	››› 80.0	2.2
50-59 years	1,462	74.0	1.8	233	41.1	6.8	204	53.4	7.0	913	››› 79.2	1.8
60-69 years	1,093	64.0	2.0	133	39.5	7.2	147	43.2	5.2	713	››› 69.8	1.8
70-79 years	1,291	59.8	1.9	172	43.4	6.4	257	38.3	5.6	720	›› 64.9	2.2
80 + years	1,144	52.3	2.0	114	30.6	4.5	263	36.2	4.4	628	››› 59.6	2.2
Total, age adjusted	15,774	67.7	0.9	3,268	48.0	2.2	3,148	51.8	2.1	8,063	››› 74.0	0.9

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-218—Percent of persons with any health insurance[1]

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,975	94.1	0.8	479	95.4 *	1.2	293	›››80.4	3.3	1,093	96.7	0.6
1-2 years	2,457	92.3	0.9	812	95.5	0.9	415	›››77.2	3.1	1,081	94.9	1.2
3-5 years	3,162	91.7	1.0	1,010	95.9	0.9	597	›››74.1	3.9	1,406	94.3	0.9
6-11 years	3,218	89.4	1.2	929	87.8	2.1	609	›››65.3	5.2	1,495	›› 95.1	1.0
12-19 years	3,281	84.0	1.4	792	79.6	2.7	717	›› 64.8	4.6	1,518	›››90.9	1.2
20-29 years	3,529	76.3	1.3	639	73.5	2.7	784	›››55.5	3.7	1,848	›› 82.3	1.6
30-39 years	3,425	86.3	1.1	553	71.3	3.6	563	›› 55.2	4.6	2,101	›››92.3	0.9
40-49 years	2,649	88.8	1.1	349	77.0	5.2	366	› 56.9	6.0	1,753	›› 93.0	0.9
50-59 years	1,971	89.8	1.4	200	72.5	4.2	251	61.9	5.0	1,366	›››94.2	1.1
60-69 years	2,511	95.4	0.7	287	86.4	2.8	468	89.6	2.2	1,521	›››97.7	0.6
70-79 years	2,133	99.4 *	0.2	196	97.8 *	1.0	446	99.2 *	0.5	1,262	› 99.9 *	0.1
80 + years	1,814	99.6 *	0.2	150	100.0 *	>0	444	99.5 *	0.3	915	100.0 *	>0
Total, age adjusted	32,125	88.1	0.8	6,396	80.6	1.6	5,953	›››66.6	2.5	17,359	›››92.7	0.6
Male												
Under 1 year	986	94.2	1.1	227	97.6 *	1.0	138	›››78.3 *	4.6	563	96.6 *	0.8
1-2 years	1,240	92.1	1.2	438	95.0 *	0.9	200	›››79.1	3.9	530	94.2	1.4
3-5 years	1,548	91.6	1.2	491	96.0 *	1.4	292	›››74.8	5.2	686	93.8	1.2
6-11 years	1,652	89.2	1.3	463	87.5	2.5	302	›››61.4	6.6	787	›› 95.2	1.4
12-19 years	1,552	84.9	1.7	359	80.7	2.5	353	› 66.0	6.3	704	›››91.2	1.7
20-29 years	1,655	70.1	1.9	207	54.1	6.3	378	51.1	4.9	926	›››76.7	2.3
30-39 years	1,509	86.0	1.3	171	67.2	6.2	238	51.1	7.2	1,005	›››91.4	1.1
40-49 years	1,254	89.1	1.3	128	71.8	7.2	185	57.4	7.6	858	›› 93.6	1.2
50-59 years	907	90.1	2.1	73	73.1 *	8.1	118	62.7 *	8.3	653	›› 94.0	1.7
60-69 years	1,255	95.6	0.9	119	80.1	6.8	225	87.7 *	3.9	806	›› 98.2 *	0.5
70-79 years	982	99.2 *	0.3	80	97.7 *	1.5	183	99.0 *	1.0	627	99.9 *	0.1
80 + years	825	99.8 *	0.2	57	99.8 *	0.2	169	98.9 *	0.9	483	100.0	0.0
Total, age adjusted	15,365	87.4	0.9	2,813	76.4	2.2	2,781	›››65.2	3.2	8,628	›››91.9	0.8
Female												
Under 1 year	989	94.0	0.8	252	93.5 *	2.0	155	› 82.6 *	3.6	530	96.9 *	0.7
1-2 years	1,217	92.5	1.1	374	96.1 *	1.3	215	›››75.6	3.8	551	95.5	1.5
3-5 years	1,614	91.8	1.0	519	95.8 *	0.8	305	›››73.2	4.2	720	94.9	1.0
6-11 years	1,566	89.6	1.6	466	88.1	2.6	307	›››68.7	5.7	708	› 95.1	1.1
12-19 years	1,729	83.1	1.7	433	78.7	3.9	364	› 63.5	4.9	814	›› 90.6	1.5
20-29 years	1,874	82.3	1.2	432	83.1	2.9	406	›››59.7	4.0	922	88.3	1.6
30-39 years	1,916	86.6	1.3	382	73.6	3.3	325	›› 58.2	4.9	1,096	›››93.1	1.2
40-49 years	1,395	88.5	1.3	221	80.4	5.1	181	›› 56.4	7.4	895	› 92.4	1.0
50-59 years	1,064	89.4	1.2	127	72.1	4.1	133	61.2 *	5.9	713	›››94.3	0.9
60-69 years	1,256	95.2	0.8	168	89.0 *	3.3	243	91.0 *	2.5	715	› 97.2 *	0.8
70-79 years	1,151	99.5 *	0.2	116	97.8 *	1.4	263	99.3 *	0.5	635	99.9 *	0.1
80 + years	989	99.5 *	0.2	93	100.0	0.0	275	99.7 *	0.2	432	100.0 *	>0
Total, age adjusted	16,760	88.8	0.8	3,583	82.9	1.7	3,172	›››67.6	2.4	8,731	›››93.5	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.
1 Health insurance includes any of Medicare, Medicaid, CHAMPUS/CHAMPVA/VA/military, or private health insurance. Percents may sum to more than 100 due to multiple sources of insurance.
>0 Value to small to display.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-219—Percent of persons with Medicaid

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,361	47.3	2.9	459	92.4	1.4	224	›››53.2	4.3	609	›››14.9	2.0
1-2 years	1,868	37.4	3.0	792	90.0	1.5	334	›››39.9	3.8	639	›››5.5	1.0
3-5 years	2,482	31.8	2.3	982	90.6	1.5	486	›››25.9	4.3	909	›››2.8	0.7
6-11 years	2,675	19.2	1.6	924	70.8	3.7	517	›››16.2	3.0	1,078	›››1.8	0.5
12-19 years	3,036	15.3	1.2	800	67.8	4.0	693	›››18.2	3.8	1,311	›››2.5	0.6
20-29 years	3,393	8.9	0.8	641	56.0	3.7	786	›››10.0	2.1	1,712	›››1.1	0.2
30-39 years	3,200	6.4	0.6	553	56.6	4.1	549	›››11.2	2.6	1,897	›››0.6 *	0.3
40-49 years	2,402	4.5	0.7	356	48.7	6.2	338	›››9.3 *	3.4	1,540	›››0.6 *	0.2
50-59 years	1,723	4.8	0.9	205	40.1	7.4	231	›› 14.1	3.4	1,157	›››0.6 *	0.4
60-69 years	2,134	7.1	0.9	273	55.5	3.9	386	›››16.9	3.8	1,279	›››2.1	0.5
70-79 years	1,779	10.9	1.0	178	65.1	5.4	379	›››18.1	3.1	1,033	›››5.6	1.1
80 + years	1,501	14.9	1.7	138	61.4	6.9	392	›››18.5	2.7	721	›››8.2	1.5
Total, age adjusted	27,554	11.5	0.6	6,301	59.4	2.1	5,315	›››15.4	1.7	13,885	›››2.1	0.2
Male												
Under 1 year	681	45.2	3.5	219	94.2 *	1.5	112	›››48.5 *	5.9	313	›››14.2	2.5
1-2 years	965	39.4	3.2	429	90.3	1.8	172	›››39.9	5.5	315	›››5.2	1.2
3-5 years	1,230	29.9	3.3	484	91.2	2.3	241	›››20.4	4.8	444	›››2.2 *	0.8
6-11 years	1,365	19.1	1.9	456	70.8	4.5	251	›››21.1	5.0	571	›››2.6	0.8
12-19 years	1,465	13.2	1.8	362	65.4	5.1	348	›››18.1	5.2	626	›››1.5 *	0.5
20-29 years	1,599	3.8	0.8	210	29.3	5.7	384	›››7.1 *	2.9	859	›››0.5 *	0.3
30-39 years	1,385	4.1	0.7	174	51.5	6.6	232	›››5.9 *	1.4	887	›››0.1 *	0.1
40-49 years	1,086	3.6	0.6	132	37.6	6.8	163	›››10.1 *	3.2	715	›››0.9 *	0.4
50-59 years	743	4.5	1.0	75	41.2 *	12.3	109	› 10.9 *	4.2	511	›› 1.0 *	0.8
60-69 years	1,032	5.5	1.0	115	52.7 *	7.5	174	›››14.8 *	5.5	662	›››2.3	0.8
70-79 years	722	9.7	1.5	67	61.7 *	8.5	139	›››15.2 *	3.6	446	›››6.1	1.4
80 + years	620	12.1	1.9	50	55.3 *	8.9	138	›››13.0 *	3.1	346	›››8.3	2.0
Total, age adjusted	12,893	9.7	0.6	2,773	52.7	2.7	2,463	›››13.6	1.4	6,695	›››2.0	0.3
Female												
Under 1 year	680	49.5	2.8	240	90.8 *	1.9	112	›››58.7 *	5.1	296	›››15.7	2.8
1-2 years	903	35.3	3.2	363	89.6	2.2	162	›››39.9	4.5	324	›››5.9	1.3
3-5 years	1,252	33.8	2.2	498	90.0	2.2	245	›››32.3	5.5	465	›››3.5	0.8
6-11 years	1,310	19.3	1.8	468	70.8	4.4	266	›››12.0 *	2.6	507	›››1.0 *	0.3
12-19 years	1,571	17.7	1.7	438	69.6	4.8	345	›››18.2	4.1	685	›››3.6	1.0
20-29 years	1,794	14.0	1.2	431	69.4	4.3	402	›››12.8	2.4	853	›››1.8	0.4
30-39 years	1,815	8.5	1.0	379	59.5	4.0	317	›››14.8	4.1	1,010	›››1.0 *	0.6
40-49 years	1,316	5.3	1.0	224	55.7	8.0	175	›››8.6 *	4.7	825	›››0.4 *	0.2
50-59 years	980	5.0	1.2	130	39.4	7.5	122	› 17.1 *	5.0	646	›››0.3 *	0.2
60-69 years	1,102	8.5	1.1	158	56.6	5.8	212	›››18.4	4.8	617	›››2.0 *	0.6
70-79 years	1,057	11.6	1.1	111	66.8 *	7.5	240	›››19.1	3.6	587	›››5.2	1.2
80 + years	881	16.2	1.9	88	63.3 *	7.5	254	›››20.5	3.4	375	›››8.2	1.5
Total, age adjusted	14,661	13.2	0.6	3,528	63.0	2.2	2,852	›››16.7	2.0	7,190	›››2.2	0.2

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-220—Percent of persons with private health insurance

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	1,805	70.5	3.4	367	22.2	4.8	268	›››46.0	5.9	1,073	›››90.7	1.6
1-2 years	2,250	71.4	2.7	650	22.9	4.3	393	›››49.6	4.5	1,072	›››91.2	1.7
3-5 years	2,942	72.8	2.8	813	23.9	4.5	581	›››53.3	5.4	1,399	›››91.4	1.4
6-11 years	3,098	74.9	2.5	829	27.8	4.3	593	›››49.6	5.0	1,489	›››91.7	1.8
12-19 years	3,249	71.7	1.9	750	18.3	3.1	715	›››52.4	4.3	1,529	›››87.0	1.6
20-29 years	3,545	67.2	1.6	623	23.8	4.4	792	›››43.5	3.9	1,861	›››80.1	1.6
30-39 years	3,425	79.0	1.4	536	20.2	3.2	564	›››41.6	4.5	2,115	›››89.5	1.2
40-49 years	2,636	83.6	1.3	339	30.9	5.5	364	45.1	6.0	1,751	›››91.1	1.2
50-59 years	1,971	83.4	1.8	199	34.6	6.1	252	42.1	5.2	1,364	›››91.4	1.5
60-69 years	2,435	81.5	1.8	263	24.3	5.8	449	›› 50.4	5.8	1,501	›››90.4	1.2
70-79 years	2,013	81.4	1.5	169	29.0 *	4.5	408	›››62.4	3.6	1,223	›››89.6	1.3
80 + years	1,708	76.6	1.6	135	28.4 *	5.8	408	›››63.0	3.8	883	›››88.3	1.1
Total, age adjusted	31,077	77.1	1.3	5,673	25.7	2.2	5,787	›››47.7	2.4	17,260	›››88.8	1.0
Male												
Under 1 year	912	71.1	3.4	179	19.9 *	5.0	129	›››45.7 *	7.2	554	›››91.2	1.6
1-2 years	1,139	70.1	2.8	357	22.5	5.1	188	›››50.0	6.5	529	›››90.6	2.1
3-5 years	1,427	74.8	2.8	385	28.0	5.4	281	›››55.7	7.2	682	›››91.1	1.7
6-11 years	1,592	75.1	2.4	416	28.8	4.7	294	›› 48.6	5.4	783	›››90.6	2.5
12-19 years	1,534	73.8	2.2	334	21.0	3.9	353	›››52.0	5.5	711	›››87.6	2.1
20-29 years	1,678	64.9	2.0	205	26.1	5.8	388	40.1	4.9	932	›››74.8	2.3
30-39 years	1,518	81.2	1.4	165	17.5 *	4.3	240	›› 44.2	6.8	1,017	›››89.6	1.0
40-49 years	1,247	83.7	1.6	128	32.0 *	7.2	182	41.9	7.6	853	›››90.9	1.7
50-59 years	906	83.2	2.8	72	41.4 *	7.2	118	40.1 *	7.8	652	›››90.1	2.7
60-69 years	1,222	81.8	1.9	113	19.8 *	6.1	216	›› 44.7	7.0	793	›››89.8	1.2
70-79 years	912	82.2	1.9	66	34.8 *	11.1	161	50.4	5.4	600	›››89.1	1.8
80 + years	758	78.9	2.0	49	30.6 *	10.8	147	›› 59.2 *	6.3	459	›››88.5	1.7
Total, age adjusted	14,845	77.6	1.3	2,469	27.2	2.6	2,697	›››45.7	2.8	8,565	›››87.8	1.2
Female												
Under 1 year	893	69.7	3.7	188	24.3 *	6.2	139	›› 46.4 *	6.1	519	›››90.2	2.2
1-2 years	1,111	72.7	3.1	293	23.5	4.6	205	›››49.4	5.9	543	›››91.9	2.0
3-5 years	1,515	70.7	3.3	428	20.4	4.9	300	›››50.4	5.8	717	›››91.7	1.6
6-11 years	1,506	74.6	3.1	413	26.9	4.9	299	›››50.5	7.0	706	›››92.9	1.5
12-19 years	1,715	69.6	2.7	416	16.2	3.2	362	›››52.7	5.1	818	›››86.3	2.2
20-29 years	1,867	69.4	1.8	418	22.6	4.6	404	›››46.7	4.8	929	›››85.7	1.6
30-39 years	1,907	76.9	1.9	371	21.7	4.2	324	›› 39.7	4.8	1,098	›››89.3	1.8
40-49 years	1,389	83.5	1.5	211	30.1	5.6	182	48.0	7.5	898	›››91.2	1.1
50-59 years	1,065	83.6	1.8	127	30.4 *	7.1	134	44.0 *	6.0	712	›››92.6	1.0
60-69 years	1,213	81.2	2.0	150	26.3 *	8.0	233	›› 54.9	5.6	708	›››91.0	1.6
70-79 years	1,101	80.9	1.6	103	26.0 *	5.6	247	›››67.0	4.1	623	›››90.1	1.5
80 + years	950	75.4	2.0	86	27.7 *	5.7	261	›››64.4	3.6	424	›››88.2	1.7
Total, age adjusted	16,232	76.6	1.4	3,204	24.7	2.3	3,090	›››49.2	2.4	8,695	›››89.8	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-221—Percent of persons with a regular source of health care

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	96.7	0.5	502	96.6 *	0.9	340	›› 92.4 *	1.4	1,131	97.9	0.4
1-2 years	2,689	95.3	0.6	851	93.9	1.2	510	› 89.4	1.9	1,134	›› 97.6	0.6
3-5 years	3,465	94.1	0.5	1,083	93.4	1.3	720	››› 84.7	1.9	1,462	› 96.9	0.5
6-11 years	3,467	91.3	0.9	992	88.5	1.6	708	83.4	2.8	1,540	› 93.8	1.2
12-19 years	3,441	81.2	1.4	828	78.6	2.8	761	70.5	4.3	1,568	› 85.2	1.4
20-29 years	3,783	64.5	1.2	676	68.8	3.2	874	›› 54.5	3.0	1,931	66.1	1.7
30-39 years	3,593	74.9	1.4	578	76.1	2.8	623	›› 64.1	3.6	2,164	75.9	1.5
40-49 years	2,794	80.9	1.5	372	78.2	3.3	416	70.6	4.4	1,796	82.2	1.6
50-59 years	2,056	82.7	1.2	219	79.6	4.1	279	77.7	4.4	1,384	83.9	1.3
60-69 years	2,608	88.5	1.0	306	86.5	4.7	497	84.1	3.3	1,540	90.7	1.0
70-79 years	2,156	93.1	0.8	197	92.6 *	2.3	452	89.7	2.1	1,268	93.7	1.0
80 + years	1,831	93.3	0.7	151	92.5 *	2.5	446	93.0	1.0	918	94.7	0.7
Total, age adjusted	33,990	81.8	0.6	6,755	81.0	1.1	6,626	››› 73.6	1.6	17,836	› 83.6	0.6
Male												
Under 1 year	1,067	96.9	0.7	241	97.2 *	1.0	163	› 92.0 *	2.1	589	98.1 *	0.6
1-2 years	1,347	96.3	0.6	457	94.4	1.2	239	91.8 *	2.2	556	›› 98.5 *	0.7
3-5 years	1,675	94.6	0.6	523	94.3	1.4	342	› 87.2	2.3	708	96.6	0.7
6-11 years	1,768	92.0	1.1	484	90.8	1.8	352	83.3	3.6	812	94.3	1.4
12-19 years	1,622	77.4	1.8	373	79.8	3.2	374	69.4	5.2	725	79.4	2.0
20-29 years	1,801	50.4	1.6	225	52.0	5.5	437	40.7	4.3	971	51.8	2.2
30-39 years	1,619	66.2	1.8	190	66.2	4.6	276	57.0	5.6	1,046	66.8	2.0
40-49 years	1,325	75.6	2.1	139	58.9	7.9	211	65.0	5.1	878	› 77.9	2.0
50-59 years	952	76.9	2.1	82	69.3 *	7.2	131	67.5	7.9	666	78.7	2.1
60-69 years	1,298	87.1	1.5	130	78.6	7.1	236	80.3	5.1	813	89.5	1.4
70-79 years	993	91.4	1.2	81	93.9 *	2.5	184	›› 79.5	5.1	632	92.6	1.4
80 + years	825	92.0	1.1	57	93.8 *	3.5	168	86.4 *	2.0	483	94.6	1.1
Total, age adjusted	16,292	76.6	0.7	2,982	73.1	1.9	3,113	› 67.7	2.0	8,879	›› 78.3	0.8
Female												
Under 1 year	1,040	96.6	0.7	261	96.1 *	1.4	177	93.0 *	2.0	542	97.6 *	0.7
1-2 years	1,342	94.2	0.9	394	93.2	2.0	271	87.4	3.1	578	96.6 *	1.1
3-5 years	1,790	93.6	0.7	560	92.4	1.8	378	›› 81.8	3.3	754	› 97.2	0.6
6-11 years	1,699	90.5	1.1	508	86.5	2.3	356	83.5	3.8	728	› 93.4	1.3
12-19 years	1,819	85.1	1.5	455	77.6	3.6	387	71.4	4.9	843	››› 91.4	1.2
20-29 years	1,982	78.2	1.3	451	77.2	3.2	437	68.0	4.0	960	81.4	1.7
30-39 years	1,974	83.2	1.6	388	82.0	3.1	347	› 69.7	4.8	1,118	85.2	1.9
40-49 years	1,469	85.9	1.5	233	90.4 *	2.1	205	› 75.8	6.3	918	86.4	1.7
50-59 years	1,104	88.1	1.2	137	86.1 *	2.8	148	87.6 *	3.3	718	88.9	1.3
60-69 years	1,310	89.7	1.2	176	89.7 *	4.7	261	87.0	3.1	727	91.8	1.3
70-79 years	1,163	94.2	0.8	116	92.0 *	3.4	268	94.0 *	2.1	636	94.6	1.2
80 + years	1,006	94.0	1.0	94	92.1 *	3.7	278	95.5 *	1.2	435	94.8	1.2
Total, age adjusted	17,698	86.8	0.5	3,773	85.4	1.0	3,513	››› 78.7	1.9	8,957	››› 89.1	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-222—Percent of persons who see a particular doctor

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,107	84.7	1.1	502	79.2	2.1	340	76.1	2.1	1,131	›››89.0	1.5
1-2 years	2,689	81.2	1.3	851	72.1	2.3	510	66.9	3.3	1,134	›››88.3	1.3
3-5 years	3,464	77.5	1.8	1,082	70.1	3.1	720	66.1	4.1	1,462	›››83.2	2.0
6-11 years	3,466	74.4	2.0	992	64.6	3.8	707	63.6	4.2	1,540	›› 79.4	2.4
12-19 years	3,440	66.0	1.5	828	59.2	3.8	761	55.6	4.3	1,567	›› 71.5	1.7
20-29 years	3,783	49.5	1.5	676	43.9	3.2	874	37.5	2.8	1,931	› 53.0	2.0
30-39 years	3,592	61.4	1.7	578	50.9	3.3	623	45.0	3.6	2,164	›››64.6	2.0
40-49 years	2,794	69.2	1.7	372	63.4	3.5	416	52.2	5.5	1,796	› 71.4	1.8
50-59 years	2,055	73.6	1.6	219	67.2	4.0	279	64.6	5.1	1,383	75.3	1.7
60-69 years	2,608	81.2	1.3	306	73.5	5.2	497	77.6	3.3	1,540	83.4	1.3
70-79 years	2,153	87.4	1.1	196	87.1 *	3.4	451	84.5	2.4	1,268	88.5	1.3
80 + years	1,828	89.2	1.0	151	86.5 *	2.8	446	87.6	1.5	915	91.4	1.1
Total, age adjusted	33,979	69.5	1.0	6,753	62.6	1.4	6,624	58.2	1.8	17,831	›››72.8	1.1
Male												
Under 1 year	1,067	84.0	1.7	241	80.5	3.2	163	72.1	3.7	589	87.7	2.3
1-2 years	1,347	81.6	1.6	457	71.1	3.3	239	66.6	4.0	556	›››89.2	1.6
3-5 years	1,675	76.9	2.5	523	66.6	5.4	342	69.5	5.8	708	›› 82.0	2.8
6-11 years	1,768	75.1	2.1	484	67.1	3.7	352	69.8	4.4	812	› 78.4	2.7
12-19 years	1,621	62.8	2.0	373	58.0	4.8	374	55.2	6.2	724	66.8	2.1
20-29 years	1,801	36.2	1.8	225	32.2	7.4	437	26.4	3.8	971	38.2	2.4
30-39 years	1,619	52.6	1.9	190	37.8	6.1	276	34.7	5.1	1,046	›› 55.8	2.1
40-49 years	1,325	62.5	2.6	139	48.5	7.6	211	42.6	4.6	878	› 65.5	2.7
50-59 years	951	67.7	2.5	82	62.9 *	6.8	131	54.5	7.1	665	69.5	2.8
60-69 years	1,298	77.9	2.0	130	60.6	9.2	236	69.3	5.9	813	› 80.6	2.0
70-79 years	991	83.8	1.7	80	82.5 *	5.7	183	71.7	5.5	632	86.1	1.8
80 + years	823	87.6	1.4	57	84.0 *	5.5	168	80.8	2.9	481	91.5	1.4
Total, age adjusted	16,286	63.9	1.2	2,981	54.9	2.2	3,112	51.5	2.2	8,875	›››67.0	1.3
Female												
Under 1 year	1,040	85.5	1.3	261	77.9	2.9	177	80.4	3.2	542	›››90.4	1.4
1-2 years	1,342	80.7	1.9	394	73.3	3.3	271	67.2	4.5	578	›››87.3	2.1
3-5 years	1,789	78.1	2.0	559	73.3	3.6	378	› 62.3	3.8	754	›› 84.5	2.2
6-11 years	1,698	73.6	2.5	508	62.5	4.9	355	58.2	5.8	728	›› 80.5	3.1
12-19 years	1,819	69.3	1.9	455	60.0	4.2	387	56.0	5.1	843	›››76.5	2.1
20-29 years	1,982	62.5	1.7	451	49.8	3.8	437	48.4	4.1	960	›››68.6	2.1
30-39 years	1,973	69.9	2.1	388	58.8	4.0	347	53.0	5.0	1,118	›› 73.6	2.6
40-49 years	1,469	75.6	1.5	233	72.8	5.5	205	61.0	7.4	918	77.3	1.8
50-59 years	1,104	79.1	1.8	137	69.9	4.4	148	74.4	5.6	718	› 80.9	1.8
60-69 years	1,310	84.0	1.2	176	78.8	4.9	261	84.0	2.9	727	86.1	1.3
70-79 years	1,162	90.0	1.3	116	89.4 *	3.6	268	89.8 *	2.7	636	90.6	1.7
80 + years	1,005	90.1	1.4	94	87.4 *	4.0	278	90.2 *	1.8	434	91.3	1.9
Total, age adjusted	17,693	74.8	0.9	3,772	66.9	2.0	3,512	63.6	2.0	8,956	›››78.8	1.0

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.

Table D-223—Percent of persons who saw a doctor within the past year

	Total Persons			Currently Receiving Food Stamps			Income-eligible Nonparticipants			Higher-income Nonparticipants		
	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error	Sample size	Percent	Standard Error
Both sexes												
Under 1 year	2,106	99.7 *	0.1	502	99.1 *	0.5	340	99.3 *	0.4	1,130	100.0	0.0
1-2 years	2,684	96.8	0.4	851	96.0	0.7	506	94.9	0.9	1,133	97.6	0.6
3-5 years	3,460	89.5	0.9	1,080	88.4	1.6	719	› 82.2	2.2	1,462	91.4	1.0
6-11 years	3,458	75.6	1.7	988	72.1	3.0	705	71.3	2.9	1,538	77.8	2.4
12-19 years	3,416	72.2	1.4	826	71.8	2.4	752	67.6	4.0	1,558	73.7	1.5
20-29 years	3,747	71.6	1.3	673	80.3	2.6	866	›› 65.5	3.0	1,909	› 72.6	1.9
30-39 years	3,572	72.1	1.2	573	73.1	3.6	620	› 60.8	3.5	2,153	73.9	1.4
40-49 years	2,774	73.0	1.4	369	79.2	4.1	412	68.4	4.4	1,784	73.3	1.5
50-59 years	2,038	75.4	1.3	217	76.8	6.0	279	72.2	4.5	1,371	76.0	1.2
60-69 years	2,593	83.3	1.0	303	86.6	3.8	495	82.0	3.0	1,532	83.2	1.2
70-79 years	2,134	87.1	0.9	192	86.4	4.4	448	83.7	2.5	1,260	88.0	1.0
80 + years	1,793	90.5	0.8	148	90.7 *	3.1	438	89.2	1.4	900	91.4	1.0
Total, age adjusted	33,775	77.0	0.5	6,722	79.1	1.5	6,580	››› 71.7	1.3	17,730	78.0	0.5
Male												
Under 1 year	1,066	99.8 *	0.1	241	99.3 *	0.6	163	99.5 *	0.5	588	100.0 *	0.0
1-2 years	1,345	96.8	0.6	457	96.2 *	1.1	237	93.5 *	1.5	556	97.4 *	0.9
3-5 years	1,674	90.5	1.0	523	89.0	2.2	342	84.0	3.2	708	92.2	1.1
6-11 years	1,763	76.5	2.2	483	74.2	4.4	349	72.9	4.0	811	77.8	2.9
12-19 years	1,609	66.4	1.9	372	67.0	4.0	369	59.7	4.8	719	68.0	2.2
20-29 years	1,773	55.6	2.1	225	63.7	4.7	432	53.9	4.8	951	56.4	2.9
30-39 years	1,606	63.3	2.2	189	57.9	7.0	275	53.4	6.2	1,037	65.0	2.2
40-49 years	1,316	65.4	2.4	138	78.4	4.7	209	64.2	5.9	873	› 65.2	2.5
50-59 years	942	70.0	1.8	80	67.6 *	14.6	131	62.6	7.7	659	70.8	1.7
60-69 years	1,288	81.7	1.5	127	80.8 *	5.5	234	80.8	3.8	809	81.7	1.7
70-79 years	983	84.2	1.6	79	76.7 *	10.2	182	74.9	5.4	628	85.7	1.6
80 + years	810	88.4	1.3	56	92.9 *	3.4	166	› 85.1	2.6	473	89.4	1.7
Total, age adjusted	16,175	70.8	0.7	2,970	72.2	2.7	3,089	› 65.9	1.7	8,812	71.8	0.8
Female												
Under 1 year	1,040	99.6 *	0.2	261	98.9 *	0.9	177	99.1 *	0.7	542	100.0	0.0
1-2 years	1,339	97.0	0.7	394	95.7 *	1.1	269	96.0 *	1.3	577	97.7 *	0.8
3-5 years	1,786	88.4	1.3	557	87.9	2.0	377	80.1	3.6	754	90.6	1.5
6-11 years	1,695	74.7	2.1	505	70.3	3.5	356	69.9	4.0	727	77.8	2.8
12-19 years	1,807	78.2	1.7	454	75.5	2.9	383	75.0	5.0	839	79.8	2.1
20-29 years	1,974	87.2	0.9	448	88.8	2.4	434	›› 76.9	3.1	958	89.6	1.7
30-39 years	1,966	80.6	1.6	384	82.3	2.3	345	›› 66.5	3.9	1,116	82.9	1.8
40-49 years	1,458	80.2	1.3	231	79.6	4.9	203	72.1	6.7	911	81.4	1.8
50-59 years	1,096	80.3	1.6	137	82.5 *	4.0	148	81.4	3.7	712	81.1	1.6
60-69 years	1,305	84.7	1.4	176	89.0 *	3.8	261	82.9	4.1	723	84.6	1.5
70-79 years	1,151	89.2	1.1	113	91.2 *	3.6	266	87.3	2.2	632	90.1	1.4
80 + years	983	91.6	1.2	92	89.9 *	4.0	272	90.7	1.8	427	92.7	1.4
Total, age adjusted	17,600	82.8	0.4	3,752	83.0	1.3	3,491	›› 76.7	1.5	8,918	84.4	0.6

Notes: * Denotes individual estimates not meeting the standards of reliability or precision due to inadequate cell size or large coefficient of variation.
Significant differences in means and proportions are noted by › (.05 level), ›› (.01 level), or ››› (.001 level). Differences are tested in comparison to FSP participants.

Source: NHANES-III, 1988-94: Adult and youth interview files. Total includes persons with missing food stamp participation or income.